

PLANTS OF EAST SUTHERLAND

vc. 107

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Containing records up to the end of 2015

The flora is updated every year, so that you can see what we do and don't know at any given moment, and focus your recording accordingly. You can see your contributed records straight away. Errors can be corrected as soon as they are noticed. New developments in data management can be incorporated. And so on.

All of the information relating to East Sutherland from John Anthony's *Flora of Sutherland* (Kenworthy, 1976) is included here (covering the parishes of Clyne, Creich, Dornoch, Golspie, Kildonan, Laird, Loth and Rogart). The people who helped John Anthony included Derek Radcliffe (mountain plants from the west of the vice county), A.G. Kenneth and Peter Sell (*Hieracium*), Peter Yeo (*Euphrasia*), E.S. Edees (*Rubus*), J.R. Matthews (*Rosa*) and Ursula Duncan (plant lists from remote areas). All of the hectad (10km square) data from the Botanical Society of the British Isles recording schemes up to 2010 are also included; to the BSBI and all the contributors, many thanks.

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For an **index** to the text, use “ Shift Ctrl F ” then enter the word(s) you want to find

A botanical guide to East Sutherland

When Hewett Cottrell Watson created the vice-county map of Great Britain in 1852, he defined East Sutherland (vc. 107) on the basis of the river catchments that drain directly or indirectly into the Moray Firth. The rest of the administrative county of Sutherland he called West Sutherland (vc. 108), even though this includes all of the county's north coast. Caithness (vc. 109) he left much as it was. As a result of Watson's definition, all of the rivers of vc. 107 drain roughly eastwards: R. Helmsdale enters the sea at Helmsdale, Loth Burn at Lothbeg, R. Brora at Brora, Golspie Burn at Golspie, R. Fleet at Loch Fleet, R. Evelix on the Dornoch Firth at Meikle Ferry, R. Cassley flows into the Kyle of Sutherland at Rosehall, and the R. Oykel forms the southern boundary of the vice county all the way from the lofty ridges of Conival to Bonar Bridge.

We begin on the coast, and travel southwards from Ord of Caithness to Dornoch Point:



Ord of Caithness. Recent road works with *Anthriscus sylvestris*, *Carex binervis*, *Carex echinata*, *Cerastium fontanum*, *Chamerion angustifolium*, *Cirsium arvense*, *Cirsium vulgare*, *Cochlearia officinalis* subsp. *officinalis*, *Crepis capillaris*, *Cytisus scoparius*, *Dactylis glomerata*, *Digitalis purpurea*, *Erica cinerea*, *Festuca rubra*, *Galium saxatile*, *Heracleum sphondylium*, *Holcus lanatus*,

Holcus mollis, *Hypochaeris radicata*, *Juncus effusus*, *Leontodon autumnalis*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Luzula sylvatica*, *Plantago lanceolata*, *Plantago major*, *Poa annua*, *Poa pratensis*, *Potentilla erecta*, *Pteridium aquilinum*, *Ranunculus repens*, *Rhinanthus minor*, *Rumex acetosa*, *Rumex longifolius*, *Rumex obtusifolius*, *Sagina procumbens*, *Senecio jacobaea*, *Sonchus asper*, *Sorbus aucuparia* and *Ulex europaeus*. Stanley Howe.



Coastal heath vegetation on Ord of Caithness (Steven Brown) with *Calluna vulgaris*, *Carex binervis*, *Deschampsia flexuosa*, *Drosera rotundifolia*, *Empetrum nigrum* subsp. *nigrum*, *Erica tetralix*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Juncus squarrosus*, *Luzula sylvatica*, *Trichophorum germanicum* and *Vaccinium myrtillus*. In the far north-east, the coast is of shingle, rising in cliffs at the Ord of Caithness [ND 057 178], where once were found *Primula scotica*, *Mertensia maritima* and *Vaccinium oxycoccus*, all sadly now long gone.



The old A9 bridge over Ord Burn at the hairpin south of Ord of Caithness (now by-passed). Stanley Howe. The steep wooded streamside has *Angelica sylvestris*, *Athyrium filix-femina*, *Betula pubescens*, *Betula pubescens* subsp. *tortuosa*, *Blechnum spicant*, *Cardamine flexuosa*, *Cardamine pratensis*, *Chrysosplenium oppositifolium*, *Cirsium palustre*, *Digitalis purpurea*, *Dryopteris affinis* subsp. *borreri*, *Equisetum sylvaticum*, *Gymnocarpium dryopteris*, *Lathyrus linifolius*, *Lonicera periclymenum*, *Luzula pilosa*, *Luzula sylvatica*, *Myrica gale*, *Oxalis acetosella*, *Polypodium vulgare*, *Primula vulgaris*, *Ranunculus ficaria*, *Salix aurita*, *Sorbus aucuparia*, *Vaccinium myrtillus*, *Vicia sepium*, *Viola palustris* and *Viola riviniana*.



Navidale Bay from the old graveyard. Sylvia Duckworth. The wooded cliffs below the Navidale House Hotel (top right) have *Aconitum x stoerkianum*, *Aegopodium podagraria*, *Anaphalis margaritacea*, *Angelica sylvestris*, *Anthoxanthum odoratum*, *Anthriscus sylvestris*, *Arabidopsis thaliana*, *Arrhenatherum elatius*, *Athyrium filix-femina*, *Bellis perennis*, *Betula pubescens*, *Cardamine pratensis*, *Carex ovalis*, *Centaurea nigra*, *Cerastium fontanum*, *Cerastium glomeratum*, *Cirsium palustre*, *Cirsium vulgare*, *Conopodium majus*, *Corylus avellana*, *Crataegus monogyna*, *Crocsmia x crocosmiiflora*, *Cytisus scoparius*, *Dactylorhiza purpurella*, *Dactylorhiza x formosa*, *Deschampsia flexuosa*, *Digitalis purpurea*, *Dryopteris filix-mas*, *Epilobium montanum*, *Festuca rubra*, *Fraxinus excelsior*, *Fuchsia magellanica*, *Galium aparine*, *Geranium pratense*, *Holcus lanatus*, *Hyacinthoides x massartiana*, *Hypochaeris radicata*, *Lamium amplexicaule*, *Lamium purpureum*, *Lathyrus linifolius*, *Leucanthemum vulgare*, *Leucanthemum x superbum*, *Lonicera periclymenum* 'Belgica', *Lupinus x regalis*, *Luzula sylvatica*, *Myosotis arvensis*, *Pentaglottis sempervirens*, *Pilosella aurantiaca* subsp. *carpathicola*, *Pinus nigra*, *Plantago lanceolata*, *Potentilla erecta*, *Prunus spinosa*, *Pteridium aquilinum*, *Rhododendron ponticum*, *Rumex acetosa*, *Rumex obtusifolius*, *Sagina procumbens*, *Salix aurita*, *Salix cinerea* subsp. *oleifolia*, *Sambucus nigra*, *Scrophularia auriculata*, *Senecio jacobaea*, *Silene latifolia* subsp. *alba*, *Sonchus asper*, *Sorbus aucuparia*, *Sorbus intermedia*, *Stellaria graminea*, *Stellaria holostea*, *Stellaria media*, *Symphoricarpos albus*, *Symphytum x uplandicum*, *Tanacetum vulgare*, *Thymus polytrichus*, *Ulex europaeus*, *Urtica dioica*, *Vaccinium myrtillus*, *Veronica chamaedrys* and *Vicia sepium*. Below a dry stone wall in the hotel grounds grows a luxuriant stand of the very local and rare *Parietaria officinalis*.



Helmsdale, looking inland up Lilleshall Street from Dunrobin Street. David Gearing. Gorse and bracken on the hillside behind the town. The town of Helmsdale has several southern urban species like *Anisantha sterilis*, *Conium maculatum*, *Hordeum murinum*, *Malva sylvestris*, *Senecio viscosus*, *Torilis japonica*, *Veronica hederifolia* with *Linaria vulgaris* on the railway.



Shore Street in Helmsdale, with the new A9 bypass bridge in the middle distance on the left. Stanley Howe. Here grow *Acer pseudoplatanus*, *Agrostis capillaris*, *Alnus glutinosa*, *Anthriscus sylvestris*, *Arabidopsis thaliana*, *Athyrium filix-femina*, *Atriplex prostrata*, *Aubrieta deltoidea*, *Bellis perennis*, *Campanula glomerata*, *Cardamine hirsuta*, *Centaurea nigra*, *Cerastium fontanum*, *Cerastium glomeratum*, *Chamerion angustifolium*, *Cirsium vulgare*, *Cotoneaster simonsii*, *Crepis capillaris*, *Crocossia x crocosmiiflora*, *Cytisus scoparius*, *Digitalis purpurea*, *Dryopteris filix-mas*, *Epilobium montanum*, *Equisetum arvense*, *Erophila verna*, *Festuca rubra*, *Galium aparine*, *Hedera helix*, *Hesperis matronalis*, *Lamium maculatum*, *Lapsana communis*, *Leucanthemum vulgare*, *Leymus arenarius*, *Limnanthes douglasii*, *Lobularia maritima*, *Lupinus x regalis*, *Malva moschata*, *Malva sylvestris*, *Meconopsis cambrica*, *Phalaris arundinacea* 'Picta', *Pilosella aurantiaca* subsp. *carpathicola*, *Plantago lanceolata*, *Plantago major*, *Poa pratensis*, *Ranunculus repens*, *Rosa rugosa*, *Rumex crispus*, *Sagina procumbens*, *Saxifraga hypnoides*, *Saxifraga x urbium*, *Senecio jacobaea*, *Senecio vulgaris*, *Silene latifolia* subsp. *alba*, *Tanacetum parthenium*, *Tragopogon pratensis* subsp. *minor*, *Trifolium dubium*, *Trifolium pratense*, *Trifolium repens*, *Ulex europaeus*, *Vicia sativa* subsp. *nigra*, *Vicia sativa* subsp. *segetalis* and *Vicia sepium*.

The coastal lowlands, from Helmsdale to Dornoch, lie on a narrow strip of Old Red Sandstone, about 8km wide, with younger strata of sandstone, shales and limestone that give rise to a zone of fertile soils, with arable agriculture and extensive woodlands. The gentle scenery of the east coast is in stark contrast to the wild and rugged coast of West Sutherland. Gorse and bracken mark out the coastal strip past Kintradwell Links punctuated by wooded denes leading down to the beach



PoPortgower village, taken from the Acres Croft land looking north with heathery Ord of Caithness in the distance. Murdoch Sutherland.



West Garty Farm showing pastures infested with *Juncus effusus*. *Ulex europaeus* in the foreground. Jim Bain.



View south from West Garty in NC 99 12. Stanley Howe. The A9 has a typical grassy verge with *Achillea millefolium*, *Agrostis capillaris*, *Agrostis stolonifera*, *Anthoxanthum odoratum*, *Anthriscus sylvestris*, *Arrhenatherum elatius*, *Centaurea nigra*, *Cerastium fontanum*, *Cerastium glomeratum*, *Chamerion angustifolium*, *Cirsium arvense*, *Cirsium palustre*, *Cirsium vulgare*, *Conopodium majus*, *Corylus avellana*, *Crataegus monogyna*, *Crepis capillaris*, *Cynosurus cristatus*, *Cytisus scoparius*, *Dactylis glomerata*, *Digitalis purpurea*, *Dryopteris filix-mas*, *Erica cinerea*, *Fagus sylvatica*, *Festuca rubra*, *Filipendula ulmaria*, *Galium aparine*, *Galium palustre*, *Galium saxatile*, *Galium verum*, *Geranium macrorrhizum*, *Geranium pratense*, *Heracleum sphondylium*, *Holcus lanatus*, *Hypochaeris radicata*, *Juncus bufonius*, *Juncus effusus*, *Lathyrus pratensis*, *Leontodon autumnalis*, *Leucanthemum vulgare*, *Lolium perenne*, *Lonicera periclymenum*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Medicago lupulina*, *Plantago lanceolata*, *Plantago major*, *Plantago maritima*, *Poa annua*, *Poa pratensis*, *Polygonum aviculare*, *Potentilla erecta*, *Prunella vulgaris*, *Pteridium aquilinum*, *Ranunculus acris*, *Ranunculus repens*, *Rhinanthus minor*, *Rumex acetosa*, *Rumex acetosella*, *Rumex longifolius*, *Rumex obtusifolius*, *Sagina procumbens*, *Senecio jacobaea*, *Silene dioica*, *Silene latifolia* subsp. *alba*, *Solanum dulcamara*, *Sonchus asper*, *Sonchus oleraceus*, *Sorbus aucuparia*, *Spergularia marina*, *Stellaria graminea*, *Stellaria holostea*, *Stellaria media*, *Teucrium scorodonia*, *Trifolium pratense*, *Trifolium repens*, *Ulex europaeus*, *Ulmus glabra*, *Urtica dioica*, *Valeriana officinalis*, *Veronica chamaedrys*, *Vicia cracca* and *Vicia sepium*.



Lothmore Church, where you will find *Acer pseudoplatanus*, *Alchemilla mollis*, *Arctium nemorosum*, *Bellis perennis*, *Cicerbita macrophylla*, *Cirsium arvense*, *Cirsium vulgare*, *Crataegus monogyna*, *Cytisus scoparius*, *Dactylis glomerata*, *Dryopteris affinis* subsp. *borreri*, *Dryopteris filix-mas*, *Euryops pectinatus*, *Fraxinus excelsior* 'Pendula', *Fuchsia magellanica*, *Galium aparine*, *Galium saxatile*, *Galium verum*, *Geranium x oxonianum*, *Glechoma hederacea*, *Holcus lanatus*, *Juncus effusus*, *Juncus squarrosus*, *Laburnum anagyroides*, *Lapsana communis*, *Myosotis arvensis*, *Plantago lanceolata*, *Plantago major*, *Prunella vulgaris*, *Ranunculus repens*, *Rumex acetosa*, *Sagina procumbens*, *Sambucus nigra*, *Symphytum x uplandicum*, *Ulex europaeus*, *Ulmus glabra*, *Urtica dioica*, *Veronica chamaedrys* and *Vicia sepium* in the churchyard. Chris Downer.



Former shingle quarry and gravel crusher by the coast near Loth NC 96 10. Jim Bain. The railway runs between the quarry and the beach. Two massive concrete gun emplacements surviving from World War II are visible on the ridge of the beach beyond the quarry. In the quarry itself, the abandoned shingle piles are still essentially barren, save for the odd seedling of *Picea abies*, but the soil-stripped areas are undergoing succession to dry heath, with *Anthyllis vulneraria*, *Calluna vulgaris*, *Caltha palustris*, *Cerastium fontanum*, *Chamerion angustifolium*, *Dryopteris affinis* subsp. *borreri*, *Dryopteris dilatata*, *Dryopteris filix-mas*, *Equisetum arvense*, *Hypochaeris radicata*, *Juncus squarrosus*, *Juniperus communis*, *Picea abies*, *Potentilla erecta*, *Rumex acetosella*, *Salix aurita*, *Salix repens*, *Ulex europaeus*, *Vaccinium myrtillus*, *Vicia sativa* subsp. *nigra*. There are two ponds on the site: the pond visible in the middle distance has *Caltha palustris*, *Cardamine pratensis*, *Cirsium palustre*, *Epilobium palustre*, *Equisetum fluviatile*, *Equisetum palustre*, *Galium palustre*, *Juncus effusus*, *Lathyrus pratensis*, *Pericaria amphibia*, *Potamogeton natans* and *Senecio aquaticus*, while the pond hidden behind the shingle piles has *Cardamine pratensis*, *Carex nigra*, *Epipactis* sp., *Equisetum fluviatile*, *Hydrocotyle vulgaris*, *Juncus articulatus*, *Juniperus communis*, *Lotus corniculatus*, *Polygala serpyllifolia*, *Ranunculus flammula*, *Salix aurita* and *Salix repens*. The rushy “improved” grasslands surrounding the quarry have *Achillea millefolium*, *Agrostis capillaris*, *Anthoxanthum odoratum*, *Bellis perennis*, *Cerastium fontanum*, *Cirsium arvense*, *Cirsium vulgare*, *Cynosurus cristatus*, *Dactylis glomerata*, *Juncus effusus*, *Lolium perenne*, *Luzula multiflora* subsp. *multiflora*, *Plantago lanceolata*, *Ranunculus bulbosus*, *Ranunculus repens*, *Senecio jacobaea*, *Trifolium repens*, *Urtica dioica*, *Veronica chamaedrys* and *Veronica serpyllifolia*. If they ever had any botanical distinction, it is now long gone.



Wooded dene at Allt Choll (SSSI) seen from the verge of the A9. Stanley Howe. For the adventurous and the sure-footed, the descent of this cliff-sided burn makes an excellent way down to the remote beach at Kintradwell Links. This is a classic ravine woodland with *Angelica sylvestris*, *Anthoxanthum odoratum*, *Arctium nemorosum*, *Armeria maritima*, *Athyrium filix-femina*, *Betula*

pubescens, *Cardamine flexuosa*, *Chrysosplenium oppositifolium*, *Conopodium majus*, *Corylus avellana*, *Cytisus scoparius*, *Digitalis purpurea*, *Dryopteris affinis* subsp. *borreri*, *Dryopteris dilatata*, *Dryopteris filix-mas*, *Epilobium montanum*, *Erica cinerea*, *Filipendula ulmaria*, *Geranium robertianum*, *Holcus mollis*, *Hyacinthoides non-scripta*, *Hypericum pulchrum*, *Juncus effusus*, *Juniperus communis*, *Lapsana communis*, *Lonicera periclymenum*, *Luzula pilosa*, *Luzula sylvatica*, *Lysimachia nemorum*, *Oxalis acetosella*, *Populus tremula*, *Primula vulgaris*, *Pteridium aquilinum*, *Ranunculus ficaria*, *Rumex acetosa*, *Salix cinerea* subsp. *oleifolia*, *Silene dioica*, *Stachys sylvatica*, *Stellaria holostea*, *Stellaria uliginosa*, *Teucrium scorodonia*, *Urtica dioica*, *Veronica officinalis* and *Viola riviniana*. Leave the A9 verge by the gate at NC 93487 09156 and enter the wood by the angle in the fence at NC 93551 09127. Low coastal cliffs within Ballinreach Coastal Gorges SSSI show exposures of rock laid down during the Upper (or Late) Jurassic Period, known as the Kimmeridgian Age, which spans a time from between 156 to 147 million years ago. The botanical rarities at the site include *Asplenium marinum*, *Dryopteris aemula* and *Hypericum androsaemum*.



Kintradwell looking south along the railway. Note the complete absence of vascular plants from the track-bed, testimony to the copious use of herbicides. Phil Williams. The wooded Kintradwell Burn begins on the right of the picture. This delightful plantation has *Acer pseudoplatanus*, *Agrostis capillaris*, *Alnus glutinosa*, *Anthoxanthum odoratum*, *Betula pendula*, *Betula pubescens*, *Cardamine flexuosa*, *Castanea sativa*, *Chrysosplenium oppositifolium*, *Cirsium arvense*, *Cirsium palustre*, *Cirsium vulgare*, *Crocoshmia masoniorum*, *Crocoshmia x crocosmiiflora*, *Digitalis purpurea*, *Dryopteris affinis* subsp. *borreri*, *Dryopteris dilatata*, *Fagus sylvatica*, *Fraxinus excelsior*, *Galanthus nivalis*, *Galium aparine*, *Geranium robertianum*, *Hyacinthoides non-scripta*, *Larix decidua*, *Luzula sylvatica*, *Oxalis acetosella*, *Phyllitis scolopendrium*, *Poa nemoralis*, *Populus x canadensis*, *Primula vulgaris*, *Prunus laurocerasus*, *Ranunculus ficaria*, *Ranunculus repens*, *Salix fragilis*, *Sambucus nigra*, *Silene dioica*, *Sorbus aucuparia*, *Tsuga heterophylla*, *Ulex europaeus*, *Ulmus glabra* and *Urtica dioica*.



Kintradwell Links lie hidden below the ridge in the middle distance on the far side of the railway. Phil Williams. The heath to the east of the A9 is dominated here by gorse and bracken, with *Calluna vulgaris* and *Erica cinerea* and patches of wet heath with *Eriophorum angustifolium*. A group of *Salix cinerea* subsp. *oleifolia* in the middle distance. The roadside verge here is species-rich, with *Acer pseudoplatanus*, *Angelica sylvestris*, *Anthriscus sylvestris*, *Buddleja globosa*, *Calluna vulgaris*, *Cerastium fontanum*, *Chamerion angustifolium*, *Corylus avellana*, *Crepis capillaris*, *Crococsmia x crocosmiiflora*, *Cynosurus cristatus*, *Cytisus scoparius*, *Digitalis purpurea*, *Dryopteris affinis* subsp. *borreri*, *Echinops bannaticus*, *Erica cinerea*, *Erica tetralix*, *Eriophorum angustifolium*, *Fagus sylvatica*, *Fagus sylvatica* 'Purpurea', *Galium saxatile*, *Geranium robertianum*, *Heracleum sphondylium*, *Holcus lanatus*, *Holcus mollis*, *Hypochaeris radicata*, *Juncus effusus*, *Lathyrus pratensis*, *Leontodon autumnalis*, *Leucanthemum vulgare*, *Lonicera periclymenum*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Luzula sylvatica*, *Myosotis scorpioides*, *Plantago lanceolata*, *Plantago major*, *Plantago maritima*, *Potentilla anserina*, *Potentilla erecta*, *Pteridium aquilinum*, *Rumex acetosa*, *Rumex acetosella*, *Rumex obtusifolius*, *Salix aurita*, *Salix cinerea* subsp. *oleifolia*, *Sambucus nigra*, *Senecio jacobaea*, *Silene dioica*, *Sonchus asper*, *Sorbus aucuparia*, *Stellaria graminea*, *Symphoricarpos x chenaultii*, *Trifolium repens*, *Ulex europaeus*, *Vicia cracca*, *Vicia hirsuta*, *Vicia sativa* subsp. *nigra* and *Vicia sepium*.



The sea from Kintradwell Burn, looking across fertilized and re-seeded grasslands. Sylvia Duckworth.



Rushy pasture and gorse-dominated banks north of the A9 at Achrimsdale. Jonathan Billinger.



Beach north of Brora looking across *Fucus* covered boulders to Ord of Caithness in the far distance beyond gently-rolling, heather-clad hills. *Carex maritima* was formerly found on the sands between Brora and Helmsdale. John Clive Nicholson.



Brora golf course looking north. Alan Stewart. In the low dunes between the fairway and the sea you will find *Ammophila arenaria*, *Angelica sylvestris*, *Anthoxanthum odoratum*, *Arabidopsis thaliana*, *Arenaria serpyllifolia* subsp. *serpyllifolia*, *Astragalus danicus*, *Carex arenaria*, *Cerastium diffusum*, *Cerastium fontanum*, *Cortaderia richardii*, *Cynosurus cristatus*, *Dactylorhiza purpurella*, *Euphrasia nemorosa*, *Festuca arenaria*, *Galium verum*, *Helictotrichon pubescens*, *Honckenya peploides*, *Koeleria macrantha*, *Leymus arenarius*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Plantago lanceolata*, *Poa trivialis*, *Polypodium vulgare*, *Ranunculus acris*, *Rumex acetosella*, *Sedum acre*, *Senecio jacobaea*, *Thalictrum minus*, *Trifolium dubium*, *Trifolium repens*, *Urtica dioica* and the uncommon *Urtica urens*, but the choice species are noticeably less frequent here than at Dornoch or Golspie, perhaps because the golf course is grazed by Commoners' sheep and cattle. The putting greens are surrounded by electric fences to deter the animals.



Looking north across the mouth of the R. Brora towards Ord of Caithness Chris Downer



Brora clock tower, looking upstream with *Digitalis purpurea* in the foreground. Stanley Howe. Waste ground on the town's industrial estate is rich in species, several of which have very local distributions in northern Scotland: *Alliaria petiolata*, *Anthriscus sylvestris*, *Aphanes australis*, *Aquilegia vulgaris*, *Arabidopsis thaliana*, *Arctium nemorosum*, *Barbarea vulgaris*, *Brassica napus*

subsp. *oleifera*, *Buddleja davidii*, *Cerastium fontanum*, *Cerastium glomeratum*, *Chamerion angustifolium*, *Cirsium arvense*, *Cirsium vulgare*, *Cymbalaria muralis*, *Epilobium ciliatum*, *Erodium cicutarium*, *Hesperis matronalis*, *Holcus lanatus*, *Lamium purpureum*, *Lapsana communis*, *Lotus corniculatus*, *Medicago lupulina*, *Myosotis arvensis*, *Papaver somniferum*, *Rumex crispus*, *Rumex longifolius*, *Rumex obtusifolius*, *Sagina procumbens*, *Salix x reichardtii*, *Senecio jacobaea*, *Senecio viscosus*, *Senecio vulgaris*, *Sisymbrium officinale*, *Sonchus asper*, *Sonchus oleraceus*, *Spiraea x rosalba*, *Tanacetum parthenium*, *Tripleurospermum inodorum*, *Tussilago farfara*, *Ulex europaeus*, *Urtica dioica*, *Verbascum thapsus*, *Verbascum virgatum*, *Veronica arvensis*, *Veronica serpyllifolia*, *Vicia hirsuta*, *Vicia sepium* and *Viola arvensis*.



Harbour mouth at Brora. Gorse dominated banks with *Silene latifolia* subsp. *alba*. Stanley Howe. Ground surrounding the cottages on the far bank has *Aconitum x stoerkianum*, *Aegopodium podagraria*, *Agrostis capillaris*, *Ajuga reptans* 'Atropurpurea', *Alchemilla mollis*, *Alyssum saxatile*, *Anaphalis margaritacea*, *Anthriscus sylvestris*, *Arabidopsis thaliana*, *Arctium nemorosum*, *Aubrieta deltoidea*, *Barbarea intermedia*, *Bellis perennis*, *Berberis x stenophylla*, *Calendula officinalis*, *Cardamine hirsuta*, *Centaurea nigra*, *Cerastium diffusum*, *Cerastium fontanum*, *Cerastium glomeratum*, *Cerastium tomentosum*, *Chamerion angustifolium*, *Cirsium arvense*, *Cochlearia officinalis*, *Convallaria majalis*, *Cortaderia richardii*, *Cotoneaster simonsii*, *Crococsmia x crocosmiiflora*, *Cytisus scoparius*, *Dactylis glomerata*, *Dryopteris filix-mas*, *Equisetum arvense*, *Erophila verna*, *Fallopia convolvulus*, *Festuca pratensis*, *Festuca rubra*, *Galium aparine*, *Geranium macrorrhizum*, *Geranium molle*, *Heracleum sphondylium*, *Heuchera sanguinea*, *Hippophae rhamnoides*, *Hyacinthoides non-scripta*, *Hyacinthoides x massartiana*, *Hypochaeris radicata*, *Ilex aquifolium*, *Leucanthemum x superbum*, *Leymus arenarius*, *Lotus corniculatus*, *Lupinus x regalis*, *Muscari armeniacum*, *Myosotis arvensis*, *Myosotis discolor*, *Myosotis sylvatica*, *Narcissus* 'Golden Ducat', *Papaver dubium* subsp. *dubium*, *Papaver pseudoorientale*, *Persicaria bistorta*, *Pilosella*

officinarum, *Plantago major*, *Poa annua*, *Primula vulgaris*, *Pulmonaria officinalis*, *Rheum x hybridum*, *Rosa rugosa*, *Rumex crispus*, *Sagina procumbens*, *Sambucus nigra*, *Saxifraga 'Peter Pan'*, *Saxifraga x urbium*, *Sedum acre*, *Sedum spectabile*, *Senecio jacobaea*, *Senecio vulgaris*, *Silene uniflora*, *Sonchus asper*, *Sonchus oleraceus*, *Spiraea x rosalba*, *Stachys sylvatica*, *Stellaria media*, *Trifolium dubium*, *Ulex europaeus*, *Urtica dioica*, *Veronica filiformis*, *Veronica serpyllifolia* and *Vicia sativa* subsp. *nigra*.



Looking north across the Sputie Burn to Doll with low, heather-clad hills behind. Phil Williams.



Waterfall where the Sputie Burn spills out onto the beach NC 88 02 (Oliver Dixon) with *Achillea ptarmica*, *Agrostis capillaris*, *Arrhenatherum elatius*, *Carex arenaria*, *Cerastium fontanum*, *Ceratocarpus claviculata*, *Cytisus scoparius*, *Dactylis glomerata*, *Deschampsia flexuosa*, *Digitalis purpurea*, *Dryopteris dilatata*, *Dryopteris filix-mas*, *Erica cinerea*, *Festuca rubra*, *Galium saxatile*, *Galium verum*, *Holcus lanatus*, *Hyacinthoides non-scripta*, *Hypochaeris radicata*, *Potentilla erecta*, *Sambucus nigra*, *Senecio jacobaea*, *Senecio sylvaticus*, *Sorbus aucuparia*, *Stellaria graminea*, *Trifolium dubium*, *Trifolium repens* and *Ulex europaeus*. *Atriplex prostrata* on shingle in the foreground.



Carn Liath Broch is an iron age broch on the south side of the A9 trunk road, near Golspie. Both *Aira praecox* and *Aira caryophyllea* grow in the thin turf on the walls. Bill Henderson.



Looking south towards Dunrobin Castle with *Cirsium vulgare* and *Urtica dioica* conspicuous in the otherwise closely-grazed turf. *Crambe maritima* is still found on the shingle below Dunrobin Castle. Oliver Dixon.



Dunrobin Castle from the beach. You can see why the locals jokingly say that this represents “French Renaissance meets Scots Baronial”. This exterior dates from 1845, when the Second Duke of Sutherland commissioned Sir Charles Barry (famous as the architect for the Palace of Westminster, home to the House of Commons) to completely re-model the castle. His interiors were destroyed by a fire in 1915, but with its 189 rooms, this is still the largest house in northern Scotland.



Formal gardens below Dunrobin Castle. Sylvia Duckworth.



Golspie Viaduct carrying the railway far above the wooded Golspie Burn. Andrew Wood. The Big Burn, as it is known locally, is superb for plants with *Abies grandis*, *Aegopodium podagraria*, *Aesculus hippocastanum*, *Ajuga reptans*, *Allium ursinum*, *Alnus glutinosa*, *Anemone nemorosa*, *Angelica sylvestris*, *Asplenium trichomanes* subsp. *quadrialeans*, *Athyrium filix-femina*, *Betula pendula*, *Betula pubescens*, *Blechnum spicant*, *Caltha palustris*, *Cardamine flexuosa*, *Carex remota*, *Chamerion angustifolium*, *Chrysosplenium oppositifolium*, *Claytonia sibirica*, *Conopodium majus*, *Corylus avellana*, *Crepis paludosa*, *Dryopteris affinis* subsp. *borreri*, *Dryopteris carthusiana*, *Equisetum sylvaticum*, *Fallopia japonica*, *Galium odoratum*, *Geum rivale*, *Geum urbanum*, *Hedera helix*, *Hyacinthoides non-scripta*, *Hypericum x inodorum* 'Elstead', *Ilex aquifolium*, *Iris pseudacorus*, *Lonicera periclymenum*, *Luzula pilosa*, *Luzula sylvatica*, *Lysimachia vulgaris*, *Oxalis acetosella*, *Poa nemoralis*, *Polypodium vulgare*, *Polystichum aculeatum*, *Polystichum setiferum*, *Primula vulgaris*, *Prunus avium*, *Prunus padus*, *Quercus x rosacea*, *Ranunculus ficaria*, *Saxifraga granulata*, *Silene dioica*, *Sorbus aucuparia*, *Symphytum orientale*, *Tilia x europaea*, *Ulmus glabra*, *Viola palustris* and *Viola riviniana*.



One of the footbridges across the Big Burn at Golspie. Andrew Wood. The cliffs of these damp ravines are festooned with *Allium ursinum*, *Chrysosplenium oppositifolium* and a wide variety of ferns.



Looking south along the beach on the southern edge of Golspie with *Achillea millefolium*, *Aconitum x stoerkianum*, *Aegopodium podagraria*, *Alchemilla mollis*, *Anthriscus sylvestris*, *Anthyllis vulneraria* subsp. *carpatica*, *Arabidopsis thaliana*, *Arrhenatherum elatius*, *Atriplex glabriuscula*, *Atriplex prostrata*, *Bellis perennis*, *Buddleja davidii*, *Calluna vulgaris*, *Carex arenaria*, *Cerastium fontanum*, *Cerastium glomeratum*, *Cirsium arvense*, *Crepis capillaris*, *Cynosurus cristatus*, *Cytisus scoparius*, *Dactylis glomerata*, *Digitalis purpurea*, *Elytrigia repens*, *Equisetum arvense*, *Erodium cicutarium*, *Escallonia macrantha*, *Festuca rubra*, *Galium verum*, *Heracleum sphondylium*, *Hypochaeris radicata*, *Lapsana communis*, *Lathyrus pratensis*, *Leymus arenarius*, *Lolium perenne*, *Lotus corniculatus*, *Medicago lupulina*, *Papaver dubium*, *Plantago lanceolata*, *Poa annua*, *Poa pratensis*, *Rumex acetosa*, *Sagina apetala* subsp. *apetala*, *Senecio jacobaea*, *Senecio vulgaris*, *Silene dioica*, *Silene latifolia* subsp. *alba*, *Sonchus asper*, *Tanacetum parthenium*, *Trifolium pratense*, *Trifolium repens*, *Ulex europaeus*, *Vicia cracca*, *Vicia hirsuta* and *Vicia sepium*. Calum McRoberts.



Looking north along Golspie Beach in winter Peter Moore.



Golspie links. The coastal golf course at Golspie, with the coast of Portmahomack on Tarbat Ness in Easter Ross (vc. 106) across the Dornoch Firth in the distance to the south-east. Plants growing here include *Achillea millefolium*, *Aegopodium podagraria*, *Aira praecox*, *Ammophila arenaria*, *Angelica sylvestris*, *Astragalus danicus*, *Atriplex glabriuscula*, *Atriplex prostrata*, *Bellis perennis*, *Cakile maritima*, *Campanula rotundifolia*, *Carex arenaria*, *Carex flacca*, *Cerastium fontanum*, *Cerastium glomeratum*, *Cirsium arvense*, *Cirsium vulgare*, *Crepis capillaris*, *Equisetum arvense*, *Erodium cicutarium*, *Festuca arenaria*, *Festuca rubra*, *Filago minima*, *Filipendula ulmaria*, *Galium verum*, *Glaux maritima*, *Heracleum sphondylium*, *Holcus lanatus*, *Honckenya peploides*, *Hypochaeris radicata*, *Koeleria macrantha*, *Leucanthemum vulgare*, *Leymus arenarius*, *Linum catharticum*, *Lolium perenne*, *Lotus corniculatus*, *Medicago lupulina*, *Myosotis arvensis*, *Pilosella officinarum*, *Plantago lanceolata*, *Plantago major*, *Plantago maritima*, *Poa pratensis*, *Polygala vulgaris*, *Prunella vulgaris*, *Rumex crispus*, *Sagina nodosa*, *Sagina procumbens*, *Senecio jacobaea*, *Sonchus arvensis*, *Sonchus asper*, *Thalictrum minus*, *Thymus polytrichus* subsp. *britannicus*, *Trifolium pratense*, *Trifolium repens*, *Urtica urens*, *Vicia cracca*, *Vicia sativa* subsp. *nigra*, *Vicia sepium* and the delightful *Viola tricolor* subsp. *curtisii*.



Coastal grassland at Littleferry Kart Track, south of Golspie (Sarah McGuire), where you will find *Aegopodium podagraria*, *Aira praecox*, *Ammophila arenaria*, *Angelica sylvestris*, *Astragalus danicus*, *Atriplex glabriuscula*, *Atriplex prostrata*, *Bellis perennis*, *Cakile maritima*, *Campanula rotundifolia*, *Carex arenaria*, *Carex flacca*, *Cerastium fontanum*, *Cerastium glomeratum*, *Cirsium arvense*, *Cirsium vulgare*, *Crepis capillaris*, *Equisetum arvense*, *Festuca rubra*, *Filago minima*, *Filipendula ulmaria*, *Glaux maritima*, *Heracleum sphondylium*, *Holcus lanatus*, *Honckenya peploides*, *Hypochaeris radicata*, *Leucanthemum vulgare*, *Leymus arenarius*, *Linum catharticum*, *Lolium perenne*, *Lotus corniculatus*, *Medicago lupulina*, *Pilosella officinarum*, *Plantago lanceolata*, *Plantago major*, *Plantago maritima*, *Poa pratensis*, *Prunella vulgaris*, *Rumex crispus*, *Sagina nodosa*, *Sagina procumbens*, *Senecio jacobaea*, *Sonchus arvensis*, *Sonchus asper*, *Thalictrum minus*, *Thymus polytrichus* subsp. *britannicus*, *Trifolium pratense*, *Trifolium repens*, *Vicia cracca*, *Vicia sativa* subsp. *nigra*, *Vicia sepium* and *Viola tricolor* subsp. *curtisii*. Rosebay willow herb (*Chamerion angustifolium*) in full flower in the distance on the left.

Loch Fleet

These tidal sand flats support internationally important numbers of wintering wildfowl and waders, including Bar-tailed godwit, Greylag goose, Dunlin, Widgeon and Long-tailed duck in a wintering wildfowl assemblage totalling more than 20,000 birds, with Shelduck, Teal, Curlew and Redshank. If you are lucky you will see Otter and foraging Osprey.



At the north-eastern corner of Loch Fleet are fine dunes and lichen-rich heaths at Littleferry [NH 810 958], with *Cladonia portentosa* and *Cladonia ciliata* amongst *Calluna vulgaris*, *Erica cinerea* and *Empetrum nigrum*. Other uncommon lichens include *Bacidia egenula*, *Buellia schaereri*, *Cladonia cornuta*, *Cladonia mitis*, *Cladonia uncialis uncialis*, *Cladonia zopfii*, *Peltigera canina*, *Peltigera leucophlebia*, *Polyblastia gelatinosa*, *Psoroma hypnorum* and *Stereocaulatum condensatum*. In the dunes at Ferry Links you will find rarities including *Astragalus danicus*, *Botrychium lunaria*, *Centaureum littorale*, *Coeloglossum viride*, *Equisetum variegatum* and *Saxifraga tridactylites*.



Balblair Woods and Ben Bhraggie with its monument (“The Wee Mannie”) in the distance. Peter Moore. Balblair is where you will find superb displays of *Moneses uniflora* and *Goodyera repens*, with occasional patches of *Linnaea borealis* beneath the pines.



Littleferry Pier from the southern shore of Loch Fleet. Bob Jones.



Looking southwest from Balblair Woods across Loch Fleet NH 79 97. These woods are home to *Moneses uniflora* and *Linnaea borealis*. Peter Moore.

The margins of the sea loch are dotted with fragments of interesting salt marsh: in addition to rarities like *Atriplex littoralis*, *Carex extensa*, *Sagina maritima*, *Zostera marina* and *Zostera noltei* there are fine populations of *Agrostis stolonifera*, *Amblystegium riparium*, *Amblystegium serpens*, *Armeria maritima*, *Aster tripolium*, *Atriplex prostrata*, *Blysmus rufus*, *Calliargon cuspidatum*, *Campyllum stellatum*, *Carex flacca*, *Carex panicea*, *Carex serotina*, *Centaurium littorale*, *Cerastium fontanum*, *Cochlearia officinalis*, *Drepanocladus revolvens*, *Eleocharis quinqueflora*, *Eleocharis uniglumis*, *Equisetum palustre*, *Euphrasia foulaensis*, *Eurhynchium praelongum*, *Festuca rubra*, *Glaux maritima*, *Holcus lanatus*, *Hypnum cupressiforme*, *Juncus articulatus*, *Juncus gerardi*, *Koeleria macrantha*, *Leontodon autumnalis*, *Lolium perenne*, *Lophocolea bidentata*, *Lotus corniculatus*, *Plantago coronopus*, *Plantago lanceolata*, *Plantago maritima*, *Poa pratensis*, *Potentilla anserina*, *Potentilla erecta*, *Puccinellia maritima*, *Rhynchospora squarrosus*, *Rumex crispus*, *Sagina nodosa*, *Sagina procumbens*, *Salicornia europaea* agg., *Schistidium maritimum*, *Spergularia marina*, *Spergularia media*, *Suaeda maritima*, *Trifolium repens*, *Triglochin maritima* and *Triglochin palustris*.



The Mound Alder Woods from the causeway. This is a great place from which to watch Ospreys foraging for fish. Mike Baldwin.



Low tide on Loch Fleet, with the summit of Cambusmore in the distance. The narrow strip of salt marsh in the foreground has such local specialities as *Atriplex littoralis*. Cambusmore and The Mound [NH 763 974] form a real botanical hot-spot. Mound Rock (just out of picture to the right) has *Saxifraga hyponoides*, *Helianthemum nummularium*, *Sorbus rupicola*, *Ajuga pyramidalis* and *Orthilia secunda*. The Mound Alder woods are described later, but the brackish wetlands behind the causeway (built between 1814 and 1818), which holds back the tide 2.5km from its original limit, support *Agrostis canina*, *Alnus glutinosa*, *Betula pubescens* subsp. *odorata*, *Calliergon cuspidatum*, *Cardamine pratensis*, *Carex nigra*, *Carex panicea*, *Deschampsia cespitosa*, *Equisetum palustre*, *Erica tetralix*, *Filipendula ulmaria*, *Galium palustre*, *Juncus conglomeratus*, *Molinia caerulea*, *Myrica gale*, *Potentilla erecta*, *Pseudoscleropodium purum*, *Rhytidadelphus triquetrus*, *Sorbus aucuparia*, *Succisa pratensis* and *Thuidium tamariscinum*.



The heathery summit of Ben Tarvie (270 m) affords wonderful views of Loch Fleet (here full of water at high tide). The crags at the south-western end of the summit have *Saxifraga aizoides* and juniper.



Looking north from the heathery summit of Ben Tarvie (270 m) the view has Mound Rock (208 m) in the central mid-distance, Ben Bhraggie (397 m) with its monument in the far distance above Golspie, while the foreground has Cnoc Odhar (205 m) on the right and Princess Cairn (261 m) above Cambusmore Lodge on the left.



Coul Links with Dunrobin Castle in the distance on the opposite (northern) side of Loch Fleet. There are superb dune heaths at the northern tip of Coul Links. In the section illustrated, the sand dunes extend into Embo Links. Davidmmac. Coul links [NH 808 947] exhibit a superb matrix of sand dunes and lichen-rich coastal heath. Here are *Ammophila arenaria*, *Avenula pubescens*, *Botrychium lunaria*, *Campanula rotundifolia*, *Carex arenaria*, *Cerastium fontanum*, *Festuca ovina*, *F. rubra*, *Galium verum*, *Hylocomium splendens*, *Lotus corniculatus*, *Luzula campestris*, *Peltigera canina*, *Pilosella officinarum*, *Poa pratensis*, *Thymus polytrichus* subsp. *britannicus*, *Trifolium repens*, *Veronica chamaedrys*, *Veronica officinalis*, *Viola riviniana*, *Viola tricolor* subsp. *tricolor* and *Viola tricolor* subsp. *curtisii*.



Coul Links from Little Ferry Pier. Looking south across the mouth of Loch Fleet, with its extreme tidal rip. The heathy dunes in the distance are rich in uncommon plants.



There are further outstanding sand dunes at Embo Links [NH 815 932] with locally abundant *Astragalus danicus* with *Salix repens* and *Parnassia palustris* in damp dune slacks. Common species include *Achillea millefolium*, *Ammophila arenaria*, *Brachytheceium albicans*, *Brachytheceium rutabulum*, *Calliargon cuspidatum*, *Campanula rotundifolia*, *Carex arenaria*, *Cerastium fontanum*, *Cirsium vulgare*, *Climacium dendroides*, *Cynosurus cristatus*, *Dactylis glomerata*, *Festuca ovina*, *Festuca rubra*, *Galium verum*, *Koeleria macrantha*, *Listera ovata*, *Lophocolea bidentata*, *Lotus corniculatus*, *Luzula campestris*, *Pilosella officinarum*, *Plagiomnium undulatum*, *Plantago lanceolata*, *Pleurozium schreberi*, *Poa pratensis*, *Pseudoscleropodium purum*, *Ranunculus bulbosus*, *Rhinanthus minor*, *Rhytidadelphus squarrosus*, *Rumex acetosa*, *Senecio jacobaea*, *Thalictrum minus*, *Thuidium delicatulum*, *Thuidium delicatulum*, *Thymus polytrichus* subsp. *britannicus* and *Viola riviniana*. In the extensive damp dune slacks, *Helianthemum nummularium* grows with *Rosa pimpinellifolia* on mounds of sand that rise above the water table. The uncommon *Equisetum hyemale* grows high and dry on the dune ridge.



The coast at Dornoch [NH 804 896] is fringed with dunes and links. The celebrated Royal Dornoch Golf Club (above) was formed here in 1877, although there are written records of golf being played on the links at Dornoch stretching back to 1616. Damp grasslands hereabouts have *Coeloglossum viride*, *Listera ovata*, *Dactylorhiza incarnata*, *D. purpurella* and *Centaureum littorale*. The sand dunes are home to *Astragalus danicus*, *Arabis hirsuta*, *Sedum acre*, *Juniperus communis*, *Empetrum nigrum* and rarities like *Draba incana*, *Cerastium arvense* and *Antennaria dioica*. On the sea side of the dunes, the sandy shore supports *Cakile maritima*, *Salsola kali* and *Atriplex glabriuscula*.



Species-rich grassland at Hilton of Embo, inland from Dornoch, has Lesser Butterfly Orchid *Platanthera bifolia*, and 5 other kinds of orchid, growing on a former caravan park. The Moray Firth is visible in the distance.



Looking south along the dunes towards Dornoch Point with vc. 106 on the skyline. The two Scots pine trees have been here for many years, and appear not to be spreading. Derek Brown. The pines were severely damaged (possibly killed) by the severe winter of 2010-11.

Dornoch Point [NH 806 873] exhibits fine transitions between species-rich damp slacks and saltmarsh, with good creek development with *Juncus balticus* and *Centaurium littorale*. West of Dornoch Point is a transition from salt marsh to links, with *Armeria maritima*, *Aster tripolium*, *Plantago maritima*, *Salicornia* spp., *Suaeda maritima*, *Spergularia media*, *Triglochin maritima*, *Juncus gerardii*, *J. balticus* and the very rare *Carex maritima* just south of the grassy airstrip. Brackish areas close to the sea support several local rarities, including *Blysmus rufus*, *Apium inundatum* and *Glyceria maxima*. Dornoch "Common Good Lands" [NH 801 882] stretch to the south of the town and include the grass-strip airfield. The plant hunting is excellent with a matrix of maritime grasslands including *Anthyllis vulneraria*, *Astragalus danicus*, *Avenula pubescens*, *Carex arenaria*, *Cerastium fontanum*, *Cladonia rangiformis*, *Climacium dendroides*, *Elymus repens*, *Festuca ovina*, *Festuca rubra*, *Galium verum*, *Hylocomium splendens*, *Koeleria macrantha*, *Linum catharticum*, *Lotus corniculatus*, *Plantago maritima*, *Ranunculus bulbosus*, *Rhytidadelphus squarrosus*, *Rhytidadelphus triquetrus*, *Thymus polytrichus* subsp. *britannicus*, *Veronica arvensis* and *Veronica chamaedrys*.



Looking west from the Dornoch Firth Bridge with vc. 107 on the right and vc. 106 on the left. Sarah McGuire. Lichen-rich dune-heath in the foreground. The shore south of Carnegie Golf Course [NH 732 872] has *Teesdalia nudicaulis* and *Lythrum portula* with substantial areas of lichen-rich heath. The shingle beach adjacent to the causeway has *Atriplex prostrata*, *Cakile maritima*, *Elytrigia repens*, *Myosotis arvensis*, *Rumex crispus* subsp. *littoreus*, *Silene uniflora*, *Sonchus arvensis*, *Stellaria media* and *Tripleurospermum maritimum*.

The Straths

This section illustrates the kind of scenery encountered in each of the major river valleys (from north to south), travelling upstream from the sea to the watershed in each case.

R. Helmsdale



The lowest reaches of Helmsdale River Chris S. Here you will see *Acer pseudoplatanus*, *Aegopodium podagraria*, *Anthriscus sylvestris*, *Dryopteris filix-mas*, *Galium aparine*, *Hedera helix*, *Heracleum sphondylium*, *Holcus mollis*, *Hyacinthoides x massartiana*, *Luzula sylvatica*, *Narcissus* 'Carlton', 'Dutch Master' and 'Wisley', *Poa nemoralis*, *Prunus padus*, *Ranunculus ficaria*, *Rubus idaeus*, *Rumex obtusifolius*, *Sorbus aucuparia*, *Ulmus glabra*, *Veronica chamaedrys* and *Veronica hederifolia* subsp. *hederifolia*.



The lower reaches of the Helmsdale River, with rushy pasture, birch woodland, bracken and heather at ND 00 17 Chris S. At the riverside, grow *Acer pseudoplatanus*, *Achillea millefolium*, *Agrostis capillaris*, *Alchemilla mollis*, *Alnus glutinosa*, *Alstroemeria aurea*, *Anemone nemorosa*, *Anthoxanthum odoratum*, *Anthriscus sylvestris*, *Arrhenatherum elatius*, *Caltha palustris*, *Cardamine pratensis*, *Carex flacca*, *Centaurea nigra*, *Cochlearia officinalis*, *Conopodium majus*, *Cotoneaster simonsii*, *Crocasmia x crocosmiiiflora*, *Cytisus scoparius*, *Dactylis glomerata*, *Deschampsia cespitosa* subsp. *cespitosa*, *Dryopteris filix-mas*, *Equisetum arvense*, *Festuca rubra*, *Filipendula ulmaria*, *Heracleum sphondylium*, *Holcus lanatus*, *Hyacinthoides non-scripta*, *Hyacinthoides x massartiana*, *Hypochaeris radicata*, *Juncus effusus*, *Luzula sylvatica*, *Pentaglottis sempervirens*, *Persicaria bistorta*, *Plantago lanceolata*, *Plantago maritima*, *Primula vulgaris*, *Prunus padus*, *Pteridium aquilinum*, *Rubus idaeus*, *Rumex acetosa*, *Rumex longifolius*, *Rumex obtusifolius*, *Stellaria holostea*, *Tussilago farfara*, *Ulex europaeus*, *Urtica dioica*, *Valeriana officinalis* and *Vicia sepium*.



The Helmsdale River in NC 96 18, perhaps the most expensive salmon fishing river in Scotland.
Chris S.



River Helmsdale, looking upstream across dry heath from the radio tower. Sylvia Duckworth.



River Helmsdale from the bridge near Kildonan Railway Station. Eric Garner.



Strath of Kildonan with the R Helmsdale near Craggie Water



Moorland above Learable. Sylvia Duckworth.



Molinia grassland by River Helmsdale in NC 83 31 with Ben Armine and Ben Klibreck in the distance. Richard Webb.



Strath of Kildonan with Kildonan Church in the mid-distance, across the river in a heather-dominated landscape. Sylvia Duckworth. Like most local graveyards, the churchyard is species-poor, with *Achillea millefolium*, *Alchemilla mollis*, *Arctium nemorosum*, *Bellis perennis*, *Cerastium fontanum*, *Cirsium vulgare*, *Dactylis glomerata*, *Digitalis purpurea*, *Galium aparine*, *Galium saxatile*, *Geranium macrorrhizum*, *Lolium perenne*, *Lupinus x regalis*, *Lysimachia punctata*, *Narcissus* 'Dutch Master', *Plantago lanceolata*, *Poa annua*, *Poa compressa*, *Ranunculus repens*, *Rumex acetosa*, *Rumex obtusifolius*, *Sonchus asper*, *Trifolium repens*, *Urtica dioica* and *Veronica chamaedrys*.



Birch woods by the R. Helmsdale at Kildonan NC 90 22 (Sylvia Duckworth), with *Achillea millefolium*, *Achillea ptarmica*, *Agrostis capillaris*, *Agrostis stolonifera*, *Agrostis vinealis*, *Aira praecox*, *Ajuga reptans*, *Alchemilla glabra*, *Anemone nemorosa*, *Angelica sylvestris*, *Anthoxanthum odoratum*, *Betula pubescens*, *Betula pubescens* subsp. *tortuosa*, *Blechnum spicant*, *Calluna vulgaris*, *Campanula rotundifolia*, *Carex binervis*, *Carex demissa*, *Carex dioica*, *Carex echinata*, *Carex flacca*, *Carex nigra*, *Carex ovalis*, *Carex pallescens*, *Carex panicea*, *Carex pulicaris*, *Cerastium fontanum*, *Cirsium heterophyllum*, *Cirsium palustre*, *Cirsium vulgare*, *Conopodium majus*, *Crepis paludosa*, *Cynosurus cristatus*, *Dactylorhiza maculata* subsp. *ericetorum*, *Danthonia decumbens*, *Deschampsia flexuosa*, *Digitalis purpurea*, *Empetrum nigrum* subsp. *nigrum*, *Epilobium palustre*, *Equisetum palustre*, *Equisetum sylvaticum*, *Erica tetralix*, *Eriophorum angustifolium*, *Euphrasia arctica* subsp. *borealis*, *Festuca arundinacea*, *Festuca ovina*, *Festuca rubra*, *Filipendula ulmaria*, *Galium palustre*, *Galium saxatile*, *Galium verum*, *Gentianella campestris*, *Geum rivale*, *Gymnocarpium dryopteris*, *Holcus mollis*, *Hyacinthoides non-scripta*, *Hypericum pulchrum*, *Juncus acutiflorus*, *Juncus articulatus*, *Juncus bufonius*, *Juncus conglomeratus*, *Juncus squarrosus*, *Lathyrus linifolius*, *Leontodon autumnalis*, *Listera cordata*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Luzula multiflora* subsp. *multiflora*, *Luzula pilosa*, *Luzula sylvatica*, *Lysimachia nemorum*, *Matricaria discoidea*, *Melampyrum pratense* subsp. *pratense*, *Molinia caerulea* subsp. *caerulea*, *Montia fontana* subsp. *fontana*, *Myrica gale*, *Nardus stricta*, *Narthecium ossifragum*, *Oreopteris limbosperma*, *Oxalis acetosella*, *Pedicularis sylvatica*, *Phegopteris connectilis*, *Pinguicula vulgaris*, *Plantago major*, *Poa trivialis*, *Polygala serpyllifolia*, *Polygonum aviculare*, *Polypodium vulgare*, *Potamogeton polygonifolius*, *Potentilla erecta*, *Primula vulgaris*, *Prunella vulgaris*, *Pteridium aquilinum*, *Ranunculus acris*, *Ranunculus auricomus*, *Ranunculus flammula*, *Ranunculus repens*, *Rumex acetosella*, *Salix aurita*, *Salix cinerea* subsp. *oleifolia*, *Selaginella selaginoides*, *Sorbus aucuparia*, *Stellaria holostea*, *Stellaria media*, *Succisa pratensis*, *Trientalis europaea*, *Trifolium repens*,

Triglochin palustre, *Vaccinium myrtillus*, *Valeriana officinalis*, *Veronica chamaedrys*, *Veronica officinalis*, *Viola palustris* and *Viola riviniana*.



Loch Badanloch NC 78 33 looking north-westwards with Ben Hope (left) and Ben Loyal (centre) in the distance . Andy Coyne. Sandy ground by the outflow sluice (which controls the water flow into R Helmsdale for the valuable salmon fishery) supports *Achillea millefolium*, *Agrostis stolonifera*, *Anthoxanthum odoratum*, *Bellis perennis*, *Calluna vulgaris*, *Cardamine pratensis*, *Carex nigra*, *Chamerion angustifolium*, *Cirsium palustre*, *Cirsium vulgare*, *Cynosurus cristatus*, *Deschampsia cespitosa* subsp. *cespitosa*, *Deschampsia flexuosa*, *Digitalis purpurea*, *Eleocharis palustris*, *Equisetum arvense*, *Equisetum fluviatile*, *Erica tetralix*, *Eriophorum angustifolium*, *Festuca filiformis*, *Festuca ovina*, *Festuca rubra*, *Festuca vivipara*, *Galium palustre*, *Galium saxatile*, *Gnaphalium sylvaticum*, *Holcus lanatus*, *Juncus effusus*, *Juncus squarrosus*, *Linum catharticum*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Nardus stricta*, *Pedicularis sylvatica*, *Pinus contorta* seedlings, *Plantago lanceolata*, *Potamogeton polygonifolius*, *Potentilla erecta*, *Prunella vulgaris*, *Ranunculus acris*, *Ranunculus repens*, *Rhinanthus minor*, *Rumex acetosa*, *Rumex acetosella*, *Sagina procumbens*, *Senecio jacobaea*, *Thymus polytrichus*, *Trifolium dubium*, *Trifolium micranthum*, *Trifolium repens*, *Ulex europaeus*, *Veronica officinalis* and *Viola riviniana*.



The private road and bridge to Borrobol Lodge. Sarah McGuire.



Daffodils in several cultivars at Borrobol Lodge. NC 86 26. Sylvia Duckworth.



Struggling lodgepole pines on Borrobol Estate. Looking north across Srath na Frith from NC 83 26
Sylvia Duckworth.



Snow-capped Ben Armine looking west from the Borrobol Estate NC 83 26. The summit is more than 10km away across another valley. Sylvia Duckworth.



North Country Cheviot sheep in rushy pasture on the track to Altanduin on the Borrobol Estate in NC 82 26 Sylvia Duckworth.



Native woodland regeneration inside a deer-proof and stock-proof fence in the headwaters of the Allt an Taghain on the Borrobol Estate. NC 802 253. Protection from grazing allows a wide range of species to flower including *Lynchis flos-cuculi* and *Primula vulgaris*. Bracken encroachment is controlled by application of selective herbicide.

R. Loth

The rocky gorge through which the Loth Burn flows in its lower reaches supports a superb birch woodland. Loth Gorge woodland grows in two blocks on the steep slopes, separated by a relatively open section. The woodland is dominated by *Betula pubescens*, with *Corylus avellana* and *Salix cinerea*. *Sorbus aucuparia* is widespread but is less common. *Prunus padus*, *Populus tremula*, *Juniperus communis* and *Crataegus monogyna* are also present, while *Alnus glutinosa* occupies more open areas. The moist and shaded woodland conditions within the gorge support a lush ground flora, with *Polystichum aculeatum*, *Phegopteris connectilis*, *Luzula sylvatica*, *Anemone nemorosa* and *Chrysosplenium oppositifolium*. Rarities include the woodland grasses *Festuca gigantea* and *Bromopsis ramosus*, both of which are uncommon in the north Highlands.



Glen Loth, with the mass of Beinn Dhorain (628 m) dominating the skyline. In the valley bottom, the stones of Carn Bran broch are visible in the middle distance. Autumnal frosts have turned the bracken golden brown, but the gorse stays green. The road beside Loth Burn through Glen Loth runs roughly northwards from the coast at Lothbeg to join the R. Helmsdale at Kildonan Lodge, after passing beneath the crags of snowy Beinn Dhorain. The rocks of Old Red Sandstone have *Sedum rosea*, *Saxifraga hypnoides*, *S. stellaris* and *Cornus suecica*. On the high moors, further west, are *Alchemilla alpina*, *Lycopodium selago*, *L. alpinum* and *Rubus chamaemorus*. Sylvia Duckworth.



Standing stone at Sletdale in Glen Loth NC 93 12. Sylvia Duckworth.



Sletdale Burn enters Glen Loth. Sylvia Duckworth.



Looking down Glen Sletdale towards Glen Loth with Criag Riasgain (415 m) making up the bulk of the skyline, and the slopes of Beinn Mhealaich (592 m) to the left.



Allt a Choire Riabhaich flows down from Coire Riabhach through a wooded gorge into Glen Sletdale. Note the results of intense heather burning on the slopes in mid-left of shot.



The view downstream from inside the wooded gorge on Allt a Choire Riabhaich (see above), which flows out of Coire Riabhach into Glen Sletdale.



The middle section of Glen Sletdale with the crags of Carn Garbh (534 m) on the west.



The upper reaches of Glen Sletdale are low rounded ridges of wet heath, all the way to Meallan Liath Beag (461 m) which separates the watersheds of Craggie Burn to the north from Strath Brora in the south.



Derelict building, looking to the northeast over Glen Loth, with heathery Beinn Mhealach in the background. Phil Williams.



Ben Uarie from Glen Loth. The crags have *Salix herbacea* and *Saxifraga stellaris*. *Juncus effusus* in the foreground. Sylvia Duckworth.



The eastern slope of Glen Loth is dominated by the heathery lump of Beinn Mhealaich (592 m). Beyond this, the sea.



Snow capped mountains: looking northeast towards Morven from the watershed in Glen Loth, across a young Sitka spruce plantation. Sylvia Duckworth.



Looking northeast over a Sitka spruce plantation from A'Chrasg at the top of Glen Loth, towards the Strath of Kildonan. The peak of Morven with its shallow notch can be seen in the distance at the left. Phil Williams.



A view looking north towards the tall stile at the start of the footpath through the forestry plantation to Kilearnan Hill (centre left). The peak of Morven can be seen in the distance at centre right. Phil Williams.



Kildonan to Lothbeg road from the heathery eastern slopes of Cnoc Craggie Beag. Chris Ward.



Craggan Burn near the bridge on the Glen Loth road NC 91 18. Sylvia Duckworth.



Glen Loth Bridge over Craggan Burn, with bracken by the stream giving way to heather on the higher ground. Peter Moore.



Wooded moorland stream on Craggie Water, with *Alnus glutinosa*, *Betula pubescens*, *Sorbus aucuparia* and *Corylus avellana* taken from close to the bridge. Colin Kinnear.

Kintradwell Burn



The lower reaches of the steep-sided Kintradwell Burn [NC 916 079] are well worth a visit; it is clothed with dense *Betula pubescens*, *Sorbus aucuparia*, *Salix cinerea* subsp. *oleifolia*, *Ulex europaeus* and *Pteridium aquilinum* at first, opening out into treeless heather moorland further upstream at Creagan Mor (260 m). The stream is causing active erosion of the steep valley sides in several places (see below). Sylvia Duckworth.



Emerging from the trees into deep-cut steep-sided heather-clad gorge, with substantial river-cut erosion (extreme right) recolonized first by bracken (centre). Sylvia Duckworth.



The banks soon become much more open, further upstream in the valley of Kintradwell Burn. Sylvia Duckworth.



Towards the headwaters of the Kintradwell Burn at NC 90 10. Alan Stewart.

R. Brora



Gravel spits in the R Brora close to the sea NC 89 03. Stanley Howe.



The southern end of Loch Brora with Ben Horn in the background . Richard Webb. The Birch Wood flanking the road on the eastern shore of Loch Brora is relatively species-poor, with *Achillea millefolium*, *Agrostis capillaris*, *Agrostis vinealis*, *Anemone nemorosa*, *Anthoxanthum odoratum*, *Betula pubescens* , *Conopodium majus*, *Festuca ovina*, *Galium saxatile*, *Holcus mollis*, *Hyacinthoides non-scripta*, *Hylocomium splendens*, *Lathyrus montanus*, *Luzula campestris*, *L. pilosa*, *Polygala serpyllifolia*, *Potentilla erecta*, *Primula vulgaris*, *Pseudoscleropodium purum*, *Pteridium aquilinum*, *Rhytidiadelphus squarrosus*, *Rumex acetosa*, *Thuidium tamariscinum*, *Veronica chamaedrys* and *Viola riviniana*.



Loch Brora, Kilbraur Hill (324 m) before the wind farm was built in 2010, and Carrol Rock (208 m on the right).



Carrol Rock dominates the view of the western shore as you drive up Loch Brora (Andy Coyne), dark with heather from top to bottom and skirted by extensive birch woodland carpeted with *Trientalis europaea* and *Hyacinthoides non-scripta*. To explore the Rock, you need to walk in 5km from Kilmain, but it is worth the effort for the mix of crags, woodland, heath and grassland: *Agrostis capillaris*, *Anemone nemorosa*, *Anthoxanthum odoratum*, *Asplenium adiantum-nigrum*, *Betula pubescens*, *Blechnum spicant*, *Calluna vulgaris*, *Calypogeia muelleriana*, *Carex pilulifera*, *Cladonia impexa*, *Conopodium majus*, *Corylus avellana*, *Dactylorhiza maculata maculata*, *Deschampsia flexuosa*, *Dicranum majus*, *Dicranum scoparium*, *Dryopteris dilatata*, *Erica cinerea*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Festuca ovina*, *Festuca rubra*, *Frullania tamarisci*, *Galium saxatile*, *Gymnocarpium dryopteris*, *Holcus lanatus*, *Hyacinthoides non-scripta*, *Hylocomium splendens*, *Hypnum jutlandicum*, *Isoetes myosuroides*, *Lepidozia reptans*, *Luzula campestris*, *L. multiflora*, *L. pilosa*, *Lysimachia nemorum*, *Mnium hornum*, *Oxalis acetosella*, *Peltigera aphthosa*, *Plagiochila porelloides*, *Plagiomnium undulatum*, *Plagiothecium undulatum*, *Pleurozium schreberi*, *Poa humilis*, *Polypodium vulgare*, *Polytrichum commune*, *Potentilla erecta*, *Primula vulgaris*, *Pseudoscleropodium purum*, *Pteridium aquilinum*, *Ranunculus ficaria*, *Rhytidiadelphus loreus*, *R. squarrosus*, *R. triquetrus*, *Rumex acetosa*, *Scapania nemorosa*, *Sorbus aucuparia*, *Stellaria holostea*, *Trientalis europaea*, *Vaccinium myrtillus*, *Vaccinium vitis-idaea*, *Veronica chamaedrys* and *Viola riviniana*. There are two substantial herbivore exclosures in the wood, erected to allow tree regeneration once the birch and rowan were protected from deer and sheep. The regeneration of beech *Fagus sylvatica* in the wood is regarded as a problem, and these alien trees may be removed in due course.



Looking south across The River Brora to Grumby Rock in autumn. Ian Balcombe.



The land to the south of Strath Brora is a bleak expanse of wet heath. The sugarloaf hill in the distance is Ben Tarvie (270 m) above Loch Fleet.



Strath Brora between Dalreavoch and Grumby rock is uninhabited these days but was formerly studded by crofts.



This rocky birch wood, upstream from Braegrudie, supports some of the last trees in Strath Brora.



River Brora looking south to Dalnessie and Meall a' Chaise with treeless heathery slopes on the skyline. Richard Webb.



Cotton-grass country on the path on Ben Armine. This pony path crosses Ben Armine between the two main tops : Creag a' Choire Ghlais (visible in the background) and Creag Mhòr. Here it is leaving a path junction at Seilichean and starting the gentle climb up to the pass NC 66 24. Richard Webb.



The upper reaches of Strath Brora are dominated by monotonous expanses of wet heath. Ben Armine (right) and Ben Klibreck (left) in the distance in this northwards view from Dalnessie.

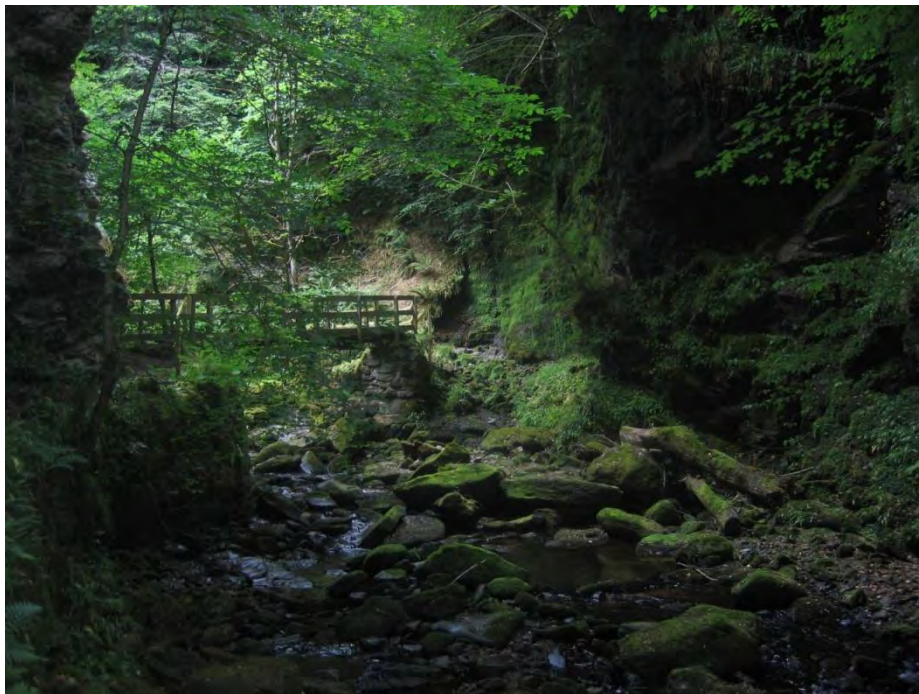


The head of Black Water above Ben Armine Lodge, at the end of the long private road from Sciberscross. The ridge of Creag Dail nan Gillean (412 m) above Strath na Seilge dominates the skyline.



Confluence in the headwaters of the Brora. Two of the burns that eventually form the Black Water. Here the Allt na Seilich Bige and Allt na Seilich Mòire meet to form the Abhainn Srath na Seilge. The latter can be a problem for cross country travellers as it is often uncrossable when in spate. The bridge by the stable, shown on some maps has long gone. The big path from Loch Choire Lodge can be seen above the Allt na Seilich Bige. Richard Webb.

Golspie Burn and Dunrobin Glen



The Big Burn Walk at Golspie follows a pleasant wooded stream with *Hyacinthoides non-scripta*, rhododendrons, *Luzula sylvatica* etc. past waterfalls festooned with bryophytes and bridges across vertical-sided chasms. Nordavind.



Dunrobin Glen above Golspie looking towards Rogart with Ben Horn on the right. Donald Bain.



Looking towards Glen Rock NC 802 034 from Aullt Badair Abhainn. Donald Bain.



Heather and forestry at the head of Dunrobin Glen. Steven Brown.



The western slopes of Ben Horn (520 m) are dominated by uniform wet heath. The interesting flora is on the crags at the eastern (extreme right hand) end of the high ridge, overlooking Strath Brora. The summit ridge is one of the most accessible places to see *Arctostaphylos alpinus*.



Arctostaphylos alpinus on the summit ridge of Ben Horn (520 m) in a dense carpet of *Calluna vulgaris* and *Cladonia* spp.



The Duke of Sutherland's Memorial (The Wee Mannie) in the distance on Ben Bhraggie (397 m) from the summit of Ben Horn (520 m), looking over Dunrobin Glen.



Carrol Rock (208 m) and Loch Brora from Ben Horn, with the massive ridge of Col-Bheinn (538 m) on the skyline.



In the middle distance is Kilbraur Hill (324 m) with Loch a Bhaididh below it. The valley of the Black Water stretches out in the distance. The cottongrass *Eriophorum vaginatum* in the foreground is on the summit of Ben Horn.



The massive Kilbraur Wind Farm dominates the skyline between Dunrobin Glen and the R. Brora. The wet heath between the towers is typically species-poor with *Anthoxanthum odoratum*, *Calluna vulgaris*, *Carex echinata*, *Carex nigra*, *Dactylorhiza maculata*, *Deschampsia flexuosa*, *Drosera rotundifolia*, *Dryopteris dilatata*, *Dryopteris filix-mas*, *Empetrum nigrum* subsp. *nigrum*, *Epilobium palustre*, *Erica tetralix*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Galium saxatile*, *Juncus bulbosus*, *Juncus squarrosus*, *Luzula multiflora* subsp. *congesta*, *Luzula multiflora* subsp. *multiflora*, *Menyanthes trifoliata*, *Molinia caerulea*, *Narthecium ossifragum*, *Pedicularis palustris*, *Polygala serpyllifolia*, *Potamogeton polygonifolius*, *Potentilla erecta*, *Ranunculus flammula*, *Rumex acetosella*, *Succisa pratensis*, *Trichophorum germanicum* and *Viola palustris*.



Loch Farlary. Donald Blain. Close to the watershed with Dunrobin Glen you will find a mix of wet heath and dry heath species, including *Agrostis capillaris*, *Anthoxanthum odoratum*, *Athyrium filix-femina*, *Betula pubescens*, *Blechnum spicant*, *Calluna vulgaris*, *Carex binervis*, *Carex echinata*, *Carex nigra*, *Carex viridula* subsp. *oedocarpa*, *Cirsium arvense*, *Cirsium palustre*, *Cytisus scoparius*, *Dactylorhiza purpurella*, *Deschampsia flexuosa*, *Digitalis purpurea*, *Drosera rotundifolia*, *Dryopteris affinis* subsp. *borreri*, *Dryopteris dilatata*, *Epilobium palustre*, *Erica cinerea*, *Erica tetralix*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Galium saxatile*, *Holcus mollis*, *Hypericum pulchrum*, *Juncus conglomeratus*, *Juncus effusus*, *Juncus squarrosus*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Luzula sylvatica*, *Molinia caerulea*, *Nardus stricta*, *Narthecium ossifragum*, *Oxalis acetosella*, *Pedicularis sylvatica*, *Picea sitchensis*, *Pinguicula vulgaris*, *Poa humilis*, *Polygala serpyllifolia*, *Potentilla erecta*, *Pteridium aquilinum*, *Ranunculus flammula*, *Rumex acetosa*, *Salix aurita*, *Salix cinerea* subsp. *oleifolia*, *Sorbus aucuparia*, *Trichophorum germanicum*, *Trifolium repens*, *Urtica dioica*, *Vaccinium myrtillus*, *Veronica chamaedrys*, *Veronica officinalis*, *Viola palustris* and *Viola riviniana*.

Strath Fleet

The most celebrated woodland in vc. 107 is Balblair Wood which lies on the northeast shore of Loch Fleet, 3 km south of Golspie [NH 809 977]. The woodland is currently a pine plantation, established after a great storm in 1905, but the ground flora is thought to be a remnant of previous ancient Caledonian woodland. Here you will find *Goodyera repens*, *Trientalis europaea* and *Pyrola minor*, but the real stars of the show are the two Red Data Book species *Moneses uniflora* (here, in its most abundant Scottish population) and *Linnaea borealis* (photos on p. 517).

The Mound alder woods (Grade I SSSI) were created by an embankment completed in 1818 across the head of Loch Fleet [NH 763 988]. The wetter parts of the *Salix cinerea* woodland are dominated

by *Deschampsia cespitosa* and *Juncus effusus*, with *Carex remota*, *Agrostis canina* and *Holcus lanatus*. In the wet alder woods you will find *Senecio aquaticus*, *Hydrocotyle vulgaris*, *Galium palustre* and *Filipendula ulmaria*, while swampy clearings have a fen vegetation comprising *Carex nigra*, *Eleocharis palustris*, *Potentilla palustris*, *Succisa pratensis*, *Pedicularis palustris*, *Eriophorum angustifolium*, *Juncus articulatus*. A local speciality is *Carex serotina*. The slightly drier, more acid ridges are dominated by *Pinus sylvestris*, with *Myrica gale*, *Molinia caerulea*, *Hydrocotyle vulgaris*, *Carex echinata* and *Ranunculus flammula*.

Torboll Woods, on the southern shore of Loch Fleet west of Cambusmore [NH 747 983], line the slopes and gorges above Strath Carnaig. The wood supports an interesting mix of *Betula pubescens* and *Quercus x rosacea* along with *Ulmus glabra*, *Sorbus aucuparia*, *Populus tremula*, *Prunus padus*, *Alnus glutinosa* and various *Salix* species. Uncommon plants of the woodland ground flora include *Melica nutans*, *Festuca altissima*, *Vicia sylvatica* and *Circaea x intermedia*, along with more widespread species including *Brachypodium sylvaticum*, *Galium odoratum* and *Chrysosplenium oppositifolium*. These woods form part of a delightful circular walk (7km) that begins at The Mound and ends up at the superb viewpoint of Princess Cairn on the summit (261m) above Cambusmore Lodge.



Marian's Rock (Sylvia Duckworth). Species-rich, south-facing rocky outcrops south of Morvich in Strath Fleet with *Anthoxanthum odoratum*, *Arabis hirsuta*, *Asplenium trichomanes*, *Campanula rotundifolia*, *Cerastium fontanum*, *Festuca rubra*, *Geranium robertianum*, *Myosotis discolor*, the Red Data Book species *Potentilla rupestris*, *Sagina subulata*, *Saxifraga granulata*, *Sorbus aria*, the rare *Sorbus rupicola*, *Teucrium scorodonia*, *Thymus polytrichus*, *Valerianella locusta*, *Veronica officinalis*, *Veronica serpyllifolia* and the rare *Vicia lathyroides*.

Just to the east of Rogart Station is a small oak woodland at Morvich [NC 755 009], overlooking Strath Fleet. There are some impressive veteran oak trees here, above an essentially grassy understory vegetation, with *Deschampsia flexuosa* and *Anthoxanthum odoratum*. *Oxalis acetosella*, *Teucrium scorodonia* and *Melampyrum pratense*. The rocks on the dry, sunny slope above the wood are home to several rarities, including *Potentilla rupestris*, *Ajuga pyramidalis* and *Sorbus rupicola*.



Looking north over Rogart station to gorse-covered lower slopes and the heathery ridge of Creag a Bhata. Sylvia Duckworth. The village of Rogart is home to several species with very restricted distributions within vc. 107 including *Barbarea vulgaris*, *Equisetum pratense*, *Lemna minor*, *Lepidium heterophyllum*, *Nupha pumila*, *Lythrum portula*, *Teesdalia nudicaulis* and *Vulpis myuros*.



The treeless interior north of Rogart, looking north over dry heath to the standing stones at Achnagarron. Donald Bain.



Moorland above Strath Fleet near Muie . Sylvia Duckworth. Some of the valley woodlands around Little Rogart are very rich in species. At Balclaggan Rock birch wood, for instance [NC730042], we find *Adoxa moschatellina*, *Ajuga reptans*, *Allium ursinum*, *Anemone nemorosa*, *Anthoxanthum odoratum*, *Betula pubescens*, *Cardamine pratensis*, *Cirsium palustre*, *Cirsium vulgare*, *Conopodium majus*, *Corylus avellana*, *Deschampsia flexuosa*, *Dryopteris filix-mas*, *Galium odoratum*, *Holcus mollis*, *Hyacinthoides non-scripta*, *Juniperus communis*, *Lathyrus linifolius*, *Luzula pilosa*, *Luzula sylvatica*, *Oxalis acetosella*, *Primula vulgaris*, *Prunus padus*, *Prunus spinosa*, *Pteridium aquilinum*, *Ranunculus ficaria*, *Rumex acetosa*, *Sagina procumbens*, *Salix aurita*, *Silene dioica*, *Stachys sylvatica*, *Stellaria holostea*, *Valeriana officinalis*, *Veronica chamaedrys*, *Vicia sepium* and *Viola riviniana*.



Looking south down Strath Fleet to Muie NC 67 04 . Sylvia Duckworth.



From the remote farm at Achnaluachrach, looking across rushy grasslands towards Meall a'Chaise. Richard Webb. Heathy ditches hereabouts provide a welcome boost to plant diversity, with *Achillea millefolium*, *Achillea ptarmica*, *Agrostis capillaris*, *Anthoxanthum odoratum*, *Anthriscus sylvestris*, *Bellis perennis*, *Calluna vulgaris*, *Carex binervis*, *Carex flacca*, *Cirsium palustre*, *Conopodium majus*, *Cynosurus cristatus*, *Dactylis glomerata*, *Dactylorhiza maculata*, *Dactylorhiza purpurella*, *Dactylorhiza x formosa*, *Deschampsia cespitosa* subsp. *cespitosa*, *Deschampsia flexuosa*, *Drosera rotundifolia*, *Empetrum nigrum* subsp. *nigrum*, *Erica tetralix*, *Festuca rubra*, *Galeopsis tetrahit*, *Galium saxatile*, *Gymnadenia borealis*, *Holcus lanatus*, *Hypochaeris radicata*, *Juncus conglomeratus*, *Juncus effusus*, *Juncus squarrosus*, *Lathyrus linifolius*, *Lotus corniculatus*, *Luzula pilosa*, *Myosotis secunda*, *Nardus stricta*, *Picea abies* seedlings, *Picea sitchensis* seedlings, *Pilosella officinarum*, *Pinguicula vulgaris*, *Plantago lanceolata*, *Poa humilis*, *Poa pratensis*, *Polygala serpyllifolia*, *Potentilla erecta*, *Primula vulgaris*, *Pteridium aquilinum*, *Ranunculus acris*, *Ranunculus flammula*, *Ranunculus repens*, *Rhinanthus minor*, *Rumex acetosa*, *Salix repens*, *Stellaria media*, *Succisa pratensis*, *Trientalis europaea*, *Trifolium repens* and *Viola palustris*



Looking across wet heath towards Loch Preas nan Sgiathanach from the road to Achnaluachrach. Donald Bain.



Looking towards Bardachan between East and West Langwell. Donald Bain. The wet heath supports *Agrostis canina*, *Anthoxanthum odoratum*, *Blechnum spicant*, *Calluna vulgaris*, *Carex binervis*, *Carex echinata*, *Carex flacca*, *Carex nigra*, *Deschampsia flexuosa*, *Empetrum nigrum* subsp. *nigrum*, *Epilobium palustre*, *Erica tetralix*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Festuca filiformis*, *Galium saxatile*, *Holcus lanatus*, *Juncus conglomeratus*, *Juncus effusus*, *Juncus squarrosus*, *Luzula multiflora* subsp. *congesta*, *Nardus stricta*, *Oreopteris limbosperma*, *Pedicularis sylvatica*, *Polygala serpyllifolia*, *Potentilla erecta*, *Ranunculus acris*, *Trichophorum germanicum*, *Trientalis europaea*, *Vaccinium myrtillus* and *Viola palustris*.

R. Evelix



River Evelix near Rearquhar NH 72 93 west of Dornoch. Sylvia Duckworth.



Torboll waterfall in Strath Carnaig. The birch woods are rich in species with *Achillea ptarmica*, *Agrostis capillaris*, *Agrostis stolonifera*, *Aira praecox*, *Ajuga reptans*, *Alchemilla glabra*, *Angelica sylvestris*, *Antennaria dioica*, *Anthoxanthum odoratum*, *Aphanes arvensis*, *Aphanes australis*, *Athyrium filix-femina*, *Bellis perennis*, *Betula pubescens*, *Blechnum spicant*, *Calluna vulgaris*, *Campanula rotundifolia*, *Cardamine flexuosa*, *Cardamine hirsuta*, *Cardamine pratensis*, *Carex binervis*, *Carex demissa*, *Carex echinata*, *Carex flacca*, *Carex panicea*, *Cerastium fontanum*, *Chamerion angustifolium*, *Cirsium arvense*, *Cirsium palustre*, *Cirsium vulgare*, *Crepis capillaris*, *Crepis paludosa*, *Cynosurus cristatus*, *Dactylorhiza maculata* subsp. *erictorum*, *Danthonia decumbens*, *Deschampsia flexuosa*, *Drosera anglica*, *Drosera rotundifolia*, *Epilobium palustre*, *Equisetum palustre*, *Equisetum sylvaticum*, *Erica cinerea*, *Erica tetralix*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Festuca rubra*, *Filipendula ulmaria*, *Fragaria vesca*, *Galium boreale*, *Galium saxatile*, *Gentianella campestris*, *Geranium robertianum*, *Geum rivale*, *Gymnadenia borealis*, *Helianthemum nummularium*, *Helictotrichon pratense*, *Holcus lanatus*, *Holcus mollis*, *Hypericum pulchrum*, *Hypochaeris radicata*, *Isolepis setacea*, *Juncus acutiflorus*, *Juncus articulatus*, *Juncus bulbosus*, *Juncus conglomeratus*, *Juncus effusus*, *Juncus squarrosus*, *Lathyrus linifolius*, *Leontodon autumnalis*, *Linum catharticum*, *Listera cordata*, *Lolium perenne*, *Lotus corniculatus*, *Luzula campestris*, *Luzula multiflora* subsp. *congesta*, *Luzula multiflora* subsp. *multiflora*, *Luzula sylvatica*, *Lysimachia nemorum*, *Melampyrum pratense* subsp. *pratense*, *Molinia caerulea* subsp. *caerulea*, *Montia fontana* subsp. *fontana*, *Myosotis discolor*, *Myosotis secunda*, *Myrica gale*, *Nardus stricta*, *Narthecium ossifragum*, *Oreopteris limbosperma*, *Oxalis acetosella*, *Phegopteris connectilis*, *Pilosella officinarum*, *Pinguicula vulgaris*, *Pinus sylvestris*, *Plantago lanceolata*, *Plantago major*, *Poa annua*, *Poa trivialis*, *Polygala serpyllifolia*, *Potamogeton polygonifolius*, *Potentilla erecta*, *Primula vulgaris*, *Prunella vulgaris*, *Prunus spinosa*, *Pteridium aquilinum*, *Pyrola minor*, *Ranunculus acris*, *Ranunculus flammula*, *Ranunculus repens*, *Rumex acetosa*, *Rumex acetosella*, *Rumex obtusifolius*, *Sagina procumbens*, *Salix aurita*, *Salix repens*, *Schoenus nigricans*, *Senecio jacobaea*,

Senecio sylvaticus, *Sinapis arvensis*, *Sonchus asper*, *Sorbus aucuparia*, *Stellaria graminea*, *Succisa pratensis*, *Teucrium scorodonia*, *Thalictrum minus*, *Thymus polytrichus* subsp. *britannicus*, *Trifolium repens*, *Triglochin palustre*, *Trollius europaeus*, *Ulex europaeus*, *Vaccinium vitis-idaea*, *Veronica chamaedrys*, *Veronica officinalis*, *Vicia cracca*, *Vicia sepium* and *Viola riviniana*. Donald Bain.



Looking north across birch woodland in Strath Carnaig NH 73 98 Graeme Smith.

Kyle of Sutherland



Loch Migdale from the dam at the western end. The crags on Migdale Rock (top right) are rich in rare plant species. Sylvia Duckworth. The pine wood at Migdale [NH 651 907] is one of the most northerly in Britain, where *Pinus sylvestris* grows with *Quercus x rosacea*, *Populus tremula*, *Betula pubescens* and *Sorbus aucuparia*. The heathy ground flora of *Calluna vulgaris* and *Vaccinium myrtillus* has orchids like *Listera cordata* and *Goodyera repens* with *Primula vulgaris*, *Ajuga reptans* and *Hyacinthoides non-scripta*. The rocky slopes above the wood have abundant *Juniperus communis* and *Arctostaphylos uva-ursi* while the crags support rarities including *Ajuga pyramidalis* and *Potentilla rupestris*.



Looking West from A'Chraigs with Migdale Rock on the right NH 65 90. Sylvia Duckworth.



Spinningdale Bog in the middle distance in Creich Wood by the Spinningdale Burn. Several rarities grow here including *Hammarbya paludosa* and *Corallorhiza trifida* . Sarah McGuire.



Looking towards Migdale Rock from NH 64 90. Donald Bain. Migdale Loch is out of sight below the trees. The south-facing Migdale Rock is home to *Ajuga pyramidalis*, *Anthoxanthum odoratum*, *Anthyllis vulneraria*, *Asplenium adiantum-nigrum*, *Asplenium ruta-muraria*, *Brachypodium sylvaticum*, *Calluna vulgaris*, *Danthonia decumbens*, *Erica cinerea*, *Festuca rubra*, *Fragaria vesca*, *Galium verum*, *Grimmia ovalis*, *Helianthemum nummularium*, *Hypericum pulchrum*, *Lotus corniculatus*, *Melica nutans*, *Nardus stricta*, *Plantago lanceolata*, *Potentilla rupestris*, *Primula vulgaris*, *Rosa spinosissima*, *Teucrium scorodonia*, *Thymus polytrichus*, *Veronica chamaedrys*, *Veronica serpyllifolia* and *Vicia lathyroides*.

R. Fiag

This valley runs south from the slopes of Ben Hee into the northern part of Loch Shin.



The Fiag Road. This area is exceptionally species poor. Donald Bain.



The Fiag Burn in a very dry condition with Ben Hee in the distance NC 46 22. Donald Bain.



The ruin at Fiag looking down towards the River Fiag NC 45 24. Donald Bain.



Precariously growing *Sorbus aucuparia* in a rock cleft, above Loch Coire na Saidhe Duibhe on the northeast flank of Ben Hee. Nick Lindsay.

Loch Shin



Looking south from the western shore of Loch Shin towards Lairg. Sallachy is on the far shore.



The well-vegetated old bridge over R. Shin at Invershin NC 57 97. John Lord. Here you will find *Acer platanoides*, *Achillea millefolium*, *Agrostis capillaris*, *Alnus glutinosa*, *Asplenium trichomanes* subsp. *quadrivalens*, *Betula pendula*, *Betula pubescens*, *Calluna vulgaris*, *Caltha palustris*, *Chamerion angustifolium*, *Dryopteris filix-mas*, *Festuca rubra*, *Fragaria ananassa*, *Fraxinus excelsior*, *Heracleum sphondylium*, various *Hieracium* species, *Lapsana communis*, seedlings of *Picea sitchensis*, *Plantago lanceolata*, *Polypodium vulgare*, *Pteridium aquilinum*, *Rubus idaeus*, *Salix aurita*, *Senecio jacobaea*, *Sorbus aucuparia*, *Stellaria holostea*, *Ulex europaeus*, *Ulmus glabra* and *Valeriana officinalis*.



Loch Shin by the River Fiaig NC 46 20. Pete Simpson.



Lairg Power Station lies at the southern end of an extensive chain of major lochs. Donald Bain.



The huge Loch Shin (more than 25 km long) occupies most of the valley, then to the north are the much smaller Loch a'Ghriama and Loch Merkland. Loch Shin is bounded by ridges of low, heathery hills covered by peat. From north to south on the western watershed which separates Loch Shin from Glen Cassley (left of the picture), we see Maovally (510 m), Beinn Sgreamhaidh (435 m) then Beinn Sgeireach (476 m). The hills on the eastern side are lower: Druim na Claise Carnaich (284 m) and Sidhean Dubh Mor (229 m). Irvine Smith. The flora of these hills is exemplified by the following list from Sallachy [NC 532 080] on the western bank of Loch Shin: *Achillea millefolium*, *Achillea ptarmica*, *Agrostis capillaris*, *Agrostis stolonifera*, *Agrostis vinealis*, *Aira praecox*, *Ajuga reptans*, *Alchemilla glabra*, *Anemone nemorosa*, *Angelica sylvestris*, *Anthoxanthum odoratum*, *Betula pendula*, *Betula pubescens*, *Betula pubescens* subsp. *tortuosa*, *Blechnum spicant*, *Calluna vulgaris*, *Campanula rotundifolia*, *Carex binervis*, *C. demissa*, *C. dioica*, *C. echinata*, *C. flacca*, *C. nigra*, *C. ovalis*, *C. pallescens*, *C. panicea*, *C. pulicaris*, *Cerastium fontanum*, *Cirsium heterophyllum*, *Cirsium palustre*, *Cirsium vulgare*, *Conopodium majus*, *Crepis paludosa*, *Cynosurus cristatus*, *Dactylorhiza maculata* subsp. *ericetorum*, *Danthonia decumbens*, *Deschampsia flexuosa*, *Digitalis purpurea*, *Drosera anglica*, *Drosera rotundifolia*, *Empetrum nigrum* subsp. *nigrum*, *Epilobium palustre*, *Equisetum palustre*, *Equisetum sylvaticum*, *Erica tetralix*, *Eriophorum angustifolium*, *Euphrasia arctica* subsp. *borealis*, *Festuca arundinacea*, *Festuca ovina*, *Festuca rubra*, *Filipendula ulmaria*, *Galium palustre*, *Galium saxatile*, *Galium verum*, *Gentianella campestris*, *Geum rivale*, *Gymnocarpium dryopteris*, *Holcus mollis*, *Hyacinthoides non-scripta*, *Hypericum pulchrum*, *Juncus acutiflorus*, *Juncus articulatus*, *Juncus bufonius*, *Juncus conglomeratus*, *Juncus squarrosus*, *Lathyrus linifolius*, *Leontodon autumnalis*, *Listera cordata*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Luzula multiflora* subsp. *multiflora*, *Luzula pilosa*, *Luzula sylvatica*, *Lysimachia nemorum*, *Matricaria discoidea*, *Melampyrum pratense* subsp. *pratense*, *Molinia caerulea* subsp. *caerulea*, *Montia fontana* subsp. *fontana*, *Myrica gale*, *Nardus stricta*, *Narthecium ossifragum*, *Oreopteris limbosperma*, *Oxalis acetosella*, *Pedicularis sylvatica*, *Phegopteris connectilis*, *Pinguicula vulgaris*,

Plantago major, Poa trivialis, Polygala serpyllifolia, Polygonum aviculare, Polypodium vulgare, Potamogeton polygonifolius, Potentilla erecta, Primula vulgaris, Prunella vulgaris, Pteridium aquilinum, Ranunculus acris, Ranunculus auricomus, Ranunculus flammula, Ranunculus repens, Rumex acetosella, Salix aurita, Salix cinerea subsp. oleifolia, Selaginella selaginoides, Sorbus aucuparia, Stellaria holostea, Stellaria media, Succisa pratensis, Trientalis europaea, Trifolium repens, Triglochin palustre, Vaccinium myrtillus, Valeriana officinalis, Veronica chamaedrys, Veronica officinalis, Viola palustris and Viola riviniana.



The opposite view of Loch Shin, looking from the ruined croft at Arsaig eastwards across the loch to the western shore of The Airde, a large, uninhabited promontory in the centre of Loch Shin which is dominated by wet heath but with an interesting birch woodland at its southern end (just visible here in the mid distance).



Part of the famous salmon-leap at Shin Falls NH 57 99. Dorcas Sinclair.



Between Loch Shin and Loch Merkland sits Creag nan Suibheag (466 m) with its craggy patch of native woodland. This is the view westwards from Merkland Lodge.



Creag nan Suibheag (466 m) on the horizon above the western shore of Loch Merkland. The construction of a new road on the far bank is part of a hydro electricity scheme for the local estate (rather than yet another wind farm).



Doire Dubh forms the watershed between Loch Merkland and Loch More. The stream on the right drains north into Loch More (vc. 108), while the stream on the left (Allt Criche) drains south into Loch Merkland then Loch Shin (vc. 107). The centre of the slope marks the boundary between the botanical vice counties of East Sutherland on the left and West Sutherland on the right. Behind the ridge, the ground rises to Meall an Fheur Loch (613 m) then on to Meallan a' Chuain (750 m).

R. Cassley

The river flows into R. Oykel at Rosehall from its source on the vice county boundary north of Ben More Assynt.



Glen Cassley. The Rosehall Bridge from the north side looking down the Cassley River. Donald Bain.



The Falls of Achness on the River Cassley. Donald Curry.



R. Cassley in spate at Achness Water Falls Rosehall. AlastairG.



Birch woods in Glen Cassley. Sylvia Duckworth.



River Cassley in NC 45 05. Sylvia Duckworth.



Gorse and bracken by Drochaid Allt an Rasail from the bridge in Glen Cassley. Graeme Smith.



An old oak in Glen Cassley NC 44 06. Sylvia Duckworth.



Glencassley Castle with its modern extension.

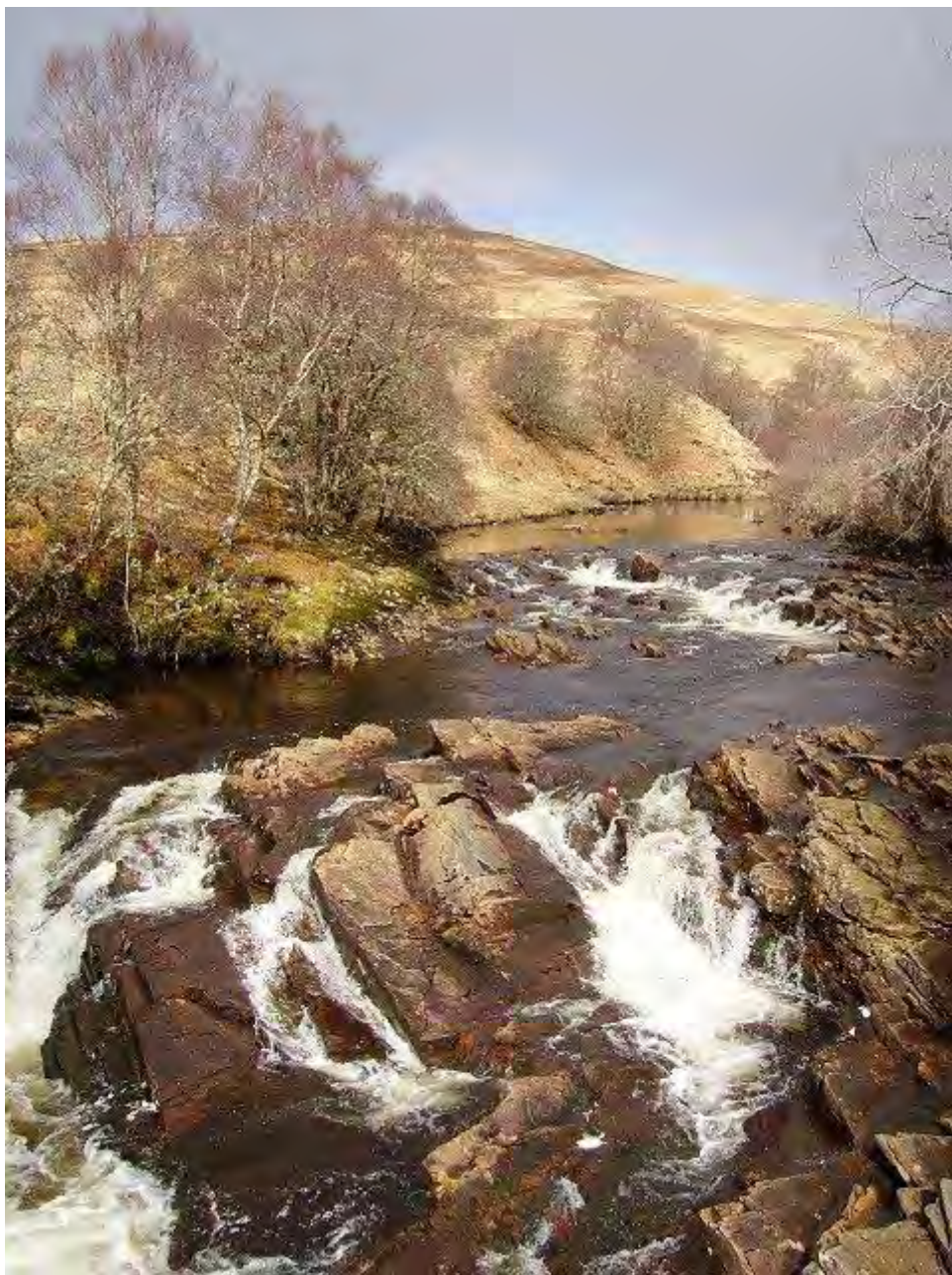
Donald Bain.



A small copse surrounded by acid grassland in Glen Cassley NC 43 08. Graeme Smith. Acid grasslands of the interior contain many species that we tend to think of as woodland plants such as wood sorrel, primrose and violet: *Agrostis capillaris*, *Anthoxanthum odoratum*, *Calluna vulgaris*, *Cardamine flexuosa*, *Deschampsia flexuosa*, *Digitalis purpurea*, *Festuca ovina*, *Galium saxatile*, *Holcus mollis*, *Hylocomium splendens*, *Oxalis acetosella*, *Plagiomnium undulatum*, *Poa humilis*, *Potentilla erecta*, *Primula vulgaris*, *Pseudoscleropodium purum*, *Pteridium aquilinum*, *Rumex acetosa*, *Rumex crispus*, *Succisa pratensis*, *Teucrium scorodonia*, *Veronica chamaedrys* and *Viola riviniana* .



Wet grassland flanking the R Cassley, with the birch woods at Coille na Croice from the Glen Cassley road beneath Langwell Hill.



River Cassley looking upstream at a steep section of the river in NC 39 13. Richard Webb.



Lower part of Easan na Gaibhrie waterfall on River Cassley. Graeme Smith.



Upper part of Easan na Gaibhrie waterfall on River Cassley. Graeme Smith.



Looking up Glen Cassley to the ruin of Dalnaclave in NC 39 16. Graeme Smith.



The lowest waterfall on Allt na Chnoic Glais. Graeme Smith.



View towards the head of Glen Cassley from near the waterfalls. Graeme Smith.



Ben More Assynt from Glen Cassley, with its southern satellite of Meall an Aonaich (714 m) in the middle distance. Sylvia Duckworth.



R Cassley footbridge at Duchally Lodge, with the ruins of the croft at Dalnaclave in the middle distance. On the stonework of the ruins you will find *Blechnum spicant*, *Cardamine pratensis*, *Chamerion angustifolium*, *Cirsium palustre*, *Cirsium vulgare*, *Deschampsia cespitosa*, *Deschampsia flexuosa*, *Festuca ovina*, *Poa compressa*, *Ranunculus repens*, *Sorbus aucuparia*, *Trifolium repens* and *Urtica dioica*. The damp grassland by the bridge has *Agrostis capillaris*, *Alchemilla alpina*, *Alnus glutinosa*, *Anemone nemorosa*, *Angelica sylvestris*, *Anthoxanthum odoratum*, *Athyrium filix-femina*, *Betula pubescens*, *Blechnum spicant*, *Calluna vulgaris*, *Carex binervis*, *Carex dioica*, *Carex flacca*, *Carex nigra*, *Cirsium palustre*, *Digitalis purpurea*, *Dryopteris filix-mas*, *Festuca rubra*, *Galium saxatile*, *Holcus lanatus*, *Hypochaeris radicata*, *Juncus squarrosus*, *Lathyrus linifolius*, *Luzula multiflora* subsp. *congesta*, *Luzula multiflora* subsp. *multiflora*, *Molinia caerulea*, *Nardus stricta*, *Oxalis acetosella*, *Pedicularis sylvatica*, *Pinguicula vulgaris*, *Polygala serpyllifolia*, *Potentilla erecta*, *Primula vulgaris*, *Prunella vulgaris*, *Pteridium aquilinum*, *Ranunculus acris*, *Ranunculus ficaria*, *Ranunculus repens*, *Rumex acetosa*, *Salix aurita*, *Senecio jacobaea*, *Sorbus aucuparia*, *Teucrium scorodonia*, *Thymus polytrichus* and *Viola riviniana*.

This is where the public road up Glen Cassley ends. The long walk up Ben More Assynt begins with a 6 km slog across the wet heath, west from the footbridge to the ridge of Meall an Aonaich (714 m) before starting the climb to the summit (998 m). Then, of course, you have to come back to your car (another 10 km). It is little wonder that most people climb Ben More Assynt from Inchnadamph, on the vc. 108 side of the mountain.



The dam on the R Cassley at Duchally power station NC 36 20. Graeme Smith.



The rough track continues north-westwards beyond the power station towards Fionn Loch Beag, under the giant flanks of the eastern ridges of Ben More Assynt.



Fionn Loch Mòr is north of Ben More Assynt (seen from NC 303 215). The loch is one of the headwaters of the River Cassley which drains this high moor to the south. View from near the quartzite crags of Na Tuadhan (860 m), 1.5km north of Conival. Loch Shin can be seen in the background across the watershed to the east . Richard Webb.



Peat hags and wet heath cover this area to the east of the Fionn Allt (Andrew Spenceley). Conival forms the skyline to the left, with Beinn an Fhurain (860 m) in the centre. Above the wet heath, heather-dominated dry-heath gradually peters out with increasing altitude, as the vegetation becomes progressively more adapted to exposure (on the ridge-tops), or to prolonged snow-lie (in more sheltered, north- and east-facing spots). Towards the high ridges, we begin to find plants like *Rubus chamaemorus*, *Cornus suecica*, *Vaccinium uliginosum*, *Betula nana* and *Arctostaphylos alpinus*. The ridge-tops are typically of stones and bare peat, interspersed with patches of *Racomitrium* heath with *Arctostaphylos alpinus*, *Kalmia procumbens*, *Empetrum nigrum* subsp. *hermaphroditum*, *Carex bigelowii*, *Minuartia sedoides*, *Festuca vivipara*, *Juncus trifidus*, *Salix myrsinites*, *Saxifraga oppositifolia* and *Carex capillaris*. The latest-lying snow beds are dominated by *Nardus stricta*, studded with *Alchemilla alpina*, *Cornus suecica*, *Vaccinium uliginosum*, *Hylocomium splendens* with *Sibbaldia procumbens*.



Loch Bealach a' Mhadaidh Keith Cunneen



View north to Arkle (787 m) and Foinaven (911 m) from the path over Mullach an Leathaid Riabhaich (720 m) above the headwaters of the R Cassley (NC 294 245). Jim Barton.



Ben More Assynt and Na Tuadhan, taken from the south-eastern slopes of Mullach an Leathaidh Riabhaich. Sally.

R. Oykel



Floodwaters in R. Oykel at Altass (Sylvia Duckworth). Oykel Marshes are a Grade 1 SSSI [NH 510 980] in a wide alluvial flood plain with *Silene flos-cuculi*, *Carex rostrata*, *Filipendula ulmaria*, *Hydrocotyle vulgaris*, *Iris pseudacorus*, *Ranunculus flammula*, *Juncus acutiflorus*, *Potentilla palustris* and *Viola palustris* NC 50 99. Marshy meadows by the R. Oykel in the Kyle of Sutherland are fringed with alder, willow, *Filipendula ulmaria* and *Iris pseudacorus*. The Red Data Book species *Carex recta*, Estuarine Sedge, forms extensive patches on the banks of tidal reaches of the Kyle, growing with *C. aquatilis* and *C. nigra*.



Carex recta by the R Oykel at Altass.

Peter Llewellyn.



Ravens Rock Gorge [NC 496 010] (Anne Burgato) near Altass is a picturesque ravine, rich in plant species, including *Abies alba*, *Agrostis stolonifera*, *Aira praecox*, *Ajuga reptans*, *Anemone nemorosa*, *Anthoxanthum odoratum*, *Aphanes australis*, *Arrhenatherum elatius*, *Bellis perennis*, *Betula pubescens*, *Blechnum spicant*, *Calluna vulgaris*, *Carex laevigata*, *Carex sylvatica*, *Crepis paludosa*, *Deschampsia cespitosa* subsp. *cespitosa*, *Deschampsia flexuosa*, *Dryopteris affinis* subsp. *borreri*, *Dryopteris dilatata*, *Epilobium montanum*, *Equisetum sylvaticum*, *Fagus sylvatica*, *Filipendula ulmaria*, *Fragaria vesca*, *Galium odoratum*, *Galium palustre*, *Galium saxatile*, *Geum rivale*, *Glyceria fluitans*, *Goodyera repens*, *Gymnocarpium dryopteris*, *Holcus lanatus*, *Holcus mollis*, *Hypericum pulchrum*, *Hypericum x inodorum* 'Elstead', *Hypochaeris radicata*, *Larix decidua*, *Lonicera periclymenum*, *Luzula multiflora* subsp. *congesta*, *Luzula pilosa*, *Luzula sylvatica*, *Molinia caerulea* subsp. *caerulea*, *Myosotis scorpioides*, *Orthilia secunda*, *Oxalis acetosella*, *Picea abies*, *Picea sitchensis*, *Pinus sylvestris*, *Polypodium interjectum*, *Polystichum aculeatum*, *Potentilla erecta*, *Pteridium aquilinum*, *Pyrola minor*, *Ranunculus acris*, *Ranunculus flammula*, *Ranunculus repens*, *Rhododendron ponticum*, *Rubus idaeus*, *Rubus saxatilis*, *Sanicula europaea*, *Senecio jacobaea*, *Sorbus aucuparia*, *Succisa pratensis*, *Teucrium scorodonia*, *Ulex europaeus*, *Vaccinium myrtillus*, *Vaccinium vitis-idaea*, *Valeriana officinalis*, *Veronica serpyllifolia*, *Vicia sylvatica*, *Vicia sepium* and *Viola riviniana*.

Kyle of Sutherland



Maikel in May NH 60 93. Kevin Philpott.



Lairg Road in the linear village of Bonar Bridge NH 60 92. Donald Bain. Here you will find *Aegopodium podagraria*, *Agrostis capillaris*, *Ajuga reptans* 'Variegata', *Alchemilla mollis*, *Allium schoenoprasum*, *Anthriscus sylvestris*, *Arabidopsis thaliana*, *Aubrieta deltoidea*, *Buddleja davidii*, *Cardamine hirsuta*, *Cardamine pratensis*, *Centaurea montana*, *Centaurea nigra*, *Cerastium tomentosum*, *Chamerion angustifolium*, *Cirsium arvense*, *Cirsium vulgare*, *Convallaria majalis*, *Crataegus monogyna*, *Cymbalaria muralis*, *Cytisus scoparius*, *Dactylis glomerata*, *Dryopteris filix-mas*, *Epilobium montanum*, *Erophila verna*, *Euphorbia dulcis*, *Euphorbia griffithii*, *Festuca rubra*, *Filipendula ulmaria*, *Galium aparine*, *Geranium dissectum*, *Geranium molle*, *Heracleum sphondylium*, *Heuchera sanguinea*, *Holcus lanatus*, *Hyacinthoides non-scripta*, *Hyacinthoides x massartiana*, *Hypericum calycinum*, *Iris pseudacorus*, *Lapsana communis*, *Larix kaempferi*, *Lathyrus pratensis*, *Lunaria annua*, *Lysimachia punctata*, *Malus domestica*, *Meconopsis cambrica*, *Muscari armeniacum*, *Myosotis arvensis*, *Myosotis discolor*, *Paeonia officinalis*, *Plantago lanceolata*, *Poa annua*, *Poa nemoralis*, *Poa pratensis*, *Polemonium caeruleum*, *Prunus avium* 'Plena', *Ranunculus acris*, *Ranunculus repens*, *Ribes sanguineum*, *Rosa rugosa*, *Rumex acetosa*, *Rumex crispus*, *Rumex obtusifolius*, *Sagina procumbens*, *Salix x sepulcralis*, *Sedum acre*, *Senecio jacobaea*, *Senecio vulgaris*, *Solanum dulcamara*, *Sonchus oleraceus*, *Stellaria media*, *Syringa vulgaris*, *Tanacetum parthenium*, *Trifolium pratense*, *Trifolium repens*, *Tulipa gesneriana*, *Ulex europaeus*, *Urtica dioica*, *Veronica arvensis*, *Veronica beccabunga*, *Veronica hederifolia* subsp. *hederifolia*, *Vicia hirsuta* and *Vinca minor*.



Bonar Bridge from the vc. 107 side, looking across into vc. 106. Phil Williams.



The Kyle south of Bonar Bridge looking into vc. 106 NH 61 90. Donald Bain.



Little Criech cemetery, with the Dornoch Firth in the distance (Donald Bain). Most burial grounds in East Sutherland are rather species-poor; this one is typical, with only *Acer pseudoplatanus*, *Achillea millefolium*, *Agrostis capillaris*, *Anthoxanthum odoratum*, *Arrhenatherum elatius*, *Bellis perennis*,

Cirsium arvense, *Crepis capillaris*, *Festuca rubra*, *Fraxinus excelsior*, *Galium aparine*, *Hedera helix*, *Heracleum sphondylium*, *Holcus lanatus*, *Hypochaeris radicata*, *Leucanthemum vulgare*, *Matricaria discoidea*, *Myosotis arvensis*, *Plantago lanceolata*, *Plantago major*, *Poa annua*, *Poa pratensis*, *Prunella vulgaris*, *Ranunculus repens*, *Rumex acetosa*, *Sagina procumbens*, *Senecio jacobaea*, *Senecio vulgaris*, *Stellaria media*, *Taxus baccata*, *Trifolium repens*, *Urtica dioica* and *Veronica chamaedrys*.



Ledmore Wood near Spinningdale [NH 664 891] Donald Blain. This is a splendid oak woodland (managed by the Woodland Trust) on acid soil with *Acer pseudoplatanus*, *Ajuga reptans*, *Anthoxanthum odoratum*, *Betula pendula*, *Betula pubescens*, *Blechnum spicant*, *Brachypodium sylvaticum*, *Bromopsis ramosa*, *Calluna vulgaris*, *Circaea lutetiana*, *Corylus avellana*, *Cytisus scoparius*, *Dactylis glomerata*, *Deschampsia flexuosa*, *Dicranum majus*, *Digitalis purpurea*, *Dryopteris affinis* subsp. *borreri*, *Dryopteris filix-mas*, *Elytrigia repens*, *Erica cinerea*, *Fraxinus excelsior*, *Evernia prunastri*, *Galium saxatile*, *Geranium robertianum*, *Hedera helix*, *Holcus lanatus*, *Holcus mollis*, *Hyacinthoides non-scripta*, *Hypericum pulchrum*, *Hypochaeris radicata*, *Ilex aquifolium*, *Juniperus communis*, *Lapsana communis*, *Larix decidua*, *Lathyrus linifolius* *Lonicera periclymenum*, *Luzula sylvatica*, *L. multiflora*, *L. campestris* and *L. pilosa*, *Melampyrum pratense*, *Oxalis acetosella*, *Plantago major*, *Pleurozium schreberi*, *Potentilla erecta*, *Populus tremula*, *Primula vulgaris*, *Pteridium aquilinum*, *Quercus x rosacea* (f) *Quercus robur* (r), *Quercus petraea* (r), *Ranunculus repens*, *Rhytidiadelphus loreus*, *Rhytidiadelphus triquetrus*, *Rumex crispus*, *Sanicula europaea*, *Solidago virgaurea*, *Sonchus arvensis*, *Sorbus aucuparia*, *Stellaria holostea*, *Succisa pratensis*, *Teucrium scorodonia*, *Thuidium tamariscinum*, *Trientalis europaea*, *Ulex europaeus*, *Vaccinium myrtillus*, *V. vitis-idea*, *Valeriana officinalis*, *Veronica officinalis* *Vicia sepium* and *Viola riviniana*. The more basic ground has *Brachypodium sylvaticum*. Several of these oak woodlands were originally plantations, grown for charcoal production.



Old Mill at Spinningdale, with the Dornoch Firth in the background. Sylvia Duckworth.



Dornoch Firth is home to wintering populations of 12,000 widgeon, 8,000 velvet scoter and 7,000 long-tailed duck, with important numbers of waders along with Common Scoter, Whooper Swan and

Red-breasted Merganser. The Widgeon rely on extensive beds of eelgrass *Zostera marina* and *Zostera noltei*. Sylvia Duckworth.



The present Skibo Castle was built by Andrew Carnegie, then the world's wealthiest man, at the start of the 20th century. It is now an exclusive members-only club, with its own golf course and shooting estate. Ronnie Leask. Plants to be found here include *Abies alba*, *Abies procera*, *Acer platanoides*, *Alchemilla glabra*, *Alchemilla mollis*, *Araucaria araucana*, *Artemisia vulgaris*, *Asplenium adiantum-nigrum*, *Buddleja davidii*, *Caltha palustris*, *Carex sylvatica*, *Cedrus deodara*, *Chrysosplenium oppositifolium*, *Cymbalaria muralis*, *Dryopteris affinis* subsp. *borreri*, *Equisetum fluviatile*, *Erophila verna*, *Fagus sylvatica*, *Fagus sylvatica* 'Purpurea', *Fallopia baldschuanica*, *Gunnera manicata*, *Luzula luzuloides*, *Lysimachia nummularia*, *Milium effusum*, *Moehringia trinervia*, *Myosotis discolor*, *Myosotis sylvatica*, *Myrrhis odorata*, *Narcissus* 'Cheerfulness', 'Flower Record', *poeticus* 'Recurvus', 'Salome', 'Thalia', 'White Lion' along with many other cultivars, *Nymphaea alba*, *Ornithogalum angustifolium*, *Pentaglottis sempervirens*, *Persicaria bistorta*, *Petasites albus*, *Phalaris arundinacea* 'Picta', *Phragmites australis*, *Pilosella officinarum*, *Platanus x hispanica*, *Poa chaixii*, *Poa nemoralis*, *Populus x canescens*, *Prunus laurocerasus*, *Pseudosasa japonica*, *Quercus cerris*, *Quercus ilex*, *Quercus x rosacea*, *Ribes nigrum*, *Scrophularia nodosa*, *Sempervivum tectorum*, *Sequoiadendron giganteum*, *Silene dioica*, *Soleirolia soleirolii*, *Sorbaria kirilowii*, *Symphoricarpos albus*, *Symphytum tuberosum*, *Symphytum x uplandicum*, *Tanacetum vulgare*, *Thuja plicata*, *Tilia x europaea*, *Typha latifolia*, *Ulmus glabra*, *Veronica persica*, *Viburnum lantana* and *Vinca minor*.



The grounds of Ospisdale House have a wonderfully rich flora including rare aliens like *Euphorbia dulcis* and *Osmunda regalis*.



The shingle beach at Newton Point looking southeast towards the Dornoch Firth Bridge on the skyline. Peter Moore. The rich coastal grassland has *Achillea millefolium*, *Agrostis capillaris*, *Anthoxanthum odoratum*, *Arrhenatherum elatius*, *Aster tripolium*, *Atriplex glabriuscula*, *Atriplex prostrata*, *Betula pendula*, *Chamerion angustifolium*, *Cirsium vulgare*, *Cochlearia officinalis* subsp. *officinalis*, *Cynosurus cristatus*, *Cytisus scoparius*, *Dactylis glomerata*, *Digitalis purpurea*, *Elytrigia repens*, *Festuca rubra*, *Galanthus nivalis*, *Galium aparine*, *Galium verum*, *Heracleum sphondylium*, *Holcus lanatus*, *Lolium perenne*, *Pinus sylvestris*, *Plantago lanceolata*, *Plantago maritima*, *Poa pratensis*, *Polygonatum x hybridum*, *Polygonum aviculare*, *Puccinellia maritima*, *Rumex acetosa*, *Rumex crispus*, *Sambucus nigra*, *Silene uniflora*, *Sonchus arvensis*, *Sonchus asper*, *Spergularia marina*, *Stellaria graminea*, *Trifolium repens*, *Ulex europaeus*, *Urtica dioica*, *Veronica chamaedrys* and *Vicia sepium*.



Carnegie Golf Course near Meikle Ferry NH 73 87 is part of the Skibo Castle estate. Des Colhoun. *Teesdalia nudicaulis* grows between the storage shed and the fence.



There is a fine lichen-rich heath at Cuthill Links. The coastal strip has *Achillea millefolium*, *Agrostis capillaris*, *Agrostis stolonifera*, *Aira praecox*, *Anthoxanthum odoratum*, *Anthriscus sylvestris*, *Arrhenatherum elatius*, *Atriplex glabriuscula*, *Atriplex prostrata*, *Calluna vulgaris*, *Carex arenaria*, *Cerastium fontanum*, *Cerastium glomeratum*, *Ceratocarpus claviculata*, *Crepis capillaris*, *Cytisus scoparius*, *Dactylis glomerata*, *Deschampsia flexuosa*, *Digitalis purpurea*, *Dryopteris dilatata*, *Dryopteris filix-mas*, *Erica cinerea*, *Festuca rubra*, *Galium aparine*, *Galium saxatile*, *Galium verum*, *Holcus lanatus*, *Hypochaeris radicata*, *Leymus arenarius*, *Lotus corniculatus*, *Plantago lanceolata*, *Plantago major*, *Plantago maritima*, *Poa pratensis*, *Potentilla erecta*, *Rumex acetosella*, *Rumex crispus*, *Rumex obtusifolius*, *Sagina procumbens*, *Sambucus nigra*, *Senecio jacobaea*, *Senecio sylvaticus*, *Silene uniflora*, *Sonchus arvensis*, *Stellaria graminea*, *Stellaria media*, *Trifolium dubium*, *Trifolium repens*, *Tripleurospermum inodorum*, *Ulex europaeus* and *Viola riviniana*.



Looking west from the causeway that leads to the northern section of the Dornoch Firth Bridge (opened in 1991), with vc. 107 on the right and vc. 106 on the left. Sarah McGuire. Lichen-rich heath in the foreground is known as Cuthill Links. The most distinctive feature of these coastal heaths is the association of *Calluna vulgaris* and *Carex arenaria*, along with the presence of several abundant species of *Cladonia* and other lichens. Vascular plant diversity is typically low, with *Festuca ovina*, *Luzula campestris*, *Aira praecox* and *Agrostis capillaris* amongst the only frequent monocots, and a scattering of herbs like *Hypochaeris radicata*, *Galium saxatile*, *Campanula rotundifolia* and *Senecio jacobaea*. One of the rarities found in this community is *Teesdalia nudicaulis*. Along with the heather, you will usually find *Erica cinerea* and sometimes *Empetrum nigrum*. Amongst the lichens, there are *Hypogymnia physodes*, *Cornicularia aculeata*, *C. muricata*, *Usnea articulata*, *U. subfloridana*, *Peltigera* spp., while along with abundant *Cladonia impexa*, *C. furcata*, *C. pyxidata*, *C. gracilis*, *C. foliacea* and *C. uncialis*, we might also find *C. rangiferina*, *C. rangiformis*, *C. subcervicornis*, *C. bacillaris*, *C. crispata*, *C. arbuscula* and *C. coccifera*. The commonest bryophytes are *Hypnum cupressiforme*, *Polytrichum piliferum*, *P. juniperinum*, *Dicranum scoparium*, *Campylopus introflexus*, *Hylocomium splendens* and *Pohlia nutans*.



Looking south along the dunes towards Dornoch Point, with vc. 106 on the skyline (Derek Brown). The dunes grade into salt marsh towards the right middle-distance, with *Achillea millefolium*, *Achillea ptarmica*, *Ammophila arenaria*, *Angelica sylvestris*, *Anthoxanthum odoratum*, *Anthriscus sylvestris*, *Anthyllis vulneraria* subsp. *carpatica*, *Armeria maritima*, *Arrhenatherum elatius*, *Aster tripolium*, *Astragalus danicus*, *Atriplex glabriuscula*, *Atriplex glabriuscula*, *Atriplex littoralis*, *Briza media*, *Cakile maritima*, *Campanula rotundifolia*, *Carex arenaria*, *Carex flacca*, *Centaurea nigra*, *Centaurea nigra*, *Centaureum littorale*, *Cerastium fontanum*, *Cerastium glomeratum*, *Chamerion angustifolium*, *Cirsium arvense*, *Cirsium vulgare*, *Cochlearia officinalis* subsp. *officinalis*, *Crepis capillaris*, *Cynosurus cristatus*, *Dactylis glomerata*, *Dactylorhiza purpurella*, *Deschampsia cespitosa* subsp. *cespitosa*, *Descurainia sophia*, *Draba incana*, *Elytrigia juncea*, *Elytrigia repens*, *Empetrum nigrum* subsp. *nigrum*, *Festuca rubra*, *Filipendula ulmaria*, *Galium verum*, *Gentianella campestris*, *Glaux maritima*, *Helictotrichon pubescens*, *Heracleum sphondylium*, *Holcus lanatus*, *Hypochaeris radicata*, *Juncus balticus*, *Juncus gerardii*, *Koeleria macrantha*, *Lathyrus pratensis*, *Leucanthemum vulgare*, *Leymus arenarius*, *Linum catharticum*, *Listera ovata*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Lychnis flos-cuculi*, *Myosotis arvensis*, *Odontites vernus* subsp. *litoralis*, *Parnassia palustris*, *Pilosella officinarum*, *Pinus sylvestris*, *Plantago lanceolata*, *Plantago maritima*, *Poa pratensis*, *Polypodium vulgare*, *Polypogon viridis*, *Puccinellia distans*, *Puccinellia maritima*, *Ranunculus acris*, *Rhinanthus minor*, *Rumex acetosa*, *Sagina nodosa*, *Salicornia europaea*, *Selaginella selaginoides*, *Senecio jacobaea*, *Senecio vulgaris*, *Spergularia marina*, *Spergularia media*, *Spergularia rubra*, *Thalictrum minus*, *Torilis japonica*, *Trifolium pratense*, *Trifolium repens*, *Triglochin maritimum*, *Valeriana officinalis*, *Veronica chamaedrys*, *Vicia sativa* subsp. *nigra* and *Viola riviniana*. The two Scots pine trees have been here for many years, and appear not to be invading. Two of the trees died during the harsh winter of 2010-11.



Looking south across salt marsh on the southern edge of Dornoch Common Good Lands. Small islands of *Leymus arenarius* are surrounded by more typical salt marsh vegetation with plenty of *Juncus balticus* and *Atriplex littoralis*.

The vice county boundary

Because it is defined largely by watersheds, the vice county boundary is rather complicated in places. Starting on the coast of the Moray Firth at Ord of Caithness, north of Helmsdale, the boundary is with Caithness (vc. 109) and follows the watershed westward above the Strath of Kildonan, through what is certainly the dullest vegetation in the county.



Boggy moorland on the Caithness and Sutherland county boundary, looking north towards Cnoc an Tubhadair along the boundary fence. Paul Simonite.



Cnoc na Saobhaidhe (368 m) looking over the summit plateau to the hills and bogs beyond. Paul Simonite.



The Child's Seat, Suidh' an Fhir-bhig (470 m), is a prominent local landmark (NC 963 252).
Colin Kinnear.

The northern interior section of East Sutherland, bordering on Caithness and West Sutherland, forms part of the extensive complex of sodden mires known as The Flow Country. This waterlogged peatland stretches over 4000 km² across vice counties 107, 108 and 109. The region is celebrated for its unusually high breeding densities of uncommon birds like Red-throated Diver, Greenshank, Golden Plover, Golden Eagle, Teal, Dunlin, Wood Sandpiper and Merlin. The vast plain of peatland and remote lochans, is broken only by the widely spaced peaks of the Ben Griams (Ben Griam Mor (590 m) and Ben Griam Beg (580 m), see above), Ben Armine (705 m) and, just over the border in West Sutherland (vc. 108) the great meatloaf of Ben Klibreck (962 m).



The dullness of the wet heath is relieved (if that is the right word) by extensive conifer plantations in the Flow Country. David Glass. Many of the forest blocks are being felled in an attempt to restore the wet heath. Much of the *Pinus contorta* failed to prosper and succumbed to pests or to wind-throw.

The boundary passes north-westwards across Cnoc an Eireannaich (517 m) to the Knockfin Heights (438 m) with their myriad lochans set in peat hags.



Bleak cotton grass bog leads east to the soggy summit plateau of Knockfin Heights on the border of Sutherland and Caithness. The vice county boundary runs right to left along the plateau, hidden behind the skyline ridge, amongst myriad peaty lochans.

From this point onwards, the boundary is with West Sutherland (vc. 108). It crosses the road and the railway south of Forsinard, before turning westwards around the northern flank of Ben Griam Beg (580 m).



The Ben Griams from the Sutherland/Caithness boundary. Ben Griam Mor (590 m) on the left and Ben Griam Beg (580 m) on the right, across the soggy cotton grass wastes of the Flow Country. The sign reads "Failte Duthaich Mhic Aoidh: Mackay Country". The vice county boundary leads off to the right of the picture, behind the top of the welcome sign, before curling back south, to skirt the northern (right hand) flank of Ben Griam Beg, in the centre of the skyline.



Achentoul Forest (Sharon Leedell). View south into vc. 107 from the road crossing south of Forsinard, looking across Loch Lucy towards Loch an Ruathair with Creag Sail a Bhathaich (349 m) on the right .



Looking south over the lonely croft of Greemachary in Achentoul Forest, with Loch an Ruathair in the centre, and the characteristic shape of Morven (705 m) on the skyline in the distance, as seen from the slopes of Ben Griam Beg.



Loch an Ruathair. The peaks of Ben Griam Mor (590 m on the left) and Ben Griam Beg (580 m on the right) in the distance, with the Kinbrace to Forsinard railway in the foreground, and the rounded hump of Achentoul Forest (406 m) in central middle distance. The vice county boundary runs right to left, hidden behind the skyline; the whole of this picture is in vc. 107. Ben Griam Mor has a rich montane flora, with species like *Alchemilla alpina*, *A. filicaulis*, *A. xanthochlora*, *Arctostaphylos alpinus*, *Arctostaphylos uva-ursi*, *Botrychium lunaria*, *Carex bigelowii*, *C. capillaris*, *Coeloglossum viride*, *Diphasiastrum alpinum*, *Draba incana*, *Dryas octopetala*, *Dryopteris expansa*, *Equisetum hyemale*, *Galium boreale*, *Gentianella campestris*, *Polystichum lonchitis*, *Salix myrsinites* and *Thalictrum alpinum* with *Trollius europaeus* on dripping ledges of base-rich rock. Ben Griam Beg has fewer interesting species.



Looking SW across the peat bog in NC 87 42 towards Ben Griam Beg (580 m). Steve Neal.
Menyanthes trifoliata grows in the shallow lochans with *Carex rostrata*.



Ben Griam Beg (580 m). Richard Webb. The trig-point has shattered and is now part of the summit cairn. Morven and Loch an Ruathair in the distance to the east (left of picture). The flora of this hill is notably less species rich than that of Ben Griam Mor, although the summit ridges have excellent populations of *Arctostaphylos alpinus*.



Looking back at Loch Gainimh NC 79 43 on the boundary south of Loch Crocach. Darren Dick.



Ben Griam Mor (590 m). The west-facing flank, showing the mountain's botanical hotspot, clearly outlined as a bright green strip running below the base-rich crags just below the centre skyline. The crags to the left and right are acidic, and much less interesting botanically. The wet north-facing cliffs of base rich rocks near the summit have *Alchemilla filicaulis*, *Asplenium viride*, *Arabidopsis petraea*, *Cerastium alpinum*, *Coeloglossum viride*, *Draba incana*, *Dryas octopetala*, *Empetrum nigrum* subsp. *hermaphroditum*, *Epilobium anagallidifolium*, *Galium boreale*, *G. sternerii*, *Kalmia procumbens*, *Luzula spicata*, *Polystichum lonchitis*, *Potentilla crantzii*, *Salix myrsinites*, *Saussurea alpina*, *Saxifraga oppositifolia*, *S. aizoides*, *Sedum rosea*, *Silene acaulis*, *Trollius europaeus*, *Thalictrum alpinum* and *Thymus polytrichus* subsp. *britannicus*. Very few of these species are found on neighbouring Ben Griam Beg.



The Garvault Hotel, the most remote hotel in Britain, seen from the slopes of Beod Eag. This is a favourite of fly-fishermen who return year after year to fish the nearby lochs.



Extensive tracts of wet heath in Badanloch Forest, with Beinn a' Mhadaidh (403 m) on the skyline, the crags of Biod Eag to the right (in cloud shadow), and the Garvault Hotel in the middle distance.



Ben Griam Mor across Loch Coire nam Mang, as the mountain was reddened by the setting sun. Darren Dick. This is one of the favourite fishing lochs for guests staying at Garvault Hotel.



Looking down the steep north east slopes of Ben Griam Mor with Ben Griam Beg in the background.
Colin Kinnear.



The species-rich crags on Ben Griam More. Note the bright green base-flushed vegetation at the base of the cliff, and the lush cliff-ledge vegetation.



Cliff ledges on Ben Griam Mor have *Trollius europaeus*, *Dryas octopetala* and *Alchemilla alpina* along with many other fine species like *Sausurea alpina* and *Thalictrum alpinum*. There are Frog Ochids *Coeloglossum viride* in the grass at the foot of the crags.

On Ben Griam Mor [NC 806 389] and Ben Griam Beg [NC 831 411] the higher, better drained ground has *Agrostis canina*, *Agrostis capillaris*, *Agrostis vinealis*, *Alchemilla alpina*, *Alchemilla filicaulis*, *Anthoxanthum odoratum*, *Arctostaphylos alpinus*, *Arctostaphylos uva-ursi*, *Blechnum spicant*, *Calluna vulgaris*, *Campyllum stellatum* var. *protensum*, *Campylopus paradoxus*, *Carex bigelowii*, *Carex panicea*, *Carex pilulifera*, *Carex pulicaris*, *Cetraria islandica*, *Cladonia arbuscula*, *Cladonia impexa*, *Cladonia uncialis*, *Coeloglossum viride*, *Cornicularia aculeata*, *Ctenidium molluscum*, *Dactylorhiza maculata maculata*, *Danthonia decumbens*, *Deschampsia flexuosa*, *Diphasiastrum alpinum*, *Ditrichum flexicaule*, *Empetrum nigrum* subsp. *nigrum*, *Erica cinerea*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Festuca ovina*, *Festuca rubra*, *Festuca vivipara*, *Fissidens osmundoides*, *Galium boreale*, *Galium saxatile*, *Huperzia selago*, *Hylocomium splendens*, *Hypnum cupressiforme*, *Hypnum jutlandicum*, *Juncus squarrosus*, *Lophocolea bidentata*, *Luzula multiflora*, *Molinia caerulea*, *Nardus stricta*, *Oxalis acetosella*, *Plagiochila porelloides*, *Plantago lanceolata*, *Pleurozium schreberi*, *Polygala serpyllifolia*, *Potentilla erecta*, *Pseudoscleropodium purum*, *Racomitrium lanuginosum*, *Rhytidiadelphus loreus*, *Rhytidiadelphus triquetrus*, *Rubus chamaemorus*, *Scirpus cespitosus*, *Selaginella selaginoides*, *Sphagnum capillifolium*, *Thalictrum alpinum*, *Thuidium tamariscinum*, *Thymus polytrichus* subsp. *britannicus*, *Tortella tortuosa*, *Trollius europaeus*, *Vaccinium myrtillus*, *Vaccinium vitis-idaea*, *Viola riviniana*, while the surrounding, boggy ground has *Barbilophozia floerkei*, *Calluna vulgaris*, *Calypogeia muelleriana*, *Dicranum scoparium*, *Erica tetralix*, *Eriophorum vaginatum*, *Hylocomium splendens*, *Hypnum jutlandicum*, *Listera cordata*, *Molinia caerulea*, *Myrica gale*, *Narthecium ossifragum*, *Plagiothecium undulatum*, *Pleurozium*

schreberi, *Potentilla erecta*, *Rhytidiadelphus loreus*, *Rhytidiadelphus squarrosus* and *Sphagnum capillifolium*.



Palm Loch in vc. 107 above Strath Naver. View across moorland towards Beinn Griam Mòr. Richard Webb. The surrounding wet heath is species-poor with *Calluna vulgaris*, *Carex viridula* subsp. *oedocarpa*, *Drosera anglica*, *D. rotundifolia*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Nardus stricta*, *Narthecium ossifragum*, *Pedicularis sylvatica*, *Plantago major*, *Plantago maritima*, *Polygala serpyllifolia*, *Sagina procumbens* and *Trichophorum germanicum*.

From here, the boundary runs south at Creag nan Laogh (228 m) to Ben Rosail (260 m) on the high ground looking down onto Syre in Strath Naver (both of which are in vc. 108).



Summit cairn of Beinn Rosail (260 m) looking west into vc. 108 across Strath Naver NC 70 40.

Peter Moore. On the vc. 107 side of the watershed you will find *Anthoxanthum odoratum*, *Calluna vulgaris*, *Carex binervis*, *Carex echinata*, *Carex panicea*, *Dactylorhiza maculata*, *Deschampsia flexuosa*, *Drosera anglica*, *Drosera rotundifolia*, *Empetrum nigrum* subsp. *nigrum*, *Erica cinerea*, *Erica tetralix*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Festuca vivipara*, *Galium saxatile*, *Juncus squarrosus*, *Melampyrum pratense* subsp. *pratense*, *Molinia caerulea*, *Myrica gale*, *Narthecium ossifragum*, *Pinguicula vulgaris*, *Polygala serpyllifolia*, *Potamogeton polygonifolius*, *Potentilla erecta*, *Trichophorum germanicum*, *Triglochin palustre* and *Vaccinium myrtillus*. This is one of the few places in East Sutherland where one can reasonably expect to see *Pseudorchis albida* in the wet heath. Craggs on Beinn Rosail are acid and botanically depauperate: *Anthoxanthum odoratum*, *Blechnum spicant*, *Carex binervis*, *Carex laevigata*, *Dactylorhiza maculata*, *Deschampsia flexuosa*, *Digitalis purpurea*, *Dryopteris dilatata*, *Empetrum nigrum* subsp. *nigrum*, *Erica cinerea*, *Festuca filiformis*, *Huperzia selago*, *Hypericum pulchrum*, *Lotus corniculatus*, *Luzula sylvatica*, *Oreopteris limbosperma*, *Oxalis acetosella*, *Phegopteris connectilis*, *Pinguicula vulgaris*, *Polypodium vulgare*, *Populus tremula*, *Primula vulgaris*, *Pteridium aquilinum*, *Ranunculus acris*, *Sorbus aucuparia*, *Succisa pratensis*, *Vaccinium myrtillus*, *Vaccinium vitis-idaea* and *Viola riviniana*.

The border then snakes southwards through the appallingly dull conifer plantations of sickly and dying *Pinus contorta* to cross the Loch Chiore Road at Halmadarie. One consolation is the view of Ben Loyall on the skyline



Ben Loyal across the cotton grass bogs on the vc. 107 boundary. The bright green inbye grasslands at Halmadarie are visible on the centre-right margin of the picture. Its characteristic saddle-shaped summit is a feature of most of the views in this part of the vice county.



Truderscaig clearance township looking south to Ben Armine NC 70 34. Peter Aikman. This is essentially a *Molinia* bog, studded with archaeology and grazed by North Country Cheviot sheep: *Agrostis capillaris*, *Angelica sylvestris*, *Anthoxanthum odoratum*, *Bellis perennis*, *Betula pubescens*, *Calluna vulgaris*, *Cardamine pratensis*, *Carex flacca*, *Carex nigra*, *Carex viridula* subsp. *oedocarpa*, *Cerastium fontanum*, *Chamaecyparis lawsoniana* 'Stewartii' (in the small conifer block, top right of picture), *Cirsium palustre*, *Corylus avellana*, *Deschampsia cespitosa* subsp. *cespitosa*, *Equisetum fluviatile*, *Erica tetralix*, *Eriophorum angustifolium*, *Galium palustre*, *Galium saxatile*, *Holcus lanatus*, *Juncus effusus*, *Juncus squarrosus*, *Lotus corniculatus*, *Luzula multiflora* subsp. *congesta*, *Lychnis flos-cuculi*, *Molinia caerulea*, *Myosotis secunda*, *Nardus stricta*, *Pinguicula vulgaris*, *Pinus contorta*, *Potamogeton polygonifolius*, *Potentilla erecta*, *Ranunculus flammula*, *Ranunculus repens*, *Rumex acetosa*, *Rumex obtusifolius*, *Schoenus nigricans*, *Stellaria uliginosa*, *Succisa pratensis*, *Trifolium repens*, *Triglochin palustre* and *Viola palustris*.



Enclosures and in-bye land at Halmadarie NC 69 31, seen looking north from the path to Ben Armine. Richard Webb. Loch Truderscaig is in the right middle distance, with the township clearings in the forest clearly visible. The vice county boundary runs approximately from top to bottom of the left hand side of the view. The inbye land often has huge herds of grazing red deer.



Pony track, running beneath the eastern scarp of Ben Armine NC 69 29. Richard Webb. This is a species-poor wet heath with *Anthoxanthum odoratum*, *Blechnum spicant*, *Calluna vulgaris*, *Dactylorhiza maculata*, *Drosera rotundifolia*, *Erica cinerea*, *Erica tetralix*, *Eriophorum angustifolium*, *Galium saxatile*, *Huperzia selago*, *Juncus squarrosus*, *Molinia caerulea*, *Myrica gale*, *Narthecium ossifragum*, *Oreopteris limbosperma*, *Pinguicula vulgaris*, *Polygala serpyllifolia*, *Potentilla erecta*, *Succisa pratensis*, *Trichophorum germanicum* and *Vaccinium myrtillus*.



Species-rich crags of Coire ne Saidhe Duibhe on Ben Armine support *Salix lapponum*, *Luzula spicata*, *Arctostaphylos alpinus*, *Saxifraga oppositifolia*, *Oxyria digyna*, *Thalictrum alpinum*, *Sedum rosea*, *Saxifraga stellaris*, *Epilobium anagallidifolium* and *Equisetum sylvaticum*. The bleak and desolate blanket bog (top left) in Strath Skinsdale is low on botanical interest.



Monadh Stairneach NC 66 26 in the Ben Armine Forest, viewed from one of Ben Armine's high tops, Creag a' Choire Ghlais, 3 km to the east. Richard Webb.



The main path alongside the Abhainn Srath na Seilge. NC 65 23. Richard Webb. The vice county border is 1km west (on the right of this south-facing photograph).



The boundary through NC 59 23 is just north of this peaty lochan - the source of the River Brora. Ben Klibreck (vc . 108) is in the distance. Nick Lindsay.

Six km north of the head of Loch Brora, at the head of the Allt a Mhuilinn burn below Cnoc Meadhonach (345 m), lie the bogs around Loch Coir' an Eoin [NC 828 164]. Here you will find *Vaccinium microcarpum* and *Betula nana*, along with rare bog mosses like *Sphagnum austinii*. Just north of our area, at Altnaharra, is a quaking bog (a raft of floating vegetation) by R. Mudale [NC 559 361] with *Phragmites australis*, *Potentilla palustris*, *Carex rostrata* and *Equisetum fluviatile*. It is near here that the Red Data Book String Sedge, *Carex chordorrhiza*, grows in one of only two British locations. If you are in Altnaharra, you should also visit the superb wetland where the R. Mudale flows into Loch Naver to the east of the hamlet [NC 575 352].



The view from the boundary to Loch Gaineamhach (vc. 108) from the SE slope of Creag Sgoilteach (vc. 107). Nick Lindsay.

After this, the border runs along the ridge to the south of Loch Choire overlooking Ben Klibreck (961 m; both of which are in vc.108) then descends to Bealach Easach (340 m).



View from the boundary at Bealach Easach NC 57 25 looking north east to Loch a' Bhealaich and Loch Choire (both vc. 108), with the lower slopes of Ben Klibreck on the left Andy Coyne.



Boggy ground on the col above Bealach Easach, showing the hill rising towards Carn an Fheidh NC 57 27, a subsidiary summit of Ben Klibreck on the boundary of vc. 107. Jim Barton.



View northwards from the boundary cairn in NC 56 27 to Loch nan Uan and Ben Klibreck with Loch Naver in the distance (all but the foreground is in vc. 108). Stuart Meek.



Barren moorland on the southwest flank of Cnoc Sgriodain (NC 54 26) with Crask Inn in the distance, 3km away to the west Nick Lindsay.



The lonely hamlet at Crask Inn. At this point, the road from Lairg to Altnaharra separates one large area of bleak bogland from another large area of bleak bogland.



Looking north to Crask Inn on the A836 bridge over R. Tirry. Donald Bain. Around Loch Gaineamhach to the north-west of The Crask is a classic matrix of wet heath and cotton grass bog, with *Blechnum spicant*, *Calluna vulgaris*, *Carex nigra*, *Carex rostrata*, *Carex viridula* subsp. *oedocarpa*, *Drosera anglica*, *Drosera rotundifolia*, *Empetrum nigrum* subsp. *nigrum*, *Erica cinerea*, *Erica tetralix*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Huperzia selago*, *Juncus effusus*, *Juncus squarrosus*, *Lobelia dortmanna*, *Molinia caerulea*, *Nardus stricta*, *Narthecium ossifragum*, *Pedicularis sylvatica*, *Pinguicula vulgaris*, *Polygala serpyllifolia*, *Potamogeton polygonifolius*, *Potentilla erecta*, *Succisa pratensis*, *Trichophorum germanicum* and *Viola palustris*. If you are fortunate you may find *Betula nana* and *Carex limosa*.



Looking west from the A836 near Crask Inn from the road bridge across R. Tirry. The boundary is 1km north of here Donald Bain.

The boundary then crosses the vast and bleak sphagnum mires along a flat and ill-defined watershed west of The Crask (290 m) that separates the north-flowing waters of the R. Naver and the southeast-flowing waters of R. Helmsdale.



Looking west from The Crask Inn with snowy Ben Hee in the distance (Sylvia Duckworth). The *Dactylis glomerata* in the foreground is on the roadside, not in the bog. One of the best and easiest ways to experience this watery wilderness is to park by the road from Lairg to Altnaharra then walk west from The Crask to the extraordinary bogs and pools surrounding Cnoc an Alaskie (312 m). The blanket mires are of the *Eriophorum-Trichophorum-Molinia* type grading into *Calluna-Trichophorum* on drier ground with patches of *Betula nana* amongst the heather, with linear bog pools containing *Menyanthes trifoliata*, *Carex limosa* and *Rhynchospora alba*. Characteristic “ladder fens” occur at a range of altitudes with rarities including *Lycopodiella inundata*, *Sphagnum austinii*, *Sphagnum majus* and *Sphagnum pulchrum*. A typical expanse of mire will support *Anthoxanthum odoratum*, *Aulacomnium palustre*, *Betula pubescens*, *Calliergon giganteum*, *Calluna vulgaris*, *Calypogeia muelleriana*, *Carex binervis*, *C. nigra*, *C. panicea*, *C. pilulifera*, *C. rostrata*, *Cerastium fontanum*, *Cetraria islandica*, *Cladonia impexa*, *Cladonia uncialis*, *Cornicularia aculeata*, *Dactylorhiza maculata*, *Danthonia decumbens*, *Dicranum scoparium*, *Drosera anglica*, *Drosera rotundifolia*, *Empetrum nigrum* subsp. *nigrum*, *Erica cinerea*, *Erica tetralix*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Hippuris vulgaris*, *Hypnum jutlandicum*, *Juncus effusus*, *Lophocolea bidentata*, *Luzula multiflora*, *Molinia caerulea*, *Mylia taylorii*, *Myrica gale*, *Narthecium ossifragum*, *Odontoschisma sphagni*, *Pedicularis sylvatica*, *Pinguicula vulgaris*, *Plagiothecium undulatum*, *Pleurozia purpurea*, *Polygala serpyllifolia*, *Polytrichum commune*, *Potentilla erecta*, *Racomitrium lanuginosum*, *Rhizomnium punctatum*, *Rhytidiadelphus squarrosus*, *Salix repens*, *Scirpus cespitosus*, *Sphagnum capillifolium*, *Sphagnum compactum*, *Sphagnum palustre*, *Sphagnum recurvum*, *Sphagnum subnitens*, *Trientalis europaea* and *Vaccinium vitis-idaea*.

From this point, the boundary forms a northern bulge from Leathad Creagach (317 m), north along the ridge to the east of Loch Fiaig,



Looking west from the boundary across the R. Fiag NC 46 27. Andy MacArthur.

before turning west to take in the summit of Ben Hee (873 m). On the higher reaches of Ben Hee you will find all of the commoner upland plants including *Alchemilla alpina*, *Antennaria dioica*, *Arctostaphylos uva-ursi*, *Cystopteris fragilis*, *Diphasiastrum alpinum*, *Empetrum hermaphroditum*, *Epilobium anagallidifolium*, *Geum rivale*, *Juniperus communis*, *Listera cordata*, *Lycopodium annotinum*, *Kalmia procumbens*, *Melampyrum pratense*, *Oxyria digyna*, *Persicaria vivipara*, *Salix herbacea*, *Saxifraga aizoides*, *S. stellaris*, *Sedum rosea*, *Solidago virgaurea*, *Thalictrum alpinum* and *Trollius europaeus* plus a scattering of rarities like *Arctostaphylos alpinus*, *Asplenium viride*, *Gnaphalium supinum*, *Juncus trifidus*, *Minuartia sedoides*, *Sibbaldia procumbens* and *Vaccinium uliginosum*.



Looking from the boundary at Creag Dhubh Mhòr NC 45 33 westwards towards Ben Hee (in vc. 107) (Richard Webb). On Ben Hee [NC 426 338] the higher, better drained ground has *Agrostis vinealis*, *A. capillaris*, *Alchemilla alpina*, *Anastrepta orcadensis*, *Armeria maritima*, *Barbilophozia hatcheri*, *Carex bigelowii*, *Cetraria islandica*, *Cladonia arbuscula*, *Cladonia bellidiflora*, *Cladonia pyxidata*, *Cladonia uncialis*, *Coriscium viride*, *Cornicularia aculeata*, *Deschampsia cespitosa*, *Deschampsia flexuosa*, *Dicranum scoparium*, *Diplophyllum albicans*, *Drepanocladus uncinatus*, *Festuca ovina*, *Festuca vivipara*, *Huperzia selago*, *Hylocomium splendens*, *Hypnum cupressiforme*, *Lophozia sudetica*, *Luzula spicata*, *Minuartia sedoides*, *Mnium hornum*, *Peltigera canina*, *Plagiothecium undulatum*, *Pleurozium schreberi*, *Polytrichum alpinum*, *Ptilidium ciliare*, *Racomitrium lanuginosum*, *Rhytidiadelphus loreus*, *Rhytidiadelphus squarrosus*, *Salix herbacea*, *Selaginella selaginoides*, *Silene acaulis*, *Thuidium delicatulum*, *Thymus polytrichus* subsp. *britannicus*, *Vaccinium myrtillus*, *Vaccinium vitis-idaea* and *Viola palustris*, while the mountain flushes support *Agrostis canina*, *Calliergon sarmentosum*, *Caltha palustris*, *Carex echinata*, *Chiloscyphus polyanthos*, *Chrysosplenium oppositifolium*, *Deschampsia cespitosa* subsp. *cespitosa*, *Drepanocladus exannulatus*, *Juncus bulbosus*, *Jungermannia atrovirens*, *Montia fontana*, *Pellia epiphylla*, *Philonotis fontana*, *Saxifraga stellaris*, *Scapania undulata* and *Sphagnum auriculatum* var. *auriculatum*.



Crag on the north side of Creag Dhubh Mhòr, with a view down Strath Mudale towards the two Ben Griams in the far distance. Richard Webb.

Turning north again, still on the high ground,



Peat hags at north end of Loch a' Choire Leacaich, with the crags of Ben Hee on the right NC 44 34
Nick Lindsay.



Looking west from the boundary towards the eastern flank of Ben Hee into vc. 107 at the bealach between Bad a' Bhacaidh and Creag Dubh Mor (Nick Lindsay). The boundary turns sharply westward just north of this point and gains the skyline, then skirts the high ground above Loch an t-Seilg



Coire na Sigh Duibhe with a path leading up out of the corrie towards Ben Hee NC 45 35. Richard Webb.

to Beinn Direach (688 m), and then to Carn an Tionail (759 m).



The boundary runs along the skyline (851 m) on the north-western summit of Ben Hee NC 44 35 above Loch Coire na Saidhe Duibhe Richard Webb.



The view eastwards to Ben Klibreck (961 m) from Meall Car nan Ruadhag (364 m) just north of the vc 107 boundary, from a knoll north east of Loch Coire na Saidhe . Richard Webb.



View north-eastwards from the vc 107 boundary in NC 40 34 to Loch an t-Seilg with Loch an Aslaird just beyond and Ben Loyal in the distance (all but the foreground is in vc. 108). Jim Barton.



The boundary runs along the skyline of Sail Gharbh (on Ben Hee) above Loch an Tuim Bhuidhe (in vc. 108). Dorothy Carse.



Looking east from NC 400 354, where the boundary crosses the track at the watershed of Bealach nam Meirleach (250 m) just west of Loch an Tuim Bhuidhe (in the mid distance) with the western flank of Ben Hee on the skyline to the right. This track goes from West Merkland (by the Loch Shin road in vc. 107) to Governuisgach Lodge in Glen Golly (vc. 108). You may like to know that this remarkable place is pronounced “Gober-noosh-ka” wit the emphasis on the middle sylable. Dorothy Carse.



Allt na Glaise NC 39 35 in vc. 107 looking towards Meall a' Chleirich (631 m). The boundary runs along the skyline. Dorothy Carse.



Final slopes of Beinn Direach (688 m) leading to the summit NC 40 37 Colin Kinnear.



The boundary passes the summit cairn of Beinn Direach (688 m) with Ben Hope (927 m) in the distance in vc. 108. The boundary then heads steeply downhill north-westwards to Bealach nan Rath (540 m) then uphill again to Carn an Tionail (759 m). Colin Kinnear.



On A' Ghlaise (750 m, in vc. 107) looking north to Carn an Tionail (759 m). Chris Wimbush. The boundary runs right to left along the ridge in the middle distance. Flatter, boggy ridges, like that of A' Ghlaise [NC 392 363] are more bryophyte-dominated, with *Aulacomnium palustre*, *Barbilophozia floerkei*, *Calluna vulgaris*, *Carex bigelowii*, *Cladonia arbuscula*, *Cladonia uncialis*, *Dicranum scoparium*, *Empetrum nigrum* subsp. *nigrum*, *Eriophorum vaginatum*, *Hylocomium splendens*, *Hypnum cupressiforme*, *Juncus squarrosus*, *Lophozia sudetica*, *Pleurozium schreberi*, *Potentilla erecta*, *Ptilidium ciliare*, *Racomitrium lanuginosum*, *Rhytidiadelphus loreus*, *Rubus chamaemorus*, *Scapania gracilis*, *Solidago virgaurea*, *Sphagnum capillifolium*, *Sphagnum fuscum*, *Tritomaria quinqueidentata*, *Vaccinium myrtillus* and *Vaccinium vitis-idaea*. Wet, west-facing cliffs have *Agrostis capillaris*, *Alchemilla alpina*, *Calluna vulgaris*, *Festuca vivipara*, *Hypericum pulchrum*, *Plantago lanceolata*, *Sedum rosea*, *Solidago virgaurea*, *Succisa pratensis*, *Thymus polytrichus*, *Primula vulgaris*, *Lysimachia nemorum*, *Salix lapponum*, *Silene acaulis*, *Saxifraga oppositifolia* and *Sedum rosea*.

From the summit of Carn an Tionail (759 m) the border forms a northward semicircle along the unnamed ridge (582 m) above the corrie of Lochan a' Bealaich, then up the steep ridge to Carn Dearg (797 m). The boundary then heads westwards but only half way along the ridge towards Meallan Liath Coire Mhic Dhughail (801 m) before turning south at NC 371 389 to follow the descending ridge along Meallan Liath Beag, with Loch Uibhach Coire below to the east (vc. 107) and Allt an Reinidh to the west (vc. 108).



The boundary runs along the stony ridge NC 357 391 towards the summit of Meallan Liath Coire Mhic Dhugail (801 m) before turning abruptly southwards (the smaller ridge, descending to the right, in the centre of the picture). Tony Kinghorn.



Allt Beithe and Creag na h-Uidhe seen from the summit of Cnoc a' Choilich. The left-hand skyline is the slope rising to Carn Dearg. Wet rocks on Carn Dearg (797 m) on the vice-county boundary above Coire Mhic Faide [NC 377 389] support *Alchemilla glabra*, *Breutelia chrysocoma*, *Calliergon cuspidatum*, *Carex bigelowii*, *Coeloglossum viride*, *Ctenidium molluscum*, *Drepanocladus uncinatus*, *Geum rivale*, *Leontodon autumnalis*, *Luzula sylvatica*, *Lysimachia nemorum*, *Oxalis acetosella*, *Polytrichum alpinum*, *Rhizomnium punctatum*, *Rhytidiadelphus loreus*, *Rhytidiadelphus squarrosus*, *Rhytidiadelphus triquetrus*, *Rumex acetosa*, *Selaginella selaginoides*, *Thalictrum alpinum*, *Thuidium tamariscinum*, *Thymus polytrichus* subsp. *britannicus*, *Valeriana officinalis* and *Veronica officinalis*. Jim Barton.



The steep north face of Càrn Dearg (797 m) NC 377 389 , seen from the Bealach na Fèithe path
Richard Webb.



Nardus grassland looking east along Carn Dearg summit ridge (797 m) NC 377 389. The crags (in the last picture) are to the left. Chris Wimbush.



High on the ridge approaching Carn Dearg from the west NC 36 38. Chris Wimbush.



The boundary runs south down the watershed along the crest of Meallan Liath Beag



Looking east from the boundary on the crest of Meallan Liath Beag across Loch Ulbhach Coire fringed by peat hags to Creag na h-Uidhe (720 m) beyond. Jim Barton.



The view back up the ridge, N to Carn Dearg with the vice county boundary on the skyline. Jim Barton.



Looking north back up the ridge to Meallan Liath Coire Mhic Dhugaill past the west-most lochan. In the distance, the cloud base has dropped to cover the summit of Arkle. Jim Barton



Looking south over the lochan on Meallan Liath Beag NC 367 367 This is one of two un-named lochans on this ridge. From this point, the boundary heads off downhill towards the southeast (to the top left of the picture). Jim Barton.

From Meallan Liath Beag the boundary now winds roughly southwards along the watershed to the knoll of Cnoc a Choilich (374 m) where you will find *Agrostis canina*, *Anastrepta orcadensis*, *Arctostaphylos alpinus*, *Calluna vulgaris*, *Carex binervis*, *Cetraria islandica*, *Cladonia arbuscula*, *Cladonia gracilis*, *Cladonia leucophaea*, *Cladonia uncialis*, *Cornicularia aculeata*, *Dicranum scoparium*, *Diplophyllum albicans*, *Empetrum nigrum* subsp. *hermaphroditum*, *Erica cinerea*, *Festuca ovina*, *Fruillania tamarisci*, *Huperzia selago*, *Hylocomium splendens*, *Hypnum cupressiforme*, *Nardus stricta*, *Polytrichum alpinum*, *Racomitrium lanuginosum*, *Rhytidiadelphus loreus*, *Scapania gracilis*, *Scirpus cespitosus* and *Sphaerophorus globosus*.



The boundary follows the ridge on the skyline past Loch Eas na Maoile (in vc. 108) to the summit of the hillock called Cnoc a' Choilich (374 m) Jim Barton.



Summit area of Cnoc a' Choilich is in vc 107. It is the highest of the hillocks on this flattish watershed, with the distinctive peak of Ben Stack (721m, vc. 108) in the distance to the northwest
Jim Barton.



Doire Dubh, west of Creag an Sgamhlainn. NC 364 332. The vice county boundary runs straight up this steep wooded slope between the two streams. The right hand stream drains north into Loch More (vc. 108) while the left hand stream drains south into Loch Merkland.

The boundary crosses the Laxford Bridge-to-Lairg road between Loch More (vc. 108) and Loch Merkland (vc. 107), close to the eastern edge of the woodland on the southern slope (just off to the right of the photo above). The dripping crags on Doire Dubh support *Oxyria digyna*, *Sedum rosea*, *Saxifraga aizoides*, *S. stellaris* and *Trollius europaeus*.



Looking east towards the watershed between vc 108 (foreground) and vc 107 (background), where the A838 crosses the east-west divide. Ben Hee (873 m) is on the skyline to the left with Meallan Liath Mor (683 m) on the right, while Cnoc a' Choilich (374 m) is the grassy shoulder on the left. Richard Webb.



Looking back north-eastwards from Doire Dubh which is the hill immediately west of the watershed (it is a northern spur of Meall an Fheur Loch) with Ben Hee in the background. Richard Webb.

The boundary then climbs in a zigzag to Meall an Fheur Loch (613 m), first west then south, with the mosaic of lochans in the corries far below to the east,



Spectacular views north-westwards from the flat summit of Meall an Fheur Loch (613 m) to Ben Stack (721m, left) and Arkle (787m) and Foinaven (911 m, right; all except the foreground in vc. 108). Andrew Spenceley.



The view from the summit of Meall an Fheur Loch is dominated by Meallan a' Chuail (750 m) with its twin lochans



The summit of Meall an Fheur Loch is grassy, dominated by *Nardus stricta*, in contrast to many of the other local summits which are heathery or cottongrass-dominated.



Further west is Beinn Leoid (792 m) but its floristically rich crags are on the wrong side of the border, in West Sutherland (vc. 108). The East Sutherland parts of the mountain are the gentle, heathy slopes on its southern flank (out of sight behind the ridge on the left-hand skyline), supporting *Cornus suecica*, *Rubus chamaemorus* and *Vaccinium uliginosum*.



The ill-defined watershed passes to the west (left side) of Loch Cul a'Mhill in this north-facing shot Andy MacArthur.



A boggy cotton-grass lochan beneath Meall an Fheur Loch looking south-westwards towards Beinn Leoid (792 m). Richard Webb.



The watershed is to the west of Loch Lol-ghaoith (on the skyline). Andy MacArthur climbing to Meallan a Chuail (750 m)



Looking over the flat plateau of *Nardus* grassland to Lochain Meallan a' Chuail and the steep east slope of the ridge leading to Meallan a' Chuail summit. Andrew Spenceley.

then west to Beinn Leoid (792 m).



Looking east along the east ridge of Beinn Leoid. The peak in the distance is Meallan a' Chuail (750 m). Gordon Brown.



Looking northwest across the Beinn Leoid summit trig-point (792 m). Gordon Brown. Ben Stack (721 m) in the centre, with Arkle (787 m) and Foinaven (911 m) in the distance on the right (all of them in vc. 108).



Looking south across flat ground by the Fionn Allt, with Ben More Assynt and Conival in the distance. The rarities on this, the highest ground in vc. 107, include *Alchemilla wichurae*, *Arctostaphylos alpinus*, *Arenaria norvegica*, *Athyrium distentifolium*, *Carex capillaris*, *Carex rupestris*, *Carex saxatilis*, *Cerastium arcticum*, *Draba norvegica*, *Dryas octopetala*, *Epipactis atrorubens*, *Equisetum variegatum*, *Euphrasia ostensfeldii*, *Euprasia frigida*, *Gentiana verna*, *Gymnocarpium robertianum*, *Luzula arcuata*, *Lycopodium annotinum*, *Minuartia sedoides*, *Poa alpina*, *Potentilla crantzii*, *Sagina saginoides*, *Salix myrsinites*, *Saxifraga nivalis*, *Sibbaldia procumbens* and *Sorbus rupicola*. The vice county boundary is 1 km to the west (right) of this spot. Andrew Spenceley.



Looking north from the watershed in NC 29 26 on the steep rocky and broken ground on the north side of Beinn Uidhe (741 m). Glen Coul can be seen in the distance. Andrew Spenceley.



The boundary runs across the southeast ridge of Beinn Uidhe, here looking south towards Ben More Assynt (with a fresh dusting of snow). Phil Johnstone.

From here the boundary drops down to the ridge above Gorm Loch More (the headwaters of Glen Cassley), then up again to the top of Mullach an Leathaid Riabhaich (720 m), and down again to Bealach a Mhadaidh (615 m) .



View southwards towards Ben More Assynt from Bealach a' Mhadaidh above Loch na Cuaran. The vice-county's only Munros (mountains of more than 3,000 ft (914.4 m) altitude) are the summits clustered around Ben More Assynt (998 m), comprising a horseshoe of high ridges that form the watersheds above the sources of the R. Oykel and R. Cassley [NC 309 199]. The ridge is of quartzite in the west (Creag Liath 814m and Conival 986m), with Lewisian Gneiss in the southeast (Meall an Aonaich 715m). The common mountain species are *Alchemilla alpina*, *Arctostaphylos alpinus*, *Armeria maritima*, *Carex bigelowii*, *Cerastium alpinum*, *Empetrum nigrum* subsp. *hermaphroditum*, *Luzula spicata*, *Persicaria vivipara*, *Trollius europaeus* and *Silene acaulis*. Local specialties include *Juncus trifidus*, *J. biglumis*, *J. castaneus*, *Draba norvegica*, *Poa alpina* and *Deschampsia alpina*. The cliffs of calcareous Lewisian Gneiss on the southwestern flanks have *Draba norvegica*, *D. incana*, *Saxifraga nivalis*, *Cerastium alpinum*, *Juncus castaneus*, *Deschampsia cespitosa* subsp. *alpina*, *Poa alpina*, *Polystichum lonchitis* and *Silene acaulis*. Richard Webb.

After this, there is a long slog up the ridge that climbs south to the quartzite top of Conival (987 m).



The northern ridge of Conival (the usual route up Ben More Assynt from Inchnadamph) with scale provided by the four walkers in the middle distance. Richard Webb. The quartzite regions are mostly species-poor, but *Athyrium distentifolium* grows amongst the blocky screes.



The northern quartzite slope of Ben More Assynt is mostly species poor. The better hunting grounds are to the east of this, in the high crags of Coire Reidh (off the left hand edge of the ridge). Richard Webb.



The fabulous geology of Coire a' Mhadaidh is outlined by a dusting of snow in this fine view looking northwards from Ben More Assynt, with Quinag (in vc. 108) on the horizon. Russel Wills.



Screens and boulder fields of quartzite on the approach to the summit of Na Tuadhan (860 m), one of the outlying tops of Ben More Assynt. Richard Webb.

The summit of Ben More Assynt (998 m) lies about 1.5km to the east of this point, but the going is slow across the rough quartzite boulders, despite the drop and re-ascent of only 113m.



The precipitous rocky ridge east of the summit of Ben More Assynt. The quartzite ridge leading to Conival and thence back to Inchnadamph is in the top left corner.



Bealach Traligill (NC 299 194) is a deep-cut bealach forming a true east-west watershed at the meeting of three vice counties. Westwards the water flows into the River Traligill and the Atlantic (vc. 108), while eastwards the water joins the River Oykel (vc. 107). The vice county 107 boundary runs south from the summit of Conival, then down-slope to meet the headwaters of the R. Oykel at Alt an Dubh Loch Mhoir (near NC 312 185). The rounded ridge forming the watershed between Strath Oykel and R. Loanan, known as Breabag, is in vc. 106 to the west. Stuart Meek.



Just west of this watershed, one of the greatest of all Scottish views opens up (Jim Barton). The magnificent Torridonian sandstone peaks of Suilven (pictured here), Stac Polly, Cul Mor, Canisp and the rest, are like isolated ships on a rolling sea of Lewisian Gneiss, stripped bare by the glaciers, and dotted with countless tiny lochans. But, of course, all of that is in vc. 108.



Dubh Loch More forms one of the headwaters of the R. Oykel. The summits of Conival and Ben More Assynt are to the left . This is a good base for camping to botanize the high ground at leisure. It is a gentle 7km walk north from Benmore Lodge along the eastern side of Glen Oykel.

From Conival onwards, the border is with Easter Ross (vc. 106). It abandons the watershed, and drops down steeply, almost due south from the summit, to join the headwaters of R. Oykel in the centre of the valley.



Looking south down Allt an Dubh Loch' Mhoir to the south of Conival. Chris Wimbush. To the left is vc. 107, to the right vc. 106.



Glen Oykel looking south-westwards from Ben More across from the path to Creag na h-Iolaire (Crag of the Eagle). Anne Burgess.



River Oykel, looking upriver in NC 32 14, the banks of pink shingle prominent after a prolonged dry spell of weather. Anne Burgess.

then follows the shingle spits in the main river down the valley of Glen Oykel with Breabag (815 m; vc. 106) to the west and Meall an Aonaich (714 m; vc. 107) to the east.



Looking north up R. Oykel after emerging from the forestry north of Benmore Lodge, with the valley of Allt Sail an Ruathair on the right. Chris Wimbush.



Benmore Lodge (centre) at the head of Loch Ailsh, with Sgonnan Mòr (638 m) to the left, and Black Rock (413 m) just right of centre. Anne Burgess.



The vice county boundary runs through the conifers along the western shore of Loch Ailsh with Conival (987 m) and Ben More Assynt (998 m) in the distance AlastairG.



Looking south from the outflow from Loch Ailsh down Glen Oykel. Chris Wimbush.



R. Oykel. The pink syenite rocks are the Loch Ailsh Pluton, which is intruded into the surrounding Lewisian gneiss. Anne Burgess.



vc. 107 is on the left (far) bank of the R. Oykel, as it flows through NC 34 03. Sylvia Duckworth.



R. Oykel runs through conifer plantations all the way from Loch Ailsh down to Craggie.
Sylvia Duckworth.



Deciduous woodland on the north (vc. 107) bank of the R Oykel opposite Ludcrov Lodge NC 36 01.
Donald Bain.



Falls just upstream of Oykel Bridge. John Ferguson. The vice county boundary is in the centre of the river, with vc. 107 on the right.

At Oykel Bridge, the Ledmore-to-Bonar Bridge road crosses from the vc. 106 side of the river to the vc. 107 side.



Oykel Bridge from the old road bridge, looking over to the new road bridge. From here downstream, the road is in vc. 107, above the left bank. Donald Bain.



R Oykel near Inveroykel (NC 46 01). Graeme Smith



R. Oykel downstream of Oykel Bridge. Donald Bain

The vice country boundary continues to run down the middle of the River Oykel all the way to the Kyle of Sutherland,



Kyle of Sutherland looking downstream at NH 49 99. Donald Bain.



Maikel in May (NH 60 93). Kevin Philpott

then to Bonar Bridge (the locals pronounce it “bone-a” with the emphasis on the first syllable, and they don’t mention the bridge).



Bonar Bridge from the vc. 107 side looking across the Kyle into vc. 106. Phil Williams.

and finally to the Dornoch Firth (see p. 111).

THE FLORA

A typical species account looks like this:

.....

Huperzia selago subsp. **selago** (L.) Bernh. ex Schrank and Mart. *Fir Clubmoss* chh 6
Lycopodium selago L.

Heaths, moors, bogs, crags and mountains. Widespread and locally frequent.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC52 NC60 NC61 NC62 NC63 NC70
 NC71 NC72 NC73 NC74 NC80 NC81 NC83 NC84 NC91 NC92 NC93 ND01 NH79

vc 107 watershed	NC690300	wet heath	20/06/2011
An Dubh-lon	NC695324	blanket bog	20/06/2011
An Chrom-allt	NC718310	roadstone quarry	20/06/2011

Lochan Dubh	NC725322	blanket bog	20/06/2011
W summit Ben Gram Mor	NC800390	gravel	21/06/2011
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Ben Griam Mor summit	NC803389	dry heath	21/06/2011
Ben Griam Mor NW-facing	NC797395	crag	21/06/2011
Ben Griam Mor NW-facing	NC793398	ridge	21/06/2011
One Rock	NC792399	dry heath	21/06/2011
Beinn Rosail crags	NC704406	crag	22/06/2011

NVC: M 16

[*Huperzia selago* subsp. *arctica* is known from Orkney and Shetland and is worth looking for in vc. 107. It is told from subsp. *selago* by thinner stems (5-6mm rather than 6-12mm), yellower colour, and broader leaves appressed to the stem.]

.....

The Latin binomial (from Stace, 3rd Edition, 2010) appears on the left of the first line in bold, followed by the authority in Roman font and the English Name in italics. Names on subsequent lines in Roman font are synonyms.

At the right hand side of the first line is a set of symbols showing

- status (if non-native)
- growth form
- flowering time
- trend in abundance (if any)

The **status** is one of three categories: if the plant arrived in Britain after the last ice age without the direct help of humans it is defined as a *native*, and there is *no symbol* in this position. If the archaeological or documentary evidence indicates that a plant was brought to Sutherland intentionally or unintentionally by people, then that species is an *alien*. The alien species are in two categories

- neophytes
- archaeophytes

Neophytes are aliens that were introduced by people in recent times (post-1500 by convention) and for which we typically have precise dates for their first British records. Neophytes may be naturalized (forming self-replacing populations) or casual (relying on repeated introduction). Archaeophytes are naturalized aliens that were carried about by people in pre-historic times, either intentionally for their utility, or unintentionally as contaminants of crop seeds. Archaeophytes were typically classified as natives in older floras. Absence of ○ or ● at the start of the list of traits means 'native' (i.e. not introduced by people).

Growth form describes the structure and life history of the plant. The broad categories are woody plants, herbaceous perennials and annuals, but here I have used the rather more extended system devised by the famous Danish ecologist Raunkiaer (as used in Clapham, Tutin and Warburg's *Flora of the British Isles*). The system is based on the position of the perennating organs (i.e. the location of the buds during the unfavourable season). It is unfortunate that Raunkiaer used such grandiose language for the names of his life forms, but the system is highly practical and has stood the test of time. Woody plants (phanerophytes) are characterized by the fact that they hold their perennating

buds aloft, exposed to the winds and winter weather; trees are mega-phanerophytes and dwarf shrubs are nano-phanerophytes. Bulbs and rhizomes are two examples of geophytes where the perennating buds are held underground during the unfavourable season. Cushion-forming perennials are known as chamaephytes. A great many herbaceous perennials have long-lived root systems, but their shoot systems die back to the ground each autumn, and their perennating buds are held close to the soil surface (these are the hemicryptophytes). Annual species have no perennating organs, but survive the unfavourable season as seeds (these are known as therophytes, and their buds are embryonic).

The abbreviations and subdivisions used here, in alphabetical order, are as follows:

Abbreviation	Life form	Explanation
ch	chamaephytes	small plants (< 25cm) with their buds above the soil surface
chc		cushion plants
chh		herbaceous chamaephytes
chw		woody chamaephytes
g	geophytes	plants with their perennating organs underground
gb		Bulbs
gr		plants with buds on their roots
grh		rhizomes (underground stems)
grt		root tubers
gt		stem tubers or corms
h	hemicryptophytes	herbaceous perennials, with their above ground parts dying back in the winter, and their perennating buds at ground level
hp		plants with leafy stems, without a basal rosette of leaves
hr		rosette hemicryptophytes with leafless stems and a basal rosette of leaves
hs		semi-rosette hemicryptophytes with short basal internodes, their lower leaves larger than their stem leaves
hel	helophytes	marsh plants
hyd	hydrophytes	Aquatics
mm	mega-phanerophytes	trees (woody plants > 8m tall)
m	micro-phanerophytes	tall shrubs (2m to 8m)
n	nano-phanerophytes	shrubs (25cm to 2m)
p	parasites	parasitic plants
th	therophytes	annuals that spend the unfavourable season as seeds

Flowering time is shown as the number of the month in which the species is first likely to be seen in flower in the year (4 = April, 6 = June, etc.). There has been a trend towards earlier flowering of early-season species in recent years, but summer flowering species have shown no such trend. Species that flower only once in the year (like oaks or bluebells) will typically not be found in flower any later than one month after the first flowering date. For repeat flowering species, however, the duration of

flowering is highly variable from year to year depending on the vagaries of summer droughts, early autumn frosts, and so on. I have made no attempt to indicate the last month of flowering, but for many repeat flowering species, it is October (when the first serious air frosts are likely to occur). In mild autumns, however, many species continue flowering until after Christmas time.

The final symbol in the list indicates **trends in abundance** of the species in vc. 107. Such trends are notoriously difficult to estimate from historical sources, because authors were so variable from one to the other, and so inconsistent personally, in their assessments of plant abundance. When in doubt, I have omitted any indication of trend. Species that have clearly increased or clearly decreased in the last 100 years are shown like this:

- ↑ increasing in abundance
- ↓ declining in abundance
- † extinct in vc. 107

Absence of ↑ (increasing) or ↓ (declining) from the end of the list means ‘stable’ in distribution and abundance. Note that extinction is an hypothesis rather than a fact. We suppose that a species is extinct until we rediscover the plant in one of its former habitats, or find it growing in a new place. It may be that some of the species that I have marked as declining are, in fact, already extinct. We really need to monitor all of the declining species on a regular basis and visit all of the former sites of all the species that are thought to be extinct (this is what is proposed under the new scheme proposed by the Botanical Society of the British Isles to maintain *County Rare Plants Registers*). What is obvious is that if we don’t look for these plants, then they are certain to stay extinct. One of the great joys of field botanizing is to rediscover a species that was thought to be extinct. I have been relatively free with the use of the extinct symbol † in the hope of encouraging people to prove me wrong.

Some examples of life histories follow:

th 6

This is read as “native annual, flowering from June, stable in abundance”, whereas

○ hyd 5 ↑

is read as “archaeophyte aquatic, flowering from May, increasing in abundance”, and

● n 3 †

is read as “introduced shrub, flowering from March, extinct”

[Taxa in square brackets have not been recorded from vc. 107 but are worth looking for. These include all species that are recorded from neighbouring vice counties, but not yet from East Sutherland.]

Next, the habitats are listed, in order of importance. Then an indication of distribution and abundance are given (e.g. “widespread and common”, or “local and rare”). Any sites listed in *Anthony’s Flora* are detailed. Where appropriate, tips on identification are given. Letters with numbers appearing in square brackets [NC72] are grid references. The capital letters refer to the 100km square. When there are 2 digits, the references refer to hectads (10 km squares), 3 digits to individual hectares (100m squares) and 5 digits are from GPS (although the last digits are typically inaccurate) .

The list of hectads (10km squares) within (and overlapping the borders of) vc. 107 look like this:

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC83 NC84 NC91 NC92 NC93 ND01 NH79

The letters NC, ND and NH refer to the three 100-km squares that make up the vice county.



The first number is the easting (10s of km east of the western edge of the square) and the second number is the northing (10s of km north of the southern edge of the square). The data are taken from the Botanical Society of the British Isles distribution-maps web site:

<http://www.bsbimaps.org.uk/atlas/main.php>

Finally, a list is given of the plant communities in which the plant grows in vc. 107 (NVC stands for National Vegetation Classification; Rodwell 1991-2001). The system is incomplete at present, and some common plants have no home under the NVC (e.g. *Veronica serpyllifolia*). Completing this system would be an excellent project for keen plant ecologists.

For the less common species, a list is then given of all of the recent records, showing location, grid reference (in as much detail as available), date (in as much detail as available), and recorder. If no recorder's name is given, the record is by M.J. Crawley (date class 5, post 01/01/2010).

The sequence of families, genera within families and species within genera, as well as the nomenclature follows Stace (3rd Edition, 2010).

The vascular plants of East Sutherland

LYCOPODIACEAE

Huperzia selago subsp. **selago** (L.) Bernh. ex Schrank and Mart. *Fir Clubmoss*
Lycopodium selago L.

chh 6

Heaths, moors and mountains. Widespread and locally frequent.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC52 NC60 NC61 NC62 NC63 NC70
 NC71 NC72 NC73 NC74 NC80 NC81 NC83 NC84 NC91 NC92 NC93 ND01 NH79

N of Loch Merkland	NC364331	wet heath	13/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
Loch Gaineamhach	NC515258	wet heath	11/05/2011
Loch an Ruathair	NC871357	loch side	11/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
vc 107 watershed	NC690300	wet heath	20/06/2011
An Dubh-lon	NC695324	blanket bog	20/06/2011
An Chrom-allt	NC718310	roadstone quarry	20/06/2011
Lochan Dubh	NC725322	blanket bog	20/06/2011
W summit Ben Gram Mor	NC800390	gravel	21/06/2011
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Ben Griam Mor summit	NC803389	dry heath	21/06/2011
Ben Griam Mor NW-facing	NC797395	crag	21/06/2011
Ben Griam Mor NW-facing	NC793398	ridge	21/06/2011
One Rock	NC792399	dry heath	21/06/2011
Beinn Rosail crags	NC704406	crag	22/06/2011
Mound Rock	NH770980	composite	11/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Allt Coire a Chruiteir	NC400341	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Sgialach Coire	NC370290	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Ben Hee	NC422337	mountain ridge	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Beg	NC830410	summit	15/07/2011
Ben Griam Beg E side	NC850400	wet heath	15/07/2011
Ben Griam Beg	NC820410	summit	15/07/2011
Ben Griam Beg E side	NC850412	crag	15/07/2011
Ben Griam Beg E side	NC860400	wet heath	15/07/2011
Ben Griam Beg E side	NC870400	wet heath	15/07/2011

Ben Griam Mor W crags	NC800380	crags	15/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Creag Dhubh	NC800390	composite	15/07/2011
Ben Griam Mor SW crags	NC799390	crags	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Littleferry	NH808958	sand dunes	17/07/2012 Harle & Young
Beinn Dhorain top	NC925156	summit heath	09/09/2012
Beinn Dhorain saddle	NC925160	summit heath	09/09/2012
Ben Uarie summit heath	NC928164	summit heath	09/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
Lochan nan Smugaidean	NC357218	blanket bog	03/07/2013
Maovally N slope	NC371220	blanket bog	03/07/2013
Cnoc Glas na Crionaiche	NC372188	wet heath	03/07/2013
Cnoc Glas na Crionaiche	NC373186	wet heath	03/07/2013
Maovally trig point	NC377215	blanket bog	03/07/2013
Maovally summit cairn	NC378211	blanket bog	03/07/2013
Allt Maovally	NC385206	blanket bog	03/07/2013
Cnoc Glas na Crionaiche	NC385194	blanket bog	03/07/2013
Cnoc Glas na Crionaiche	NC393204	blanket bog	03/07/2013
Cnoc Glas na Crionaiche	NC397195	blanket bog	03/07/2013
Cnoc na Beiste Kildonan	NC911284	summit heath	05/07/2013
Ben Horn summit ridge	NC807648	summit heath	06/07/2013
Meall an Fheur Loch	NC360318	summit heath	08/07/2013
Meall an Fheur Loch	NC362316	crags	08/07/2013
Meall an Fheur Loch	NC365319	wet heath	08/07/2013
Doire Dubh Loch Merkland	NC365326	crags	08/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Ben Tarvie	NH750963	crags	11/07/2013
Coire na Saidhe Duibhe	NC689285	crags	12/07/2013
Meall nan Aighean	NC693307	wet heath	12/07/2013
Coire na Saidhe Duibhe	NC695282	crags	12/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Creag Mhor Ben Armine	NC702238	crags	12/07/2013

NVC: M 16

[*Huperzia selago* subsp. *arctica* is known from Orkney and Shetland and is worth looking for in vc. 107. It is told from subsp. *selago* by thinner stems (5-6mm rather than 6-12mm), yellower colour, and broader leaves appressed to the stem.]

Lycopodiella inundata (L.) Holub *Marsh Clubmoss*
Lycopodium inundatum L

chh 6



Lycopodiella inundata raksti.daba.lv

Wet heaths and bare peat. Local and rare. A short-lived perennial of bare peaty, silty or sandy areas on mires and heaths, lake margins and areas submerged in winter but drying out in summer. Often associated with *Molinia caerulea*, *Erica tetralix*, *Drosera* spp., *Sphagnum compactum* and *S. tenellum*, the branches remain evergreen for 2 years. Much reduced by drainage. An early successional species of acid, nutrient-poor soils, relying on repeated disturbance for its persistence. Sensitive to eutrophication.

East Sutherland	NC3--0--	15/07/1970	Anon.
Feith a' Chuil	NC510244	15/07/1989	Anon.
Loch Gaineamhach	NC515258	01/08/84	Charter, Ms E.
Loch Gaineamhach	NC514258	15/07/1987	Anon.
Loch Gaineamhach	NC513257	15/07/1989	Anon.
Loch Gaineamhach	NC513257	15/07/1998	Lusby, Mr P.S.
Loch Gaineamhach	NC515258	15/07/1998	Lusby, Mr P.S.
Loch Gaineamhach	NC514257	15/07/2002	Dargie, Mr J.C.
Loch na Caillich	NC515081	01/08/78	Marshall, Mr M.J.
Loch na Caillich	NC51-07-	15/07/1987	Anon.
Loch na Caillich	NC519078	15/07/1998	Lusby, Mr P.S.
Lochan na Bric Moire	NC505240	15/07/1987	Anon.
Lochan na Bric Moire	NC510244	15/07/1989	Anon.
	NC515081	01/08/1978	M.J. Mullin
Loch na Caillich Sallachy	NC519079	15/08/1984	E. Charter
	NC515258	15/08/1984	E. Charter
	NC510260	15/08/1984	E. Charter
	NC505240	15/08/1984	E. Charter
	NC519079	15/08/1984	E. Charter

NC30 NC50 NC52

S of Loch na Caillich	NC518077	loch side	16/07/2011	Eric Meek
S of Loch na Caillich	NC518078	loch side	16/07/2011	Eric Meek

NVC: M16

Lycopodium clavatum L. *Stag's-horn Clubmoss*
Lepidotis clavata (L.) P. Beauv.

chh 6



Lycopodium clavatum

This is our common clubmoss, and the leaves have a long whitish point (1.5 to 4 mm). Typically in grassy places on heaths, moors and mountains. Frequent and widespread, but often inconspicuous beneath other vegetation.

Rogart Station		15/06/1960	M. McC. Webster
Dalnessie	NC622144	01/12/1974	J.E. Kirby
Oykel Bridge	NC388009	01/12/1974	J.E. Kirby
West of Bealach Easach	NC564247	30/06/1998	Gordon Rothero

NC30 NC31 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71 NC72 NC74 NC80 NC81
NC84 NC90 NC92 NC93 ND01 NH49 NH68 NH69 NH79

Ferry Wood Lairg	NC578064	plantation	13/05/2011
Rimsdale Forest	NC752369	plantation	20/06/2011
W Loch Trudersceg	NC715310	stream	20/06/2011
Biod Eag	NC780402	crags	21/06/2011
East Langwell	NC731065	dry heath	22/06/2011
Mound Rock	NH770980	composite	11/07/2011
Allt Coire a Chruiteir	NC400341	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Ben Griam Beg E side	NC860400	wet heath	15/07/2011
Ben Griam Beg E side	NC870400	wet heath	15/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Doire Dubh	NC365327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Cnoc a Bhreach-liathaid	NC621142	stream bank	04/05/2013
Allt Car Beag Loch Shin	NC480162	wet heath	02/07/2013
Allt Bad a'Ghordanaich	NC495151	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC513130	wet heath	02/07/2013
Allt a'Bhann Loch Shin	NC515127	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC520121	wet heath	02/07/2013
The Airde Loch Shin	NC525142	dry heath	02/07/2013
Cnoc a'Choire Leacach	NC526118	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC531116	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC539108	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC543104	wet heath	02/07/2013
N of Sallachy	NC544095	wet heath	02/07/2013
Allt Salachaidh Sallachy	NC547089	wet heath	02/07/2013
Meall Mor Achormlarie	NH670965	forest road	09/07/2013
Achormlarie Forest	NH682957	wet heath	09/07/2013
Achormlarie Forest	NH693949	forest road	09/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Creag Dal-Langal	NC895213	heather	20/06/2015
Allt Dail Bhaich	NC901211	rocky stream	20/06/2015
Allt Dail Bhaich watershed	NC884202	wet heath	20/06/2015
Tuarie Burn	NC832204	heather	20/06/2015
Allt Garbh-airigh	NH634998	wet heath	25/06/2014
Craggie Road	NC888206	track	27/06/2014
Dalbhat on the Craggie road	NC898210	track	27/06/2014
The Carnegie Road	NH637981	wet heath	25/06/2014
Raemore Wood Gruids	NC540468	grassland	24/06/2014
Meall a' Bhealaich	NC885402	conifer plantation	15/06/2015
Biod Eag Black Slope	NC779409	steep heather	18/06/2015
S of Forsinard lochans	NC869419	wet heath	15/06/2015

NVC H12

[*Lycopodium lagopus* (Laest. Ex Hartm.) is known from single sites in Easternness and Westernness (since 2007) above 800m in altitude. There is one cone on a short peduncle (less than 2cm)]

Lycopodium annotinum L. *Stag's-horn Interrupted Clubmoss*

chh 6



In thin soil over rocks on moors and mountains. Local and uncommon. The leaves are longer (up to 10mm) and lack the long whitish point of the commoner *L. clavatum*. The cones are sessile (not long pedunculate). Oykel Bridge (1833) and Ben Hee (1960).

Oykel Bridge	15/06/1833	W.A. Shoolbred
Ben Hee	15/06/1958	I. Hedge

NC30 NC32 NC43

Loch Feur	NC368314	rocky stream	13/07/2011
Ben Griam Beg E side	NC836408	wet heath	15/07/2011
S of Forsinard lochans	NC869419	wet heath	15/06/2015

NVC no data

Diphasiastrum alpinum (L.) Holub *Alpine Clubmoss*

chh 6

Lycopodium alpinum

Exposed places on moors and mountains, often with *Calluna vulgaris*. Widespread and locally frequent.

Ben Hee		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth
Ben Horn		15/08/1976	M. Marshall
Gorm Loch Mor	NC701238	18/07/1999	Gordon Rothero
Creag na h-Uidhe	NC384352	27/07/2010	Mark Jannink

NC31 NC32 NC33 NC40 NC41 NC43 NC52 NC60 NC62 NC63 NC72 NC80 NC83 NC84 NC91
ND01 NH49 NH79

W summit Ben Gram Mor	NC800390	gravel	21/06/2011
Ben Griam Mor W-rocks	NC801389	crags	21/06/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Ben Griam Beg	NC840410	mountain ridge	15/07/2011
Ben Griam Beg	NC830410	summit	15/07/2011
Ben Griam Beg	NC820410	summit	15/07/2011
Ben Griam Beg E side	NC830400	ridge	15/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Creag Dhubh	NC800390	composite	15/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Beinn Dhorain ridge	NC925156	summit heath	09/09/2012
Ben Uarie summit heath	NC928164	summit heath	09/09/2012
Doire Dubh summit	NC365320	summit ridge	08/09/2012
Cnoc na Beiste summit	NC911284	summit heath	05/07/2013
Meall an Fheur Loch	NC360318	summit heath	08/07/2013
Coire na Saidhe Duibhe	NC689285	crags	12/07/2013
Coire na Saidhe Duibhe	NC695282	crags	12/07/2013
Creag Mhor Ben Armine	NC702238	crags	12/07/2013
The Craggan	NC900165	summit heath	20/06/2015
Beinn an Eoin summit	NC392836	summit heath	20/06/2015
Beinn an Eoin summit	NC388822	summit heath	20/06/2015
Beinn an Eoin E summit	NC400851	summit heath	20/06/2015
Ben Hee NE slope	NC420330	upland	25/06/2014
Trig point Col-bheinn	NC884109	summit heath	27/06/2014
Biod Eag summit	NC776412	rocks	27/06/2014
Cnoc an Laith-bhaid Mhoir	NC759291	summit heath	25/06/2014
Beinn a' Mhadaidh trig	NC768414	summit heath	24/06/2014
Creag nan Gearr	NC952245	dry heath	15/06/2015
Cnoc Salislade Helmsdale	NC944239	dry heath	18/06/2015
vc 107 boundary peak (363m)	NC904395	summit heath	15/06/2015
SE of Meall a' Bhealaich	NC898400	wet heath	15/06/2015
Cnoc Riabhach	NC920377	summit heath	15/06/2015
Beinn Mhealaich Glen Loth	NC961149	summit heath	18/06/2015

NVC: H13, H14, H17-20

[*Diphasiastrum complanatum* (L.) Holub is known from heaths at 250m altitude on Canisp in West Sutherland, and is worth looking for in vc. 107. It is known by its erect, strongly flattened leaves, more robust habit, and ventral leaves sessile]

SELAGINELLACEAE

Selaginella selaginoides (L.) P. Beauv. *Lesser Clubmoss*
Lycopodium kraussianum Kunze

chh 6

Amongst mosses, sedges and heather in wet heaths and on rock ledges. Inconspicuous, but frequent and widespread.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC90 NC91 NC92 NC93 ND01 NH59
 NH69 NH78 NH79 NH89

Allt Belthe	NC382355	wet heath	27/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Ben Griam Mor W-facing	NC801389	crag	21/06/2011
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Fhearna Boathouse	NC746331	lake shore	20/06/2011
Doire Dubh	NC365327	dripping cliff	08/09/2012
Doire Dubh	NC365326	streamside	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
E of Loch Fiag	NC453291	wet heath	20/06/2015
N of Loch Fiag	NC444314	wet heath	20/06/2015
N of Loch Fiag	NC448308	wet heath	20/06/2015
E of Loch Fiag	NC451300	wet heath	20/06/2015
Allt an Tireidh	NC442322	wet heath	25/06/2014
E of Loch Fiag	NC453287	wet heath	27/06/2014
N of Braemore Grudie Burn	NC548312	inbye grassland	27/06/2014
S of Forsinard lochans	NC869419	wet heath	25/06/2014
Achrimsdale Fank Borrobol	NC794260	wet heath	24/06/2014
Allt Lon a' Chuil	NC735448	wet heath	15/06/2015
Loch Achnamoine Helmsdale	NC811326	loch side	18/06/2015
Cnoc an Laith-bhaid Mhoir	NC765284	wet heath	15/06/2015
SE of Meall a' Bhealaich	NC898400	wet heath	15/06/2015

NVC: M8, M10-13, M15, M32, M37, M38, H7, H20

ISOETACEAE

Isoetes lacustris L. *Quillwort*

chh 6

On stony substrates in clear upland lakes. Occasional but widespread.

Loch Muidhe	NC660050	15/08/1976	M. Marshall
Loch an Alltan Fhearna	NC750331	07/07/1998	Gordon Rothero

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC70
NC71 NC72 NC73 NC74 NC80 NC82 NC83 NC84 NH59 NH69 NH79

E Loch Buidhe	NH673983	wet heath	13/05/2011
Loch Rosail	NC717402	loch side	11/05/2011
Fhearna Boathouse	NC746331	lake shore	20/06/2011
Loch Buidhe inflow delta	NH652983	loch shore	25/06/2014

NVC: A13, A22, A23

Isoetes echinospora Durieu *Spring Quillwort*

chh 6

Isoetes setacea auct. non Lam.

On silty substrates in clear upland lakes. Much less frequently recorded than *I. lacustris*.

Loch Migdale	NH620910	24/08/1975	U.K. Duncan
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NC40 NC60 NC74 NH69 NH79

NVC: A13, A22, A23

OPHIOGLOSSACEAE

[Ophioglossum vulgatum L. *Adder's-tongue*]

grh 5

Known from Easter Ross, Orkney and the Moray coast

[Ophioglossum azoricum C. Presl. *Small Adder's-tongue*]

grh 5

Known from Orkney and the Moray coast

No records of either species for vc 107, but both are worth looking for in dune slacks, meadows, pastures, roadsides and damp grassy rides in woods; more rarely in dry grassland and lawns.

NVC: M 22; MG 5

Botrychium lunaria (L.) Sw. *Moonwort*

grh 6

Osmunda lunaria L.

Dry grassy pastures, dunes and heaths on acid soil. Often under bracken. Rarely in lawn turf. Occasional but widespread.

Dornoch	NH800890	15/07/1956	
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Achentool	NC874336	15/07/1962	
Knockfin		15/07/1962	M. McC. Webster
Glen Fiag	NC45-24-	29/06/1998	Gordon Rothero

NC30 NC31 NC32 NC33 NC42 NC62 NC63 NC70 NC73 NC80 NC83 NC90 NC91 NC92 NC93
ND01 NH78 NH79 NH88 NH89

Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Ben Griam Mor W crags	NC800380	crags	15/07/2011
Ben Griam Mor W crags	NC801388	crags	15/07/2011
E of Sallachy	NC545095	grassland	16/07/2011
Dornoch Common Good	NH802885	dune grassland	11/07/2012 Harle & Young
Dornoch Common Good	NH805884	sand dune	30/06/2013
Sron Lom Glen Cassley	NC357208	crags	03/07/2013
Sron Lom Glen Cassley	NC358208	crags	03/07/2013
Dornoch Common Good	NH804885	dune grassland	29/06/2014

NVC: CG7, CG10-12, CG14, U14

EQUISETACEAE

Equisetum hyemale L. *Rough Horsetail*
Hippochaete hyemalis (L.) Bruhin

grh 7



In dense vegetation by ditches or streams in the hills. Also on dry exposed sand dunes. Local and rare.

Ben Griam Mor
Embo Dunes

NC790380

15/07/1964
15/07/1985

A. Slack

NC73 NH89

Embo Dunes	NH816938	sand dunes	23/06/2011
Garvault Hotel	NC791388	flush	15/07/2011
Embo Dunes	NH817930	sand dune	18/05/2012
Embo Dunes	NH817930	high dunes	11/06/2015

NVC: not studied

Equisetum x trachyodon A. Braun = **E. hyemale** x **E. variegatum** *Mackay's Horsetail* grh 5

Sandy lake shores. Very local and rare.

NC51

Equisetum variegatum Schleich. ex F. Weber and D. Mohr *Variegated Horsetail* grh 5



Equisetum variegatum Janet Novak

A winter-green plant of calcareous springs, with slender, perennial shoots on which last year's cones persist. The cones are apiculate (not rounded) at the apex. The teeth of the leaf sheaths have broad scarious margins, which are much wider than the black centres, giving the whole shoot a

characteristic black-and-white striped appearance at each node. The stems are short (less than 20cm), and emerge from the water (or the moss) at a shallow angle (closer to prostrate than erect). Local and rare on wet banks in the hills.

Loch Sail an Ruchair	NC330140	17/07/1969	U.K. Duncan
Littleferry car park	NH806960	20/06/2005	Tim Harrison

NC31 NC32 NH78 NH89

Creag na h-Uidhe	NC 387348	upland flush	27/07/2010	Mark Jannink
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NVC: M10, M37, SD13-17, CG14

Equisetum fluviatile L. *Water Horsetail*

hel 6

Equisetum limosum L

Rivers, lochs, ponds, ditches, slow streams and alder carrs, usually rooting under water and preferring still water. Locally abundant and widespread; our commonest horsetail.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59
NH68 NH69 NH78 NH79 NH89

Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Meall a Bheallaich (196m)	NC883404	wet heath	11/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Lothmore gravel pit	NC970105	pond	12/05/2011
E Loch Buidhe	NH673983	wet heath	13/05/2011
Overskibo upper pond	NH724903	pond	14/05/2011
Overskibo Curling Pond	NH727902	pond	14/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Inveran	NH560970	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011

Dall na Ceardaich	NC620160	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Glen Loth	NC943118	streamside	17/05/2012

NVC: A 8-10,22; M 13,22,27; OV 26,29,32; S 3-6,8,10,12,19,25,26,28; W 1,4,5

Equisetum x dycei C.N. Page = **E. fluviatile x E. palustre**

Local and rare, but probably under-recorded

NC83

Equisetum x litorale Kühlew. ex Rupr. = **E. fluviatile x E. arvense** *Shore Horsetail*

Very local and rare, but probably under-recorded

Brora coal mine	NC890040	23/07/1961	M. McC. Webster det. C.N. Page
Marrel by Helmsdale	ND022169	19/08/1984	J.K. Butler det. C.N. Page

NC80 ND01

Linsidemore Wood	NH534991	roadside	12/07/2011 McIntosh, Payne, Youngman & Hannah
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Equisetum arvense L. *Field Horsetail*

grh 4

Cultivated and waste ground, damp roadsides, dunes, gardens, allotments, railway banks and railway sidings. Told from sterile *E. palustre* by the stem ridges: ignoring the edges there are 4 or 5 (not 3) clear ridges. Widespread and common.

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC70 NC72 NC73 NC74 NC80
NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH78 NH79 NH88
NH89

Merkland Lodge	NC400296	hamlet	13/05/2011
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Pittentrail	NC726020	village	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Tower Farm Golspie	NC835011	roadside	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
East Clyne	NC893062	stream	12/05/2011
Kildonan Station	NC901217	railway	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011

Brora Harbour	NC909037	village	12/05/2011
Kintradwell	NC922074	railway	08/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
The Bridge Hotel Helmsdale	ND026154	street	08/05/2011
Whiteface	NH708893	roadside	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Astle	NH745919	hamlet	10/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
S Embo links	NH815920	links	14/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Rogart Station	NC724019	railway	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Kirkton railway crossing	NH798985	railway	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
E of Sallachy	NC545095	composite	16/07/2011

NVC: M 27; MG 4,10; OV 9,33; S 18,23; W 6,24

Equisetum x rothmaleri* C.N. Page = *E. arvense* x *E. palustre

Local and rare, with sterile cones on normal vegetative shoots.

opposite Langwell Farm Strath Oykel NC409014 20/06/1981 R.E.C. Ferreira det. C.N. Page

NC40

Equisetum pratense* Ehrh. *Shady Horsetail

grh 4

River banks by upland streams. Local and rare. Lairg (1857), Rogart (1957), Brora (1957). No recent records.

Brora	NC890040	15/07/1957	M. McC. Webster
Tressady		15/07/1957	M. McC. Webster
Blackwater	NC797131	16/07/1987	J.K. Butler

NC50 NC60 NC80 NC91

NVC:

Equisetum sylvaticum L. *Wood Horsetail*
Equisetum capillare Hoffm.

grh 4

In open wet heath, but also in shady woods and by streams in oak and alder woods. Widespread and locally frequent.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70
 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH68
 NH69 NH78 NH79 NH89

Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Big Burn Golspie	NC840009	woodland	07/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Achentoul Burn	NC897326	waterfall	19/06/2011
Above the pony track	NC790389	wet heath	21/06/2011
West Langwell	NC696089	hamlet	22/06/2011
Shinness Lodge	NC539141	estate	11/07/2011
Ravens Rock Gorge	NC498011	woodland	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Borrobol Forest	NC803255	woodland	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Garvault Hotel	NC793388	wet heath	15/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Kildonan birch wood	NC909204	birch wood	09/09/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Big Burn Golspie	NC837011	woodland	05/05/2013
Glen Sletdale	NC925124	stream bank	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Backies	NC832012	ditch	06/07/2013
Doire Dubh Loch Merkland	NC365325	grassland	08/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Coire na Saidhe Duibhe	NC689285	crag	12/07/2013
Coire na Saidhe Duibhe Ben	NC695282	crag	12/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013

Cnoc na Tuathrach	NC901347	stream	19/06/2015
Bannock Burn Achentoul	NC874346	stream	19/06/2015
Lower Brora	NC908037	bungalows	11/05/2015
Golspie Big Burn	NC837012	woodland	10/05/2015
Raemore Wood Gruids	NC531499	conifer plantation	24/06/2014
The gorge Golspie Big Burn	NC836012	woodland	10/05/2015
The falls Golspie Big Burn	NC834013	woodland	10/05/2015
sea cliffs N of Helmsdale	ND352153	soft sea cliff	17/06/2015
Bardachan	NC701862	ditch	13/06/2015
Allt Sgrigil	ND266176	upland grassland	14/06/2015
Allt Cragaidh Gordonbush	NC856926	waterfalls	15/05/2015
upper Allt Sgrigil wood	ND240175	woodland	14/06/2015
Beinn a' Mhadaidh	NC768412	springs and flushes	18/06/2015

NVC: W6, but common in vc. 107 in open heathland

Equisetum palustre L. *Marsh Horsetail*

grh 5

All kinds of wet marshy and boggy places, river banks, etc. By streams, in meadows, marshes, fens and sometimes in *Sphagnum* bogs. Often growing with *E. arvense*, from which sterile material is told by the stem ridges: ignoring the edges there are 3 (not 4 or 5) clear ridges. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC70 NC71
NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH68 NH69
NH78 NH79 NH89

Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Knock Craggie	NC328054	roadside	12/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Lothmore gravel pit	NC970106	pond	12/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Rhinamain	NH610938	hamlet	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Above the pony track	NC790389	wet heath	21/06/2011
Garbh-allt	NC784403	stream	21/06/2011
Achneluachrach	NC679098	farmstead	22/06/2011
Birichen	NH765923	roadside	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Inveran	NH560970	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011

Ben Griam Beg	NC850400	wet heath	15/07/2011
Garvault Hotel	NC791388	flush	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011

NVC: M 13,22,24,27; MG8, MG 10; OV 26; S 4-7,16,18,25,26; U5, U6; W 1,4-6

Equisetum telmateia Ehrh. *Great Horsetail*

grh 4

Equisetum fluviatile sensu L.(1754), non L.(1753)

Equisetum maximum

Wet shady places, swampy woods, marshes, springs, muddy streams banks, ditches and damp wasdte ground. Rogart (1957), Brora (1957). Very local and rare. Absent from most of the Scottish Highlands. Only one recent record.

Brora coal mine	NC900040	15/07/1953	R. Richter
Dunrobin Castle	NC853008	14/08/1972	L.S. Garrad
R Brora	NC902041	15/07/1973	J. Soutrer

NC80 NC90

Badnellan	NC885454	hamlet	10/07/2013
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NVC: S 18; W 5

OSMUNDACEAE

Osmunda regalis L. *Royal Fern*

h 6

Struthiopteris regalis (L.) Bernh.

Boggy spots in shady woods, and in open *Molinia* mires. Rarely established in ditches by gardens. Local and rare as a native (more frequent in coastal West Sutherland), but occasional as a garden escape. Not seen recently in semi-natural habitats.

Loch na Caillich Sallachy	NC51-08-	15/07/1870	FSF
Loch na Caillich Sallachy	NC514085	21/07/1991	S.I. Butler

NC50

Ospisdale	NH713898	roadside	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Station Road Golspie	NH828998	suburbia	14/06/2015

NVC: M 25; W 5

HYMENOPHYLLACEAE

Hymenophyllum wilsonii Hook. *Wilson's Filmy-fern*

h 6

Wet rocks and woodlands in the west, absent from the east and the coast. Very local.

Meall an Fheur Loch NC300300 15/07/1973 A.G. Kenneth

NC32 NC33 NC41 NC43

Steall a'Choire NC372284 crags 13/07/2011

NVC: H14, H20, H21; W17

Trichomanes speciosum Willd. *Killarney Fern*

h 6

Sheltered damp rocks by caves and waterfalls. Very local and rare (as the gametophyte).

NH79

Loch Fleet NH7698 01/08/93 Jermy, Mr A.C., Walls, Mr R.M.

MARSILEACEAE

Pilularia globulifera L. *Pillwort*

h 6



Pilularia globulifera JC Schou

Silty mud on river-sides and loch sides, submerged for at least part of the year. Local and rare. There are more sites on the southern (vc. 106) bank of the Kyle. You need to search for this species at low tide. Note that it may be buried in mud, especially early in the season. Typically growing with *Mentha*

aquatica, *Eleocharis palustris*, *Juncus bulbosus*, *Hydrocotyle vulgaris*, *Ranunculus flammula*, *Caltha palustris*, *Galium palustre*, *Lythrum portula*, *Callitriche stagnalis*, *Callitriche brutia* subsp. *hamulata*, *Equisetum fluviatile*, *Carex rostrata* or *Carex recta*.

Invershin		15/07/1834	R. Graham
Invershin		15/07/1840	W.H. Campbell
Shin Bridge		15/07/1893	AB
Altass	NC486002	01/08/1984	Charter, Ms E.
Altass	NC486003	01/09/1984	Charter, Ms E.

Invershin	NH5777 9565	20/06/2010	Ballinger, B.R. &C.B, Dean, M.
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NC40 NH59

Altass Swamp	NH504992	swamp	12/07/2011
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NVC: M 29; OV 35

DICKSONIACEAE

Dicksonia antarctica Labill. *Australian Tree-fern* ● h 7

A rare garden plant in vc. 107, seldom seen out of doors. Always close to buildings.

Centre Street Golspie	NH831999	mews	07/09/2012
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DENNSTAEDTIACEAE

Pteridium aquilinum (L.) Kuhn *Bracken* grh 7
Pteris aquilina L., *Polypodium austriacum* Jacq.

Dry woods, bushy places, parkland on sandy soil, and heaths especially where burning has been poorly managed. Forming dense monocultures in many freely drained habitats in both sun and shade. Absent from wet soils. Often taller than head-height. Rare on dams and walls in urban areas. The pinnule margins are rolled by midge *Dasyneura filicina*. Widespread and abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH89

NVC: H 2,3; M 27; MG 1,5; OV 25,27; U 1,2,20; W 4,8,10,14-16,21-23,25

Cryptogramma crispa (L.) R. Br. Ex Hook. *Parsley Fern* h 6

Screes and other rocky places in the mountains. Local and uncommon in the west. Absent from the east and the coast.

Ben More Assynt at 1000m	NC320200	18/07/1986	J.K. Butler
Ben Hee	NC426341	09/07/1998	Gordon Rothero

NC32 NC52 NH49

NVC: U11, U15, U21

ASPLENIACEAE

Asplenium scolopendrium L. *Hart's-tongue*

h 7

Phyllitis scolopendrium (L.) Newman

Shady moist rocky places, walls and wooded banks. Also on mortar on moist, sheltered walls and damp brickwork in shade. Local and rare near the coast. Cambusmore, Dornoch (1962). Most vc. 107 records are from buildings and walls, possibly as garden escapes or relics of cultivation.

NC92 NH68 NH79

Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Kintradwell Burn	NC918077	woodland	08/05/2011
Skibo Castle fountain cave	NH735891	stonework	10/05/2011
Centre Street Golspie	NH831999	mews	07/09/2012
Dunrobin Castle garden wall	NC852008	stonework	17/05/2012
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013

NVC: OV 40; W 8,12,21,22

Asplenium adiantum-nigrum L. *Black Spleenwort*

h 6

Rocky places. Also on mortar on sheltered walls, and rarely on dry banks. Widespread but uncommon.

NC31 NC32 NC33 NC41 NC43 NC60 NC62 NC70 NC80 NC81 NC83 NC84 NC91 NC92 ND01 NH69 NH78 NH79 NH89

Skibo Castle S wall	NH735891	stonework	10/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Carn Garbh Glen Sletdate	NC906142	crag	01/07/2013
Carn Garbh Glen Sletdate	NC906134	crag	01/07/2013
Sron Lom Glen Cassley	NC357208	crag	03/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Achatomlinie	NC654990	derelict croft	13/06/2015

NVC: OV 39,41

Asplenium marinum L. *Sea Spleenwort*

h 6

Walls, cliffs and rocks close to the sea. Very local and rare, extinct in several former locations.

Navidale	ND052171	05/08/1986	J.K. Butler
Strathsteven	NC880013	15/07/1888	J. Grant
Strathsteven	NC880013	15/07/1897	ESM

NC80 ND01

Allt Choll Ballinreach NC935090 Kimmeridgian cliffs 23/06/2011

NVC: MC1, MC2

Asplenium trichomanes L. *Maidenhair Spleenwort*
Asplenium trichomanes subsp. **quadrivalens** D.E. Mey.
 Asplenium trichomanes L. subsp. *lovisii* Rothm.

h 5

Rock crevices, sheltered walls and damp brickwork. Wall ferns are notably scarce on buildings in vc. 107. Widespread but uncommon.

NC30 NC31 NC32 NC33 NC40 NC41 NC43 NC52 NC60 NC62 NC70 NC74 NC80 NC84 NC90
 NC91 NH68 NH69 NH78 NH79 NH89

Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Skibo Castle S fountain cave	NH735891	stonework	10/05/2011
Mound Rock	NH770980	crag	11/07/2011
Torboll Farm N	NH750990	wall	11/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Steall a'Choire	NC370280	rocks	13/07/2011
Doire Dubh	NC360320	rocks	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Sutherland Street Helmsdale	ND028154	old walls	09/09/2012
Doire Dubh	NC365327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Brora Bridge	NC905039	stonework	07/09/2012
Dunrobin Castle garden wall	NC852008	stonework	17/05/2012
Big Burn Bridge Golspie	NC840005	stonework	17/05/2012
Big Burn Golspie falls	NC840091	woodland	05/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Old Road Bridge Brora	NC906398	stonework	07/05/2013
Carn Garbh Glen Sletdale	NC906142	crag	01/07/2013
Carn Garbh Glen Sletdale	NC906134	crag	01/07/2013
Creag a'Bhodaich Sletdale	NC913135	rocky slope	01/07/2013
Glen Sletdale	NC915161	crag	01/07/2013
Sron Lom Glen Cassley	NC357208	crag	03/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Craggie road bridge	NC875199	stonework	20/06/2015
The falls Golspie Big Burn	NC834013	woodland	10/05/2015
The gorge Golspie Big Burn	NC836012	woodland	10/05/2015
The Mound Crag	NH762983	crag	12/05/2015

NVC: OV 38-42; W 8

Asplenium trichomanes subsp. **trichomanes** L.

Smaller leaves and more delicate than subsp. *quadri-valens*, with sori less than or equal to 2mm (not 3mm). Local and rare, but possibly under-recorded.

NC30 NC33 NC70

Asplenium viride Huds. *Green Spleenwort*
Asplenium trichomanes-ramosum L.

h 6

Crevices in base-rich upland rocks. Local and rare, much commoner in West Sutherland.

Ben Griam Beg		15/07/1962	BSBI
Ben More Assynt		15/07/1964	D.A. Ratcliffe
Meall an Fheur Loch		15/07/1973	A.G. Kenneth
Poll Burn Beinn Lunndaidh	NC785014	18/08/1978	M.J. Marshall

NC30 NC31 NC32 NC33 NC41 NC43 NC52 NC70 NC84

Doire Dubh	NC368327	crag	13/07/2011
Meall an Fheur Loch	NC362316	crag	08/07/2013

Asplenium ruta-muraria L. *Wall-rue*
Acrostichum ruta-muraria (L.) Lam.
Amesium ruta-muraria (L.) Newman

h 6

Mortared walls and basic rocks. Local and uncommon. Wall ferns are notably scarce on buildings in vc. 107.

Achany	NC568015	01/12/1974	J.E. Kirby
Strathsteven	NC880013	15/01/1975	J.E. Kirby
Migdale Rock		15/08/1976	M. Marshall

NC31 NC33 NC40 NC50 NC70 NC80 NH69 NH79 NH89

R Cassley Bridge Rosehall	NC471023	stonework	12/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Duke Street Golspie	NC838001	stonework	09/05/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
R Cassley Rosehall Bridge	NC471022	stonework	08/09/2012
Brora Bridge	NC905039	stonework	07/09/2012
Duke Street Golspie	NC838001	old walls	07/09/2012
R Cassley Rosehall Bridge	NC471022	stonework	19/05/2012
Brora Golf Club	NC909039	suburbia	27/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
Church of Scotland Rosehall	NC485129	churchyard	10/05/2015
Park Terrace Brora	NC905040	village	13/06/2015

NVC: OV 39-42; W 8

[**Asplenium septentrionale** L. (Hoffm.) *Forked Spleenwort*]

h 6

Recorded from West Sutherland in recent years, and worth searching for in the western mountains of vc. 107.

[**Asplenium ceterach** L. *Rustyback*]

h 4

Ceterach officinarum Willd.

Asplenium vulgare Hill

No records, but worth looking for close to the coast.

THELYPTERIDACEAE

Phegopteris connectilis (Michx.) Watt *Beech Fern*

grh 6

Phegopteris polypodioides Fee

Thelypteris phegopteris (L.) Slosson

On moist rocks and in woods. More frequent in the west than in the east, where it becomes local and rare. More frequent than Oak Fern with us.

NC30 NC31 NC32 NC33 NC40 NC41 NC43 NC50 NC52 NC60 NC62 NC63 NC70 NC71 NC72
NC73 NC74 NC80 NC81 NC83 NC84 NC92 NC93 ND01 NH59 NH69 NH79 NH89

Sallachy Loch Shin	NC555073	birch wood	13/07/2010	
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010	
Cambusmore	NH762981	woodland	23/07/2010	Mark Jannink
Glen Cassley	NC455050	riverbank	10/05/2011	
Loch Brora Birchwoods	NC855081	woodland	08/05/2011	
Auchintoul Wood Altass	NH503993	woodland	10/05/2011	
Kyloag Migdale	NH662909	woodland	07/05/2011	
Strath Carnaig birch woods	NH724983	woodland	13/05/2011	
The Alders The Mound	NH759985	woodland	13/05/2011	
Loth Burn waterfalls	NC945107	woodland	08/05/2011	
Loanboadich	NH608943	woodland	18/06/2011	
Migdale Wood	NH652913	birch wood	18/06/2011	
Beinn Rosail crags	NC704406	crags	22/06/2011	
Salmon ladder	NH740980	composite	11/07/2011	
Torboll Farm S	NH750980	composite	11/07/2011	
Auchintoul	NH518992	riverbank	12/07/2011	
Linsidemore Wood	NH530990	woodland	12/07/2011	
Ravens Rock Gorge	NC498011	woodland	12/07/2011	
Coire Gorm	NC360280	composite	13/07/2011	
N of Coire Gorm	NC360290	crags	13/07/2011	
Steall a'Choire	NC370280	composite	13/07/2011	
Loch Feur	NC370310	wet heath	13/07/2011	
Doire Dubh	NC360320	composite	13/07/2011	
Meallan Liath Mor	NC400320	composite	13/07/2011	
Ben Hee	NC420320	composite	13/07/2011	

Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Doire Dubh	NC365327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Carn Garbh Glen Sletdate	NC906145	dry heath	01/07/2013
Carn Garbh Glen Sletdate	NC906142	crags	01/07/2013
Carn Garbh Glen Sletdate	NC906134	crags	01/07/2013
Allt a'Choire Riabhaich	NC909129	wooded stream	01/07/2013
Arscaig Birch Wood	NC505143	birch wood	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
Sron Lom Glen Cassley	NC358208	crags	03/07/2013
Allt a'Chonic Ghlais Casley	NC379179	waterfalls	03/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
Meall an Fheur Loch	NC362316	crags	08/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Ben Tarvie	NH750963	crags	11/07/2013
Coire na Saidhe Duibhe	NC689285	crags	12/07/2013
Coire na Saidhe Duibhe	NC695282	crags	12/07/2013
Creag Mhor Ben Armine	NC702238	crags	12/07/2013
Ben Hee E flank	NC438335	crags	26/06/2014
Cnoc na Tuathrach N	NC908343	stream	19/06/2015
Craggie Bridge	NC913192	rocky stream	20/06/2015
Cnoc Bothan Uisge-beatha	NC738432	W-facing crags	16/06/2015

NVC: W2, W19, W20

Oreopteris limbosperma (All.) Holub *Lemon-scented Fern*

h 7

Polypodium limbospermum All.

Polypodium oreopteris Ehrh.

Dryopteris montana Kuntze

Moist slopes in the mountains, heathy places and steep banks in woods on acid soils. Widespread and locally abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010

Glen Cassley swimming hole	NC413116	stream	10/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
East Clyne	NC893062	stream	12/05/2011
Loanboadich	NH608944	grassland	18/06/2011
Loanboadich	NH608943	woodland	18/06/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Pony track	NC690305	wet heath	20/06/2011
Cnoc na h-lolaic	NC692348	forest	21/06/2011
Beinn Rosail crags	NC704406	crags	22/06/2011
Preas nan Sgiathanach	NC684097	wet heath	22/06/2011
Achnahuic	NC709080	wet heath	22/06/2011
Salmon ladder	NH740980	composite	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
N of Coire Gorm	NC360290	crags	13/07/2011
Sgialach Coire	NC370290	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Glen Sletdale	NC927125	bracken	01/07/2013
PROSAMO sites Sallachy	NC560065	birch wood	02/07/2013
N of Sallachy	NC544095		02/07/2013
Arscaig Birch Wood	NC505143	birch wood	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
Coill' an Tosgaire Oykel	NC344050	birch wood	09/07/2013
Coire na Saidhe Duibhe	NC689285	crags	12/07/2013
Coire na Saidhe Duibhe	NC695282	crags	12/07/2013
Creag Mhor Ben Armine	NC702238	crags	12/07/2013
Loch Cracail Mor	NC627174	stream	25/06/2014
Allt an Tireidh	NC443314	rocky stream	26/06/2014
Cnoc na Tuathrach N stream	NC901347	stream	19/06/2015
Craggie Bridge	NC913192	rocky stream	20/06/2015
Craggie Burn Waterfall	NC876200	rocky stream	20/06/2015
Allt a' Choire Mhoir	NC914175	stream	20/06/2015
lower Allt Sgrigil wood	ND222175	woodland	14/06/2015
Creag nan Gearr	NC956244	summit heath	17/06/2015
Blar Buidhe Helmsdale	NC956212	wet heath	17/06/2015
Allt Sgrigil	ND266176	upland grassland	14/06/2015
The Pap Helmsdale	NC940212	crags	17/06/2015

Beinn Dubhain Helmsdale NC937207 dry heath 17/06/2015

NVC: U 20; W 10

WOODSIACEAE

Athyrium filix-femina (L.) Roth *Lady-fern*
Polypodium filix-femina L.

h 7



Athyrium filix-femina. Note the presence of a distinct C-shaped or J-shaped indusium (cf. *A. distentifolium*, below)

Damp sheltered woods on acid or humus-rich soil and on banks, often close to streams. Widespread and common.

Sputie Burn Doll	NC884026	fallow	10/09/2012
R Brora at Rallan	NC870045	riverbank	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
Craggie road junction	NC744075	roadside	10/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Brora Bridge	NC905039	village	07/09/2012

Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Coill a Chnocain	NC446014	oak woodland	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Innisnabioraich	NC374011	riverbank	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Dunrobin Castle garden wall	NC852008	stonework	17/05/2012

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC90 NC91 NC92 ND01 NH59 NH68 NH69
 NH78 NH79 NH89

NVC: OV 27; S 3,25; W 4-6,8,10

Athyrium distentifolium Tausch ex Opiz *Alpine Lady-fern*
Athyrium alpestre (Hoppe) Rylands

h 7



Athyrium distentifolium Note the absence of any indusium (cf. *A. filix-femina*, above)

Mountain screes and acid gullies. Very local and rare.

Ben More Assynt		15/07/1891	E.S. Marshall
Ben More Assynt		15/07/1964	D.A. Ratcliffe
Meallan a Chuail	NC345291	15/07/1973	A.G. Kenneth
Ben More Assynt	NC301208	12/07/1998	Gordon Rothero
Ben Hee	NC426341	09/07/1998	Gordon Rothero
Garbh Coire Conival	NC307194	11/07/1998	Gordon Rothero
Coire a' Mhadaidh	NC305209	12/07/1998	Gordon Rothero

NC31 NC32 NC40 NC91

Ben Hee	NC427339 mountain ridge	13/07/2011	Hawker, Edwards & McIntosh
Coire Mhadaidh Conival	NC307203 wet rocks	10/08/2012	Gordon Rothero

Gymnocarpium dryopteris (L.) Newman *Oak Fern*
Thelypteris dryopteris (L.) Sloss.

grh 6

Crags, damp woods, shady rocks, screes and ravines. Widespread, but scarce on the coast. Typically less abundant than Beech Fern with us.

NC30 NC31 NC33 NC40 NC41 NC43 NC50 NC52 NC60 NC62 NC70 NC71 NC74 NC80 NC81
 NC82 NC84 NC91 NC92 NC93 ND01 NH59 NH69 NH79

Ravens Rock Gorge	NC498011	woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Craggiemore birch wood	NC735085	woodland	12/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Ravens Rock Gorge	NC498011	woodland	12/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Inchcape	NC690030	composite	16/07/2011
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Allt a'Choire Riabhaich	NC909129	wooded stream	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Arscaig Birch Wood	NC505143	birch wood	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
R Brora W of Braeigrudie	NC712103	riverbank	07/07/2013
R Brora	NC714101	ravine birch wood	07/07/2013
Meall an Fheur Loch	NC362316	crags	08/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Cnoc Cracail	NC625189	crag	25/06/2014
Cnoc na Tuathrach N stream	NC901347	stream	19/06/2015
Craggie Bridge	NC913192	rocky stream	20/06/2015
Craggan Burn	NC912178	stream	20/06/2015
upper Allt Sgrigil wood	ND240175	woodland	14/06/2015

NVC: W19

Cystopteris fragilis (L.) Bernh. *Brittle Bladder-fern*
Polypodium fragile L.

h 7

Basic rocks and walls in moist shade. Widespread and locally frequent.

NC30 NC31 NC32 NC33 NC41 NC43 NC52 NC60 NC62 NC63 NC70 NC71 NC72 NC74 NC80
 NC81 NC82 NC83 NC84 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Skibo Castle S fountain	NH735891	stonework	10/05/2011
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Salmon ladder	NH740980	rocks	11/07/2011
Doire Dubh	NC360320	rocks	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Meallan Liath Mor	NC400320	rocks	13/07/2011
Ben Griam Mor SW crags	NC800380	crag	15/07/2011
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
High Street Lairg	NC584632	village	02/07/2013
Sron Lom Glen Cassley	NC358208	crag	03/07/2013
Ben Horn E crags	NC810624	crag	06/07/2013
Meall an Fheur Loch	NC362316	crag	08/07/2013
Ospisdale House	NH713897	parkland	11/07/2013

NVC: OV38, OV40

BLECHNACEAE

Blechnum spicant (L.) Roth *Hard-fern*

h 6

Osmunda spicant L.

Acrostichum spicant (L.) Willd.

Woods, mires, heaths and moors, especially on ditch-sides on acid soils. Ubiquitous, and in almost all upland and woodland habitats.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH89

Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Knock Craggie	NC328054	roadside	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010

NVC: M15, M19; H10, H12, H18, H20-22; W 4, W10, W15, W16

DRYOPTERIDACEAE

Polystichum setiferum (Forssk.) T. Moore ex Woyn. *Soft Shield-fern* h 7
Aspidium angulare (Kit. ex Willd.) C. Presl
Aspidium aculeatum (L.) Sw. var. *angulare* (Kit. ex Willd.) H. Watson
Polystichum angulare Presl.

Dry banks in woods and shady hedge-banks, often near water, in small quantity. Told from *P. aculeatum* by the length of the lowest pinnae: in *P. setiferum* they are the same length as the penultimate pinnae, but in *P. aculeatum* the frond is tapered, so that the basal pinnae are only about half as long as the longest pair. The base of the pinnule makes a right angle (not an acute angle), with about 45 degrees on either side of the stalk. Very local and rare by the coast. Absent from most of northern Scotland, and typically planted or a garden escape with us.

NH89

Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Duke Street Golspie	NC839001	riverbank	07/09/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Achany Shin Woods	NH575997	woodland	16/05/2012
Johnstone Crescent Brora	NC905036	council houses	01/07/2013

NVC: W 8

Polystichum aculeatum (L.) Roth *Hard Shield-fern* h 7
Polypodium aculeatum L.

Woods, rocks and shady hedge-banks, often near water. Local and rather rare. The lowest, shielding pinnules are sessile and less than right-angled (acute) at the base, whereas *P. setiferum* has stalked basal pinnules that are more than 90 degrees (obtuse) at the base. Scattered and uncommon, more frequent in the east than in the west, but much commoner as a wild plant than the preceding in vc. 107.

Big Burn Golspie	NC838010	17/07/1975	J.E. Kirby
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NC31 NC33 NC40 NC41 NC43 NC52 NC80 NC83 NC91 NH78 NH79

Ravens Rock Gorge	NC498011	woodland	12/07/2010
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Salmon ladder	NH740980	birch wood	11/07/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Big Burn Backies	NC834014	woodland	05/05/2013
Big Burn Golspie	NC840009	woodland	05/05/2013
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
Carn Garbh Glen Sletdate	NC906142	crags	01/07/2013
Carn Garbh Glen Sletdate	NC906134	crags	01/07/2013

Allt a'Chonic Ghlais	NC379179	waterfalls	03/07/2013
The gorge Golspie Big Burn	NC836012	woodland	10/05/2015
The falls Golspie Big Burn	NC834013	woodland	10/05/2015
The Mound Crags	NH762983	crags	12/05/2015
Allt Cragaidh Gordonbush	NC856926	waterfalls	15/05/2015

NVC: W 8

Polystichum lonchitis (L.) Roth *Holly-fern*

h 7

Basic rock crevices, scree and ravines in the hills. Occasional on base-rich rocks in the east.

Ben Griam Mor		11/07/1900	Shoolbred, W.A. NMW
Ben Griam Beg		15/07/1962	BSBI
Ben More Assynt		15/07/1964	D.A. Ratcliffe
Creag na h'Uidhe		07/06/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth
Glen Rock Dunrobin Glen		15/08/1976	M.J. Marshall
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe
Dubh Loch Mor	NC320190	11/07/1998	Gordon Rothero
Dalphaid Glen Cassley	NC401146	07/07/1999	Gordon Rothero

NC31 NC32 NC33 NC41 NC80 NC83 NC84 NH79

Ben Griam Mor W crags	NC801388	crags	15/07/2011
Coire Mhadaidh Conival	NC30750 20340	crags	10/08/2012 Gordon Rothero
Coire Mhadaidh Conival	NC30720 20820	crags	10/08/2012 Gordon Rothero

Recorded as a **garden plant** at:

Davoch Pittentrail	NC723016	garden	10/09/2012
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NVC: OV40

Dryopteris oreades Fomin *Mountain Male-fern*

h 7

Dryopteris abbreviata auct. non DC

Scree slopes and lightly shaded rocky places on mountains. Local and rare.

Carn Dearg	NC375390	15/07/1973	A.G. Kenneth
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NC31 NC32 NC33 NC42 NC43 NH79

NVC:

Dryopteris filix-mas (L.) Schott *Male-fern*

h 7

Polypodium filix-mas L.

Woods, hedge-banks, gullies and shady places in towns. Told from *D. affinis* by the much less scaly rhachis, and absence of a black spot at the point where the pinnae stalks meet the rhachis, and by the

round-ended, tapered (not parallel-sided, truncate) pinnules. Told from *D. dilatata* by its fronds elegantly tapered to the base (not triangular with a long, bare stalk). Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC90 NC91 NC92 ND01 NH59 NH68 NH69
NH78 NH79 NH89

NVC: OV 27, 38; W 5,6,8,10,12,14,21,22,24,25

Dryopteris affinis aggregate *Scaly Male-fern*
Nephrodium affine Lowe

h 7

Woods and damp shady places amongst rocks, almost always on acid soils and in small quantity. The older records are lumped together here.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC60 NC61 NC70 NC71 NC72
NC74 NC80 NC81 NC83 NC90 NC91 NC92 ND01 NH68 NH69 NH78 NH79 NH89

NVC: W 6,8,10,22

These are apogamous diploids or triploids derived from hybridisation between *D. oreades*, the non-British *D. caucasica*, and at least one other ancestral diploid (Stace, 1997). New sporophytes grow directly from gametophyte tissue without the formation of archegonia.

Dryopteris affinis (Lowe) Fraser-Jenk. *Golden-scaled Male-fern*
Nephrodium affine Lowe

h 7

Dryopteris affinis subsp. **affinis**
Dryopteris pseudomas (Woll.) Holb & Pouzar

A plant with shiny leaves and very dense golden scales on the petioles. The lowest pinna is half as long as the longest (more tapered than *D. borrieri*). The ends of the pinnules are not squared-off, but more or less rounded at the ends, and straight sided. The teeth at the end are short and obtuse. The lowest pinnule lacks the exaggerated basal lobe of *D. borrieri*. Locally frequent.

Loch Feur	NC370310	wet heath	13/07/2011
Tulloch	NH613925	ditch	09/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Doire Dubh	NC360320	composite	13/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Inchape	NC690030	composite	16/07/2011
Allt an Laoigh Loch Shin	NC484198	wet heath	08/09/2012
Merkland Lodge	NC401294	hamlet	08/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013

Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
Grudie Burn	NC552342	stream bank	24/06/2014
A389 Braemore Grudie Burn	NC543264	roadside	24/06/2014

[*Dryopteris cambrensis* (Fraser-Jenk.) Beitel & W.R. Buck *Narrow Male-fern*]

h 7

This is mainly a northern and western taxon with densely reddish-golden-scaly petioles and broadly rounded pinnules, the lowest with a substantial rounded basal lobe overlapping the central rhachis. The lowest pinnae is less than half as long as the longest. Not uncommon in West Sutherland. Not yet recorded from vc. 107.

Dryopteris borneri* (Newman) Newman ex Oberh. & Tavel *Borrer's Male-fern

h 7

Polystichum abbreviatum DC.

The closest taxon to *D. filix-mas* with scarcely shiny leaves and only moderately dense, light-golden-scaly petioles. The lowest pinnae is more than half as long as the longest (i.e. the frond is not very tapered). Pinnules with truncate ends, often with a large tooth on each shoulder, and well toothed sides. The lowest pinnule has a large basal lobe. Widespread and locally frequent.

NC40 NC43 NC60 NC71

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Lothmore Church	NC971113	churhyard	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Rosehall Church	NC485012	churhyard	10/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
Ferry Wood Laig	NC578064	conifer plantation	13/05/2011
Rhinamain	NC589049	railway	13/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
East Clyde	NC893062	stream	12/05/2011
Clynekirkton ruins	NC894060	churhyard	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
A9 verge S of Lothbeg	NC941098	roadside	11/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011

The Alders The Mound	NH759985	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Cnoc na h-lolaic	NC692348	forest	21/06/2011
Dunrobin Glen	NC812038	stream	22/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Coul Links	NH808952	beach	23/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
A9 verge at Ballinreach	NC932087	roadside	23/06/2011
Beinn Dhorain	NC929146	streamside	17/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
Balblair Wood enclosure	NH805976	conifer plantation	07/05/2013
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Crofters Monument	ND013153	ditch	01/07/2013
Navidale	ND034168	hamlet	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Sron Lom Glen Cassley	NC358208	crag	03/07/2013
Camore Wood	NH771894	mature pines	04/07/2013
Coul Links	NH805952	sand dune	04/07/2013
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
R Helmsdale at Helmsdale	ND026152	riverbank	07/07/2013
Ord of Caithness	ND056173	stream	07/07/2013
Ord of Caithness	ND057173	coastal cliffs	07/07/2013
Tulloch	NH618932	bog	09/07/2013
Achornlarie Forest	NH693949	forest road	09/07/2013
R Evelix at Achosnich	NH729935	wooded riverbank	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
Flood	NH712887	roadside	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rosehall Forest Trails	NC479189	pine plantation	28/06/2014
Meall Mor W flank	NH649980	roadside	25/06/2014
Academy Street Brora	NC903044	bungalows	13/06/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Marrel	ND189162	roadside	14/06/2015
West Clyne	NC905640	hamlet	14/05/2015
Balblair Wood	NH803976	conifer plantation	12/06/2015
Westgarty Lodge	NC988123	woodland	14/06/2015
Muie	NC669447	hamlet	12/06/2015
Navidale Bay	ND040157	coastal grassland	17/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Bannock Burn Achentoul	NC874346	stream	19/06/2015
lower Allt Sgrigil wood	ND222175	woodland	14/06/2015

Dryopteris aemula (Aiton) Kuntze) *Hay-scented Buckler-fern*

h 7

Recorded from just one site in vc. 107 (below) and absent from most of eastern and central Scotland, but locally frequent in rocky birch woodlands in West Sutherland, so worth searching for in other sheltered birch woods, especially those close to the coast.

Allt Choll Ballinreach NC935090 Kimmeridgian cliffs 23/06/2011

Dryopteris carthusiana (Vill.) H.P. Fuchs *Narrow Buckler-fern*

h 7

Polypodium carthusianum Villars

Polypodium filix-femina L. var. *spinosum* Weiss

Dryopteris spinulosa Kuntze

Damp thickets, woods, mires and heaths. Told from small *D. dilatata* by the pale scales on its lower stipe, lacking a dark central stripe, and by the fact that the lowest pair of pinnae are rotated away from the plane of the frond to face slightly upwards. Apparently local and uncommon, but probably under-recorded.

NC41 NC80 ND01 NH68 NH69 NH78 NH79 NH89

Leathad nan Toll	NH696959	forest road	13/07/2010
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
East Clyne	NC893062	stream	12/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Golspie Burn	NC831016	pine plantation	18/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Big Burn Backies	NC834014	woodland	05/05/2013
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Carn Garbh Glen Sletdale	NC906145	dry heath	01/07/2013
Tulloch	NH618932	bog	09/07/2013
Loch Buidhe inflow delta	NH653982	wetland	09/07/2013
An Stoc-bheinn NW summit	NC635304	summit heath	25/06/2014
Golspie Big Burn bidge	NC840007	woodland	10/05/2015
An Stoc-bheinn S flank	NC644189	Molinia	25/06/2014

Loch Craicail Beag	NC629879	wet heath	25/06/2014
Golspie Big Burn	NC840008	woodland	11/05/2015
Westgarty Lodge	NC988123	woodland	14/06/2015
Cnoc Bothan Uisge-beatha	NC738432	W-facing crags	16/06/2015
S slope of Creag nan Laogh	NC707416	isolated rocks	16/06/2015

NVC: M 25, W 1,2,4,5,6

Dryopteris x deweveri (J.T. Jansen) Wacht. = **D. carthusiana x D. dilatata** h 7
Aspidium x deweveri J. Jansen

Usually quite frequent where the parents grow together, but only one confirmed record

Shinness Lodge Lairg NC556141 06/08/1999 BSBI

NC51

Dryopteris dilatata (Hoffm.) A. Gray *Broad Buckler-fern* h 7
Polypodium dilatatum Hoffm.

Woods, thickets, shady stream banks and heaths. Known by its large, triangular fronds and stem scales with dark central stripes. The tips of the fronds are often rolled into distorted galls by the fly *Chirosia parvicornis*. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH89

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Tulloch	NH613925	ditch	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Balvraid Wood	NH775940	plantation	09/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Inveran	NH560970	composite	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
N of Coire Gorm	NC360290	crags	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011

Dornoch Links W	NH780880	composite	14/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg	NC830410	mountain ridge	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Kinbrace	NC863319	hamlet	10/09/2012
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Ben Uarie upper slope	NC930163	heather	09/09/2012
Kildonan birch wood	NC909204	birch wood	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Achue	NH696912	hamlet	16/05/2012

NVC: OV 27; S 3,6; W 4,6,8,10,12,14-16,25

Dryopteris expansa (C. Presl) Fraser-Jenk. & Jermy *Northern Buckler-fern*
Dryopteris assimilis S. Walker

h 7

Cool, damp places on cliffs and screes. Ben More Assynt (1890). Local and infrequent.

Ben More Assynt		15/07/1890	F.J. Hanbury
Ben More Assynt		15/07/1891	E.S. Marshall
Meallan a Chuail		15/07/1973	A.G. Kenneth
Ben Hee		15/07/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth
Creag na h'Uidhe	NC383372	15/07/1973	A.G. Kenneth

NC22 NC31 NC32 NC33 NC43 NC50 NC62 NC72 NC74 NC80 NC83 NC91

Ben Griam Mor W-facing	NC803389	crags	21/06/2011
Ravens Rock Gorge	NC498011	woodland	12/07/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Meallan Liath Mor	NC410335	crags	13/07/2011
Ben Hee	NC421336	scree	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Creag Dhubh	NC800390	composite	15/07/2011
Creag Dhubh	NC807390	crags	15/07/2011
Ben Griam Beg	NC830410	mountain ridge	15/07/2011
Meall an Fheur Loch	NC362316	crags	08/07/2013
Black Water	NC719177	streamside crag	10/07/2013

POLYPODIACEAE

Polypodium vulgare L. *Polypody*
Ctenopteris vulgaris (L.) Newman

grh 4

Small ferns (10-25cm long) with coarse, thick, rigid texture (erect rather than arching fronds) typical of acid substrates. The basal third of the frond is parallel sided (not tapering as a result of progressively shorter pinnae towards the base). The sori are reddish brown to bright orange, and contrast with the abundant yellow spores. The mean number of indurated cells of the annulus is 13 in our plants (stripes of thick-walled cells in the annulus making "rungs of a ladder"; it ranges between 10 and 14 not 7-9). The annulus is long and thin like a old-fashioned neck-tie. Rocks, walls, sand dunes, banks and epiphytic on tree trunks. Widespread and frequent.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC52 NC60 NC70 NC71 NC72 NC74
 NC80 NC81 NC83 NC91 NC92 ND01 NH68 NH78 NH79 NH89

Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
North Lodge Rosehall	NC479018	ruined walls	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Rhinamain	NC589049	railway	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Tower Farm Golspie	NC835011	roadside	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
N Brora	NC904051	bungalows	12/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Drumliah	NH608931	ruined croft	09/07/2011
Proncy Cottage	NH771918	ditch	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011

Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Mound Rock crags	NH780985	crags	10/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Ravens Rock Gorge	NC498011	woodland	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
N of Coire Gorm	NC360290	crags	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC830410	mountain ridge	15/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
R Brora at Rallan	NC870045	riverbank	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Badnellan North Brora	NC883043	hamlet	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
North Tannachy	NC750083	hamlet	10/09/2012
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Ben Uarie upper slope	NC930163	heather	09/09/2012
Academy Street Brora	NC900044	bungalows	09/09/2012
Doire Dubh	NC365327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Coill a Chnocain	NC446014	oak woodland	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Strath Carnaig	NH716982	birch wood	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Crackaig Farm Wood	NC957105	woodland	17/05/2012
Big Burn Bridge Golspie	NC840005	stonework	17/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Gordonbush Lodge	NC845096	walled gardens	05/05/2013
Big Burn Backies	NC834014	woodland	05/05/2013
StrathHelmsdale	ND022171	roadside	05/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Crofters' Memorial	ND013154	roadside	05/05/2013
Gartymore	ND014147	hamlet	05/05/2013
North Brora Muir	NC891042	hamlet	05/05/2013

Killin Rock	NC862052	birch wood	05/05/2013
Loch Brora	NC858075	birch wood	05/05/2013
Loch Brora	NC856079	stream bank	05/05/2013
Oldtown Rock	NC853086	birch wood	05/05/2013
Woodside Achurigill	NC485015	hamlet	06/05/2013
Achness Falls Rosehall	NC468028	riverbank	06/05/2013
Glen Cassley	NC438088	birch wood	06/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Loch Fleet by Four Parks	NH775960	shore	08/05/2013
Loch Fleet by Four Parks	NH781955	shore	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Dornoch Common Good	NH805884	sand dune	30/06/2013
Glen Sletdale	NC919124	stream bank	01/07/2013
Creag a'Bhodaich Sletdale	NC913135	rocky slope	01/07/2013
Glen Sletdale	NC915161	crag	01/07/2013
Carn Garbh Glen Sletdale	NC906142	crag	01/07/2013
Carn Garbh Glen Sletdale	NC906134	crag	01/07/2013
Allt a'Choire Riabhaich	NC909129	wooded stream	01/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Sron Lom Glen Cassley	NC358208	crag	03/07/2013
Embo Muir	NH800925	lane	04/07/2013
Coul	NH801947	roadside	04/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Carn Liath Broch	NC870013	ruins	05/07/2013
Ben Horn E crags	NC810062	conglomerate	06/07/2013
Ben Horn S crags	NC811062	conglomerate	06/07/2013
Dunrobin Castle stone walls	NC850007	stonework	06/07/2013
R Brora	NC714101	ravine birch wood	07/07/2013
Meall an Fheur Loch	NC362316	crag	08/07/2013
Creagan Dubh	NH727945	crag	09/07/2013
Meall Loch Laoigh	NH735956	dry heath	09/07/2013
Creagan na Moine	NH742945	dry heath	09/07/2013
Creag Ach a'Bhathaich	NH706946	dry heath	09/07/2013
Beinn Domhnaill	NH677966	dry heath	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Badnellan	NC885045	hamlet	10/07/2013
Cnoc Dubh Beag	NH674925	dry heath	11/07/2013
Ospisdale	NH713898	roadside	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Ben Tarvie	NH750963	crag	11/07/2013
etc.			

NVC: W8, W17

[**Polypodium x mantoniae** Rothm. *Manton's Polypody* = **P. interjectum** x **P. vulgare**]

Intermediate between the parents and usually highly sterile. The fronds are *c.*27cm long and have a narrower outline than *P. interjectum* with more nearly parallel sides towards the base, but the basal

pinnae are noticeably shorter than the pinnae immediately above them. The mean number of “rungs of the ladder” is 9 or 10 but the range is from 8 to 12. The spores are empty.

No records from vc. 107 but worth searching for.

Polypodium interjectum Shivas *Intermediate Polypody*

grh 4

Larger ferns (15-60cm long) with less leathery texture (arching rather than erect fronds) typical of calcareous and neutral substrates and relatively shadier places. The basal third of the frond is tapered as a result of progressively shorter pinnae towards the base (not parallel sided). The sori are oval and yellow brown at maturity (not round and reddish or orange brown), and have abundant spores (few in hybrids). The mean number of indurated cells of the annulus (“rungs of the ladder”) ranges between 7 and 9 (not 10-14) (but note that individual annuli can vary between 4 and 19). The annulus is too short and dumpy to look like a neck-tie. Less widespread, but not uncommon in the lowlands. Most of the recently inspected material has turned out to be *P. vulgare* with 12 or 13 “rungs”, but that is not to say the plant is rare; simply that it needs confirming.

NC33 NC40 NC50 NC62 NC70 NC71 NH68 NH69 NH79

Sputie Burn Doll	NC884026	fallow	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
The Bank Rogart	NC734028	birch wood	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Achany Glen	NC570020	woodland	16/05/2012
West Helmsdale	ND202157	hamlet	27/06/2014
Gruids	NC568371	hamlet	24/06/2014
Ben Hee E flank	NC438335	crag	26/06/2014

PINACEAE

Coniferous trees have not traditionally been recorded in vc. 107 but the following species are much planted and seedlings are likely to be found in the eastern lowlands. Cones in true firs are held upright like candles (in spruce, the cones hang downwards). The needles of *Abies* leave a neat circular scar when pulled away from the shoot (the needles of *Picea* bring a “heel” of wood away with them).

Abies alba Mill. *European Silver-fir*

• mm 5

Often self-sown. Crushed foliage is not scented. Conspicuously hairy twigs visible from above between the parted needles.

Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Gordonbush Lodge Glen Brora	NC845097	parkland	12/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011

Kildonan Lodge NC904223 parkland 17/05/2012

Abies concolor Hildebr. *Colorado White Fir* ● mm 5

An uncommon ornamental, but occasionally self-sowing.

Kildonan Lodge NC904222 parkland 01/07/2013

[**Abies nordmanniana** (Steven) Spach *Caucasian Fir* or *Nordmann Fir*] ● mm 5

Fruity smell when crushed. Needles not parted above the shoot. This is the most popular Christmas tree these days, replacing *Picea abies*.

Abies grandis (Douglas ex D.Don) Lindl. *Giant Fir* ● mm 5

Highly aromatic foliage with fruity orange flavour; needles parted above the shoot.

Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Backies Curling Pond	NC839012	woodland	05/05/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Kildonan Lodge	NC904222	parkland	17/06/2015
Borrobol Lodge	NC870264	parkland	15/06/2015

Abies procera Rehder *Noble Fir* ● mm 5

Not scented. Told from *A. alba* by the needles not forming a parting along the upper surface of the twig.

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Gordonbush Lodge Glen Brora	NC845097	parkland	12/05/2011
N Helmsdale	ND026156	village	08/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011
Gordonbush Lodge Glen Brora	NC845961	walled gardens	05/05/2013
Glenrossal House Glen Cassley	NC464409	woodland	06/05/2013
Sallachy	NC549852	hamlet	06/05/2013
Sallachy	NC548784	hamlet	02/07/2013
R Brora	NC714101	ravine birch wood	07/07/2013
Sleastary	NH643963	croft	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Craggie Estate House (1908) derelict	NC872200	inbye grassland	20/06/2015
Allt Loch na Saobhaidhe at Acheilidh	NC660350	rocky stream	10/05/2015
Achnaluachrach	NC679987	hamlet	13/06/2015
Sallachy	NC548852	hamlet	13/05/2015
Merkland Lodge	NC400297	hamlet	13/05/2015
West Langwell	NC698887	hamlet	13/06/2015
Westgarty Lodge	NC988123	woodland	14/06/2015

Pseudotsuga menziesii (Mirb.) Franco *Douglas Fir*

● mm 5

Plantations and parks, often planted in large stands and occasionally self-seeding. Strong, sweet fruity resinous smell. Immediately distinguishable by its cones which have 3-pronged tassels emerging from beneath each scale. Can form an enormous tree, vying in stature with the biggest of the Wellingtonias.

NC81 NH78

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Gordonbush Lodge	NC845097	parkland	12/05/2011
Skibo Castle S fountain cave	NH735891	stonework	10/05/2011
E of Skelbo	NH800948	hamlet	23/06/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Gordonbush Lodge	NC844096	parkland	10/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Gordonbush Lodge	NC845096	walled garden	05/05/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale	NH713898	roadside	11/07/2013
Golspie Big Burn road bridge	NC840005	woodland	10/05/2015

NVC: W 10

Tsuga canadensis (Raf.) Sarg. *Western Eastern Hemlock-spruce*

● mm 5

This is an uncommon conifer with us. Always planted. The needles are tapered from the base (not parallel-sided) and the white stripes are narrower than in *T. heterophylla*.

Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
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Tsuga heterophylla (Raf.) Sarg. *Western Hemlock-spruce*

● mm 5

Plantations and old woods where it seeds freely. One of the commonest self-sown alien conifers, with shade tolerant seedlings capable of surviving many years on the woodland floor. A beautiful specimen tree if allowed to let its lowest branches droop down unhindered onto a lawn, it is furnished with leaves in an unbroken sweep from top to bottom, even in old age. Seedlings are found in plantations, woods, hedgerows, rough grass and waste ground in towns and villages, but seldom far from the parent tree. The records below are of young, self-sown plants.

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Kintradwell Burn	NC918077	woodland	08/05/2011
Gordonbush Lodge	NC844096	parkland	10/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Woodside Achurigill	NC485015	hamlet	06/05/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Sleastery	NH643963	croft	09/07/2013
Ospisdale	NH713898	roadside	11/07/2013

Ospisdale House	NH713897	parkland	11/07/2013
Lairg	NC581685	council houses	10/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Sallachy	NC548852	hamlet	13/05/2015

Picea sitchensis (Bong.) Carriere *Sitka Spruce*

• mm 5

An abundant forest tree, also widely planted in parkland. Frequently self-sown, especially on rides in conifer plantations. Foliage not scented. This is the commonest spruce with blue-green needles with sharp points. Common in plantations in the uplands and the lowlands. The recent records below are of apparently self-sown young plants.

NC30 NC50 NC51 NC52 NC60 NC61 NC71 NC83 NC90 NC92 ND01 NH59 NH69 NH78 NH79

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Lairg Station	NC582038	railway	10/04/2010
Brora Station	NC906041	railway	11/04/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
A839 watershed	NC521017	wet heath	10/05/2011
Telecoms Mast The Crask	NC522259	waste ground	11/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Carnegie Woodland	NH732892	parkland	09/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Birichen	NH765923	roadside	09/07/2011
Burnside	NH609926	lane	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Boundary Track	NC885402	forest road	15/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Doll	NC876034	hamlet	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Glenelg	NC737050	hamlet	10/09/2012
Blarbuie	NC570151	wet heath	10/09/2012
Cnoc a Ghiubhais	NC521237	wet heath	10/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012

West Shinness Lodge	NC530151	hamlet	08/09/2012
West Merkland	NC384329	hamlet	08/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
East Clyne	NC896062	hamlet	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Raemore/Gruids Woods	NC558035	wet heath	19/05/2012
Raemore/Gruids Woods	NC558035	roadside	19/05/2012
Durcha	NC500023	hamlet	19/05/2012
Loch Aish E shore	NC318105	wet heath	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
East Wood Achany Glen	NC572015	birch wood	16/05/2012
Gruids	NC566039	hamlet	16/05/2012

[*Picea omorika* (Panic) Purk. *Serbian Spruce*]

• mm 5

Planted near the coast in Easter Ross.

Picea abies (L.) H. Karst. *Norway Spruce*

• mm 5

Plantations on acid soils and as single trees elsewhere. Occasionally self-sown. Foliage not scented. This is the old-fashioned Christmas tree that dropped all of its needles on the carpet as soon as it was brought indoors. Smaller, greener, less pointy needles than Sitka spruce. The pineapple-like galls of *Adelges abietis* are common on the branch tips. Prone to “bent top”, caused by caterpillars of the moth *Dioryctria abietella*. Common in plantations in the lowlands. The recent records below are of apparently self-sown young plants.

NC40 NC50 NC61 NC81 NC83 ND01 NH68

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
West Merkland	NC384329	stream	13/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
N of Colaboll Loch Shin	NC553113	wet heath	13/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011

Tomich	NC610049	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
Lothmore gravel pit	NC971105	shingle	12/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Rhianrivach	NH629929	hamlet	13/05/2011
Clashmore Wood	NH757898	pine wood	09/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Londornach	NH751938	hamlet	09/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Cavaig North Brora	NC894041	hamlet	10/09/2012
Kilphedir Lodge	NC982185	oak woodland	09/09/2012
Academy Street Brora	NC900044	bungalows	09/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Durcha	NC500023	hamlet	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Birch Cottage Rogart	NC734029	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
etc.			

Larix decidua Mill. *European Larch*

• mm 3

In plantations, but more often as single trees; occasionally self-sown. Cone scales appressed, without recurved tips, so not at all rose-like when viewed from above. Leaves with an inconspicuous stripe beneath. Widespread and generally distributed. White wax of Larch Adelgid *Adelges laricis* often conspicuous on the needles, and the cases of the needle-miner *Coleophora laricella* may be found.

NC40 NC41 NC50 NC51 NC71 NC82 NC91 ND01 NH68 NH69

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Rhivra Spinningdale	NH667907	roadside	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Kintradwell Burn	NC918077	woodland	08/05/2011
Overskibo woods	NH727899	pine plantation	14/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Balvraid Wood	NH775940	plantation	09/07/2011
Skelbo Wood	NH731943	plantation	10/07/2011
Skelbo Wood	NH784941	plantation	10/07/2011
Mound Rock crags	NH780985	crags	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Briarhill Achue	NH682897	hamlet	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
West Helmsdale	ND018156	hamlet	05/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Badair Dhonnadh Wood	NC415131	roadside	06/05/2013
Balblair Wood Loch Fleet	NH812977	conifer plantation	07/05/2013
R Brora at Brora	NC903401	riverbank	07/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Loch Fleet by Four Parks	NH775960	shore	08/05/2013
Loch Fleet by Four Parks	NH781955	shore	08/05/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Invercassley House Rosehall	NC474154	parkland	28/06/2014
Fanich	NC879377	hamlet	11/05/2015
Doll Ford Bridge	NC870447	riverbank	11/05/2015
Railway Golspie Big Burn	NC840007	woodland	10/05/2015
Kyloag	NH660911	hamlet	08/05/2015
Ceol Mor Strath Oykel	NH557981	hamlet	12/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Ben Bhraggie Wood	NC818717	conifer plantation	11/05/2015
Ord Place Lairg	NC580589	council houses	10/05/2015
Doll	NC881278	hamlet	11/05/2015
Achnagarron	NC737489	hamlet	10/05/2015
Cnoc na Moine	NH638919	hamlet	12/05/2015
Benmore Lodge	NC321115	hamlet	12/05/2015

West Langwell	NC698887	hamlet	13/06/2015
West Clyne	NC905640	hamlet	14/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Marrel	ND163173	hamlet	14/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Kinbrace	NC862317	hamlet	16/06/2015

NVC: W 8,10

Larix x marschlinsii Coaz *Hybrid Larch* = **L. decidua** x **L. kaempferi**

• mm 3

Larix x hybrida Farquhar ex Rehder, non Schroeder

Larix x eurolepis A. Henry, nom. illegit.

Larix x henryana Rehder

This is the common larch of commercial forestry. Cones ovoid, much longer than wide. A bit rose-like when viewed from above. Leaves with a more conspicuous stripe beneath.

NH68 NH78

Dornoch The Meadows	NH799893	suburbia	10/04/2010
Badanloch Lodge	NC798333	hamlet	11/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Overskibo ponds	NH724903	pond	14/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Skelbo Wood	NH784941	plantation	10/07/2011
Skelbo Wood	NH731943	plantation	10/07/2011
Badfluich Turning	NC505015	conifer plantation	19/05/2012
Durcha	NC500023	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Dalchork Wood	NC581109	conifer plantation	04/05/2013
Dalchork Wood	NC583124	conifer plantation	04/05/2013
Dalchork Wood	NC596109	conifer plantation	04/05/2013
Dalchork Wood	NC596102	conifer plantation	04/05/2013
Big Burn car park Backies	NC837013	woodland	05/05/2013
Backies Curling Pond	NC839012	woodland	05/05/2013
Achness Falls Rosehall	NC468288	riverbank	06/05/2013
Woodside Achurigill	NC485157	hamlet	06/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Embo Road	NH806929	conifer plantation	08/05/2013
Loch Shin	NC529118	rocky shore	02/07/2013
Embo Muir	NH800925	lane	04/07/2013
Allt Horn Dunrobin Glen	NC801491	conifer plantation	06/07/2013
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
Sleastery	NH643963	croft	09/07/2013
Meall Mor Achormlarie	NH670965	forest road	09/07/2013

Rearquhar	NH744928	hamlet	09/07/2013
Raemore Wood Gruids	NC546344	conifer plantation	24/06/2014
Newton Point	NH713877	shingle beach	24/06/2014
Raemore Wood Gruids	NC542456	conifer plantation	24/06/2014
Invercassley Stores Rosehall	NC470206	waste ground	28/06/2014
Invercassley House Rosehall	NC474154	parkland	28/06/2014
Gunns Plantation Knockdhu	NC593637	hamlet	10/05/2015
Raemore Wood Gruids	NC531499	conifer plantation	24/06/2014
Craggie Plantation	NC875198	conifer plantation	20/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Clunel	NC561549	hamlet	13/05/2015
lower Allt Sgrigil wood	ND222175	woodland	14/06/2015
Fuaran Ruairidh Badninish	NH768940	conifer plantation	17/05/2015
West Langwell	NC698887	hamlet	13/06/2015
Lednabirithen	NH754933	hamlet	17/05/2015

Larix kaempferi (Lindl.) Carrière *Japanese Larch*
Larix leptolepis (Siebold and Zucc.) Endl.

• mm 3

Planted and sometimes self-sown. Cones sub-globose, less than 1.25 times as long as wide. Cone scales with recurved tips, so the cone is distinctly rose-like when viewed from above. Leaves with a more conspicuous stripe beneath.

NC40 NC90

Glen Cassley	NC468032	riverbank	10/05/2011
Bonar Bridge	NH610914	village	07/05/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012

Cedrus deodara (Roxb. ex D. Don) G. Don *Deodar*

• mm 5

Much the most commonly planted cedar with us. Drooping shoot tips; D is for Deodar. Does not self-sow with us.

Dunrobin Castle	NC850007	parkland	11/04/2010
Skibo Castle	NH732892	parkland	09/05/2011
Dunrobin Castle	NC851008	parkland	17/05/2012
Ospisdale House	NH713897	parkland	11/07/2013

[**Cedrus libani** A. Rich. *Cedar-of-Lebanon*]

• mm 5

The classic specimen tree of estates and country houses. The three cedars are easily told apart from a great distance by the way they hold their shoot tips: either level, ascending or drooping. L is for level is for Lebanon.

[**Cedrus atlantica** (Endl.) Carrière *Atlas Cedar*]

• mm 5

Ascending shoot tips; A is for Atlas. Almost all the Atlas cedars planted these days are *C. atlantica* 'Glaucu'. Not self-seeding.

Pinus sylvestris L. *Scots Pine*

• mm 5

Dry heathy woods, commonly regenerating on banks by forest tracks. Widespread and common, but often as planted individuals.

An outstandingly beautiful tree in maturity with its angular, spreading canopy and flaky salmon pink bark which all but glows in the low winter sunlight. The needles are bluish green (not grass-green as in *P. radiata* or *P. contorta*, or dark green as in *P. nigra*).

NC30 NC31 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71 NC72
NC73 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 ND02 NH59 NH68 NH69 NH78
NH79 NH89

NVC: H 2; M 16; W 4,6,10,14-16

Pinus nigra J.F. Arnold

• mm 5

Pinus nigra subsp. **nigra** *Austrian Pine*

Pinus laricio Savi subsp. *nigricans* (Host) Arcang.

Large, gaunt, dark specimen trees often used in boundary plantings and as shelter belts. Crown with long, spreading side branches, and short, stiff needles (8-12cm). Upper branches dark grey (not salmon pink as in *P. sylvestris*), and needles dark green (not blue-green *P. sylvestris* or grass-green as in *P. radiata*).

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Golspie Station	NH825997	railway	11/04/2010
N Brora	NC904051	bungalows	12/05/2011
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Front Street Embo	NH817927	village	18/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Navidale House Hotel	ND039158	parkland	05/05/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
Fanich	NC879377	hamlet	11/05/2015
Kilpedhir Lodge	NC988185	hamlet	09/05/2015
Old Town Strath Brora	NC851884	hamlet	11/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Crackaig Links	NC959101	railway	18/06/2015

NVC: OV 27; W 10

[Pinus nigra subsp. **laricio** Maire *Corsican Pine*]

• mm 5

Crown columnar with short side branches, and longer (10-18cm) flexible (not brittle) needles. Much less commonly planted than Austrian Pine as an ornamental, but an occasional forest crop on sandy soils.

Pinus contorta Douglas ex Loudon *Lodgepole Pine*

● mm 5

The commonest pine of commercial plantations on blanket bog and moorland in the uplands. Easily recognised by its dark, grass-green (not blue-green) needles in groups of 2 (not 3), and cone scales with a sharp, hooked prickle. The recent records below are of apparently self-sown young plants.

NC71 NH78 NH79

Lairg Loch Side	NC580069	suburbia	10/04/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
A839 watershed	NC521017	wet heath	10/05/2011
Telecoms Mast The Crask	NC522259	waste ground	11/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Drumliah	NH608931	ruined croft	09/07/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Boundary Track	NC885402	forest road	15/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Doll	NC876034	hamlet	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Blarbuie	NC570151	wet heath	10/09/2012
Cnoc a Ghiubhais	NC521237	wet heath	10/09/2012
Kildonan birch wood	NC909204	birch wood	09/09/2012
Alltnacaorach Loch Shin	NC506181	wet heath	08/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
Raemore/Gruids Woods	NC558035	wet heath	19/05/2012
Raemore/Gruids Woods	NC558035	roadside	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Innisnabioraich	NC374011	riverbank	19/05/2012
R. Oykel N Bank Lubcroy	NC359018	riverbank	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Loch Aish E shore	NC318105	wet heath	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012

No further detailed records presented here.

Pinus pinaster Aiton *Maritime Pine*

● mm 5

Planted occasionally in the lowlands.

NH89

[Pinus radiata D. Don *Monterey Pine*]

● mm 5

Pinus insignis Douglas ex Loudon

Planted occasionally in the lowlands. Known at once by its bright, grass-green foliage. Closer up, you will notice that the needles are in bundles of 3 (it is the only common 3-needled pine in vc. 107; the others are all either 2- or 5-needled).

ARAUCARIACEAE

Araucaria araucana (Molina) K. Koch *Monkey-puzzle*
Araucaria imbricata Pavón

• mm 5

Planted ornamental in towns and villages close to the coast, but seldom self-seeding. Dornoch and Dunrobin Castle are the oldest records. None of the recent records (below) are self-seeded, and most of the trees appear to be single-sexed (i.e. functionally dioecious).

Dornoch Main Street	NH798895	street	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Carnegie Woodland	NH732892	parkland	09/05/2011
Skibo Castle	NH734888	parkland	09/05/2011
East Langwell	NC726064	hamlet	22/06/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Culgower House	NC976119	parkland	17/05/2012
Golspie Inn Golspie	NC839004	roadside	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Embo	NH817928	village	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Ord Place Lairg	NC580589	council houses	10/05/2015
Golspie S	NH824997	village	09/05/2015
Lairg	NC581685	council houses	10/05/2015
Lairg	NC579688	bungalows	10/05/2015
Balblair	NH799973	hamlet	12/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

TAXACEAE

Taxus baccata L. *Yew*

mm 3

Bird-sown seedlings crop up in gardens, on old brick walls and waste places. Planted in other situations like hedgerows. and churchyards.

Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010

Rogart Church	NC738035	churchyard	12/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
East Clyne	NC896062	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Ospisdale	NH713898	roadside	11/07/2013
St Callan's Rogart	NC738352	churchyard	10/05/2015
Rhives Farm Golspie	NC828040	hamlet	11/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

NVC: OV 41, 42

CUPRESSACEAE

Metasequoia glyptostroboides Hu & W.C.Cheng *Dawn Redwood* ● mm 5

Rare specimens planted in parkland. For identification, see *Taxodium*.

Taxodium distichum (L.) Rich. *Swamp Cypress* ● mm 5

Rare specimens planted in parkland, in wetter conditions than the last species.

Superficially similar, with deciduous finely-pinnate leaves, they are told apart quite simply by the orientation of their leaves: in *Metasequoia* the leaves are in strictly opposite pairs, while in *Taxodium* the leaves are alternate and never paired. Also, *Metasequoia* has more leaflets per leaf (c 25 on each side of the midrib) than has *Taxodium* (c. 15 on each side).

[Sequoia sempervirens (D. Don) Endl. *Coastal Redwood*] ● mm 5
Taxodium sempervirens D. Don

Much less widely planted than Wellingtonia, but sometimes (unlike that species) producing seedlings.

Sequoiadendron giganteum (Lindl.) Buchholz *Wellingtonia* ● mm 5

These trees form some of our most outstanding landscape features, often visible from miles away. Grows best on acid sandy soils, but by no means confined to them. There were several mass-plantings in the late nineteenth century. Wellingtonia trunks are remarkably strong and resilient in high winds. Not self-seeding with us.

Dunrobin Castle	NC850007	parkland	11/04/2010
Skibo Castle	NH736890	parkland	09/05/2011

Cupressus macrocarpa Hartw. ex Gordon *Monterey Cypress* ● mm 6

An occasional road-side specimen tree and sometimes planted as hedging in the lowlands, especially in golden-foliaged forms like 'Goldcrest'. Crushed foliage is fragrant of lemon. Not self-seeding.

Brora Catholic Church	NC906037	bungalows	09/09/2012
Littleferry	NH806956	hamlet	07/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Embo	NH817928	village	08/05/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Lower Brora	NC908037	bungalows	11/05/2015
Little Ferry	NH805956	hamlet	14/05/2015
West Langwell	NC698887	hamlet	13/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

[X Cuprocypris leylandii (A.B. Jacks. & Dallim.) Farjon *Leyland Cypress*] ● mm 6

Far too vigorous for use as a hedging plant in small gardens, growing at over 1m per year. Can make a magnificent specimen tree when free grown especially in one of its coloured forms like 'Haggerston Grey' (blue) or 'Castlewellan' (golden). The foliage is unscented.

[Xanthocyparis nootkatensis (D. Don) Farjon & D.K. Harder *Nootka Cypress*] ● mm 6
Chamaecyparis nootkatensis (D. Don) Spach

This is a huge, pyramidal tree at maturity, with beautiful pendulous foliage, hanging in long curtains from down-swept branches. Uncommon in plantations and on larger estates. Crushed foliage has a heavy, oily unpleasant smell.

Chamaecyparis lawsoniana (A. Murray bis) Parl. *Lawson's Cypress* ● mm 6 ↑
Cupressus lawsoniana A. Murray

A common hedging plant in towns and villages and an uncommon plantation species. Fruiting freely and producing abundant seedlings. Crushed foliage has a resinous parsley-like smell (not fruit cake, as with *Thuja plicata*). Also seeding freely in acid woodlands near plantations, with moderately shade tolerant seedlings. Commonly self-sown in gardens and on walls and waste ground, often a long way from parent trees. All the records below are of self-sown seedlings.

Dunrobin Castle	NC850007	parkland	11/04/2010
Brora Station	NC906041	railway	11/04/2010
Clashmore	NH747895	village	10/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
N Brora	NC904051	bungalows	12/05/2011
Clashmore Wood	NH757898	pine wood	09/05/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Gordonbush Lodge Glen Brora	NC844096	parkland	10/09/2012
Balclaggan	NC738046	hamlet	10/09/2012
Kildonan Crossing Cottage	NC901216	abandoned garden	09/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Sallachy	NC549852	hamlet	06/05/2013

Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
West Clyde	NC905640	hamlet	14/05/2015
Sallachy	NC548852	hamlet	13/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Fuaran Ruairidh Badninish	NH768940	conifer plantation	17/05/2015
Achinduich	NC580003	hamlet	12/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Yellow-foliaged cv. 'Stewartii' planted in a remote settlement:

Truderscaig settlement	NC704342	Molinia bog	21/06/2011
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Chamaecyparis pisifera (Siebold and Zucc.) Siebold and Zucc. *Sawara Cypress* ● mm 6
Retinispora pisifera Siebold and Zucc.

Crushed foliage has an acrid resinous smell (not fruity).

Kildonan Lodge	NC904223	parkland	17/05/2012
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Thuja plicata Donn ex D. Don *Western Red-cedar* ● mm 5 ↑

Common in plantations and as a specimen tree in estates and larger gardens. Crushed leaves smell deliciously of fruit cake (cf. the bitter parsley smell of *Chamaecyparis lawsoniana*). Self-seeding in conifer plantations. Seedlings occasionally found on waste ground in towns.

Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Back Road Golspie	NC829000	council houses	08/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011
Gordonbush Lodge	NC844096	parkland	10/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Big Burn Backies	NC834014	woodland	05/05/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
West Langwell	NC698887	hamlet	13/06/2015

Juniperus communis L. m 5
Juniperus communis subsp. **communis** *Common Juniper*

Woodlands, heaths, rocks, moors and sea cliffs. Locally frequent. Also found very locally in an interesting sand-dune community, growing on hummocks with *Empetrum nigrum*, *Polypodium vulgare* and *Cerastium arvense* (see Juniper dunes below).

Glen Cassley	NC455053	15/09/1975	J.E. Kirby
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NC40 NC50 NC60 NC70 NC81 NC92 NH69 NH78 NH79 NH88 NH89

Spinningdale Bog SSSI	NH667907	valley fen	10/07/2010
Rhivra Spinningdale	NH667907	roadside	10/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010

Ledmore Wood	NH664893	ancient woodland	12/07/2010
Glen Cassley	NC468032	riverbank	10/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
Lothmore gravel pit	NC970105	pond	12/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Clashcoig	NH639940	wet heath	13/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Dornoch Common Good	NH801882	sand dunes	09/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH806907	Juniper dunes	14/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Maikle Wood Viewpoint	NH605948	dry heath	18/06/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Migdale Wood	NH652911	pine wood	18/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Coul Links	NH808952	sand dune	23/06/2011
Embo dune slacks	NH815935	dune slacks	23/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Burnside	NH609926	lane	09/07/2011
Mound Rock	NH770980	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Garbh-allt	NC737052	roadside	10/09/2012
Rhemusaig Quarry Rogart	NC731020	abandoned quarry	10/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Royal Dornoch SE dunes	NH803893	sand dune	20/05/2012
Royal Dornoch quarry	NH806895	quarry	20/05/2012
Durcha	NC500023	hamlet	19/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
The Bank Rogart	NC734028	birch wood	18/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Rhemusaig Rogart	NC732021	birch juniper	18/05/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012

Craggie Water	NC913192	rocky stream	17/05/2012
Achness Falls Rosehall	NC468288	riverbank	06/05/2013
Craggie Burn Bridge	NC913192	stream bank	01/07/2013
R Evelix at Cuthill Bridge	NH748878	riverbank	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Meall an Fheur Loch	NC360318	summit heath	08/07/2013
Witches Pool Dornoch	NH800892	pond	08/07/2013
Tulloch	NH618932	bog	09/07/2013
Tulloch	NH622937	roadside	09/07/2013
West Rearquhar	NH732931	heathy bank	09/07/2013
Feith Bhuide	NH690905	pine plantation	11/07/2013
Ben Tarvie	NH750963	crag	11/07/2013
Royal Dornoch Quarry	NH806895	crag	29/06/2014
Craggie Water	NC913192	rocky stream	27/06/2014
Craggie Water	NC909191	rocky stream	27/06/2014
Royal Dornoch Quarry	NH806895	quarry	08/05/2015
Dornoch Common Good	NH800883	dune grassland	08/05/2015
Allt Loch na Saobhaidhe	NC660350	rocky stream	10/05/2015
Cnoc na Moine	NH638919	hamlet	12/05/2015
Allt Leacach Migdale	NH652914	pine woodland	08/05/2015
Kyleoag Chambered Cairn	NH662911	ruin	08/05/2015
Migdale	NH638924	wet heath	08/05/2015
above Rhemusaig	NC733219	hamlet	10/05/2015
Longuish	NH648917	wet heath	08/05/2015
Rosehall	NC470021	village	10/05/2015
Achuan	NH626951	wet heath	08/05/2015
Rhivra	NH671904	hamlet	08/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Dornoch Common Good	NH803885	damp grassland	11/06/2015
Cnoc nam Bo Riabhach	NC904395	summit heath	15/06/2015
Craggie Bridge	NC913192	rocky stream	20/06/2015
Allt Cragaidh Gordonbush	NC856926	waterfalls	15/05/2015
Dornoch Common Good	NH800882	damp grassland	11/06/2015

Juniperus communis subsp. **nana** (Hook.) Syme

n 5

On rocks and moorland in the uplands, along with intermediates. Leaves 15mm or smaller (not up to 20mm) mucronate (not acuminate, sharp-pointed).

NC31 NC41 NC43

ANGIOSPERMS

PRE-DICOTS

NYMPHAEEACEAE

Nymphaea alba L. *White Water-lily*
Castalea speciosa Salisb.

hyd 7

Lochs and lochans, and planted in ornamental lakes and garden ponds.

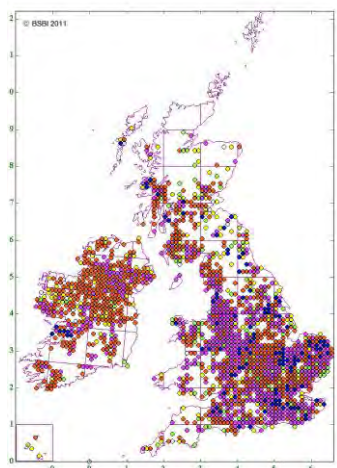
NC30 NC31 NC42 NC50 NC52 NC60 NC61 NC63 NC70 NC71 NC73 NC74 NC80 NC91 NH69
 NH78 NH79

Green Loch	NC722394	01/07/1998	Gordon Rothero
Garvault Hotel	NC782386	hamlet	11/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/201
Skibo Castle S aspect	NH736890	parkland	09/05/2011
Palm Loch	NC708411	loch	21/06/2011
N of Green Loch	NC720400	loch	22/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Loch Beinn Domhnaill	NH680956	loch	09/07/2013
Loch Craicail Beag	NC631644	loch	25/06/2014

NVC: A 7,8,9,10,11,15; S 4,5,6,8,13

[Nuphar lutea (L.) Sm. *Yellow Water-lily*]
Nymphaea lutea L.

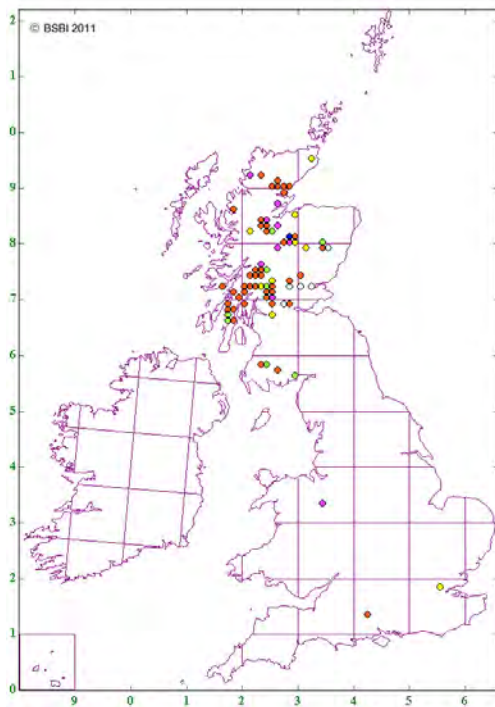
hyd 6



Rivers, canals, lakes, ditches and ponds. Apparently not native in vc. 107 but worth looking for as a garden escape in lowland areas.

NVC: A 5,7,8,10,11,13,15; S 8,14

Nuphar pumila (Timm) DC. *Least Water-lily*



Lochans. One of our vc. 107 specialities. Local, but abundant in those lochans where it is found.

Little Rogart	NC72-03-	15/07/1960	M. McC. Webster
Loch na Caillich Sallachy	NC515082	01/08/1978	M.J. Marshall
Knock Arthur	NC763067	15/08/1984	E. Charter
Loch a Choin-duim	NC763067		C. & B.I. Lawson

NC32 NC50 NC60 NC61 NC70 NC80 NH79

Loch na Caillich	NC515085	lochans	16/07/2011
Loch na Caillich	NC517083	lochans	16/07/2011
Loch Coire na Bruaiche	NC635165	lochans	16/07/2011
Dall na Ceardaich	NC620160	lochans	16/07/2011

NVC: A 7, 13

SAURURACEAE

Houttuynia cordata Thun. *Fish-plant*

• grh 6

A very distinctive plant in flower with its dense central cone and 4 perianth-like bright-white bracts immediately below it. The commonest form is the red-and-gold leafed cultivar 'Chameleon'. Increasingly popular as a garden plant, and the first outcasts are beginning to be seen.

Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012

ARISTOLOCHIACEAE

[**Aristolochia clematitis** L. *Birthwort*] • grh 6

An ancient introduction, used as an aid to parturition (hence the English name) and often associated with ancient ruins.

Recorded from the Moray coast.

LAURACEAE

Laurus nobilis L. *Bay* • mm 5

Much grown by back doors as a source of culinary bay leaves. Also common as a specimen in pots on terraces and occasionally in wilder situations in shrubberies. Rarely clipped as a hedge. Seldom self-sown, more commonly found as an outcast or relic.

Golspie Biblical Garden	NC837001	botanical garden	07/09/2012
Ospisdale House	NH713897	parkland	11/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Lonemore	NH764884	hamlet	17/05/2015

EU-DICOTS

CERATOPHYLLACEAE

[**Ceratophyllum demersum** L. *Rigid Hornwort*] hyd 7

Rivers, canals, ditches and ponds, in nutrient rich water. Known from other bottle-brush-like water plants by its leaves in complete whorls, the leaves themselves forked in two, then forked again, and bearing large, sparse teeth.

NVC: A 2,3,5,8,11,12,15,16; S 8,18

Recorded from the Moray coast.

PAPAVERACEAE

Papaver pseudoorientale (Fedde) Medw. *Oriental Poppy*
Papaver bracteatum Lindley var. *pseudoorientale* Fedde
Papaver orientale auct., non L.

• hr 6

The common perennial poppy of cottage gardens and herbaceous borders. Often out-growing its place in the garden and occasionally found as an outcast on waste ground in towns and villages.

NH89

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Rosehall	NC470021	village	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
Embo	NH817928	village	23/06/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kilmaree	NH799982	hamlet	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011

Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Helmsdale	ND026154	village	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
East Helmsdale	ND031155	walls	01/07/2013
High Street Lairg	NC584063	village	02/07/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Sleastary	NH643963	croft	09/07/2013
Rosehall	NC470022	village	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
North Brora	NC909044	bungalows	19/06/2015
Pittentrail	NC726194	village	10/05/2015
Rosehall	NC470021	village	10/05/2015
Ord Place Lairg	NC580589	council houses	10/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Lairg	NC579688	bungalows	10/05/2015
Golspie S	NH824997	village	09/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Macdonald Place Pittentrail	NC721228	council houses	12/06/2015
Kinbrace	NC862317	hamlet	16/06/2015

Clash Breac Lairg	NC588634	new housing	12/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Marrel	ND016173	hamlet	14/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Papaver atlanticum (Ball) Cross. *Atlas Poppy*

● hr 6

This is the orange-flowered perennial with long fruits and glaucous rosette leaves.

Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Ospisdale House	NH713897	walls	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013

Papaver somniferum L. *Opium Poppy*

○ th 7 ↑

Papaver somniferum subsp. **somniferum**

Papaver somniferum L. subsp. *hortense* (Hussenot) Syme

One of the commonest cottage garden plants. Widespread as a self-sown escape in towns and villages throughout on waste ground, in pavement cracks and as a garden weed. A wide range of petal colours (from white and pink to red and dark purple), spotting (from plain to distinctly black-blotched), degrees of petal dissection (entire to deeply ragged) and petal doubleness (single to fully double pom-poms) are found.

NC71 NC92 ND01 NH69

Dornoch River Street	NH798895	suburbia	10/04/2010
Lonemore	NH764884	hamlet	11/07/2010
Rosehall	NC470021	village	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Mill Way Brora	NC904040	waste ground	08/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Embo	NH817928	village	23/06/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Kilmaree	NH799982	hamlet	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012

Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar	NH608921	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Pittentrail	NC726019	village	04/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Academy Street Brora	NC903044	bungalows	13/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

Papaver rhoeas L. *Common Poppy*

o th 6

Despite its name, this is not the common poppy of vc. 107. Local and rare on disturbed ground and by railways. Told in side-view from *P. dubium* by its almost square (not elongated) capsules, and in top-view by its greater number of stigma rays (8-12 rather than 7-9).

NC84 NH69

Brora Golf Course	NC913043	sand dunes	11/07/2010
Park Court Brora	NC904040	bungalows	08/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Brora Golf Course	NC910039	club house	23/06/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012

NVC: OV 3, 6-9, 13-19, 21, 24, 25

Papaver dubium L. *Long-headed Poppy*

o th 6

This is the common poppy of vc. 107. Lowlands, in cornfields, dry arable land, disturbed waste ground, cinder tracks and wall-tops; generally distributed but commonest on acid sandy soils. Told from *P. rhoeas* by its elongated capsules and fewer stigma rays (7-9 not 8-12).

NC60 NC70 NC80 NC83 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Brora Harbour	NC909037	village	12/05/2011
Overskibo Curling Pond	NH727902	pond	14/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Royal Dornoch Golf Course	NH812915	links	14/05/2011
Royal Dornoch car park	NH800894	waste ground	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Rogart Station	NC724019	railway	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Academy Street Brora	NC900044	bungalows	09/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Skibo Golf Sheds	NH732872	waste ground	16/05/2012
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Maintenance Yard	NH802893	trailer	02/07/2013
Dornoch Coastguard Station	NH802892	waste ground	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Embo House	NH803920	arable	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013

Dornoch High Street	NH795897	cultivated ground	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Rowan Crescent Dornoch etc.	NH793899	bungalows	13/07/2013

NVC: MG 1; OV 2, 3, 5, 9, 17

Papaver argemone L. *Prickly Poppy*

o th 6

Roemeria argemone (L.) C. Morales, L. Mend. & Romero Garcia

Dry arable field margins and disturbed ground on poor sandy soils. Local and very rare.

Dornoch Links	NH800830	12/07/1983	BSBI
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NH88

NVC: OV 3

Papaver nudicaule L. *Iceland Poppy*

• th 6

Manse Road Lairg	NC582069	council houses	16/05/2012
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Meconopsis cambrica (L.) Vig. *Welsh Poppy*

• h 6 ↑

Papaver cambricum L.

A common garden plant, self-seeding in rockeries and on walls. Often escaping and found on brickwork in alleyways in towns, cracks in paving, bases of walls in towns and villages throughout. On the reservoir wall at Lairg (MJC, 22 September 1996).

NC40 NC50 NC70 NC82 ND01 NH59 NH68 NH69

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Rosehall	NC470021	village	12/07/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011

Kildonan Lodge	NC904222	hamlet	11/05/2011
Dalchalm	NC909056	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Spinningdale	NH674899	meadow	07/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Kinbrace Burn	NC872285	hamlet	19/06/2011
West Langwell	NC696089	hamlet	22/06/2011
Embo	NH817928	village	23/06/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Kilmaree	NH799982	hamlet	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
etc.			

Meconopsis betonicifolia Franch. *Himalayan Blue Poppy*

• h 7

Classic Scottish garden plants, but very seldom seen outside well-tended gardens

Sleastary	NH643963	croft	09/07/2013
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Chelidonium majus L. *Greater Celandine*

○ hs 5

Hedge-banks, roadsides and waste places, usually in or near villages. Very local and rare. Not seen recently.

NC92

Eschscholzia californica Cham. *Californian Poppy*

● th 7 ↑

Rubbish tips, pavements and waste places; casual. Much increased in popularity as a garden plant, and now an occasional garden escape on pavements and at bases of walls in towns and villages. Much less frequent in vc. 107 than further south.

Camore	NH778903	council houses	12/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Camore	NH775903	bungalows	30/06/2013

Macleaya x kewensis Turrill *Hybrid Plume-poppy*

● grh 6

Macleaya x cordata auct., non (Willd.) R. Br.

Bocconia x cordata sensu G.C. Brown ex Druce et auct., non Willd.

A tall herbaceous border plant, occasionally found as an outcast on tips or waste ground. Rarely self-sown with us.

Skibo Castle walled garden	NH737891	waste ground	10/05/2011
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Lamprocapnos spectabilis (L.) Fukuhara *Bleeding-heart*

● grh 4

Dicentra spectabilis

Much rarer than the following, but sometimes mis-recorded for it. A rare casual outcast.

Sleastary	NH643963	croft	09/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Ord Place Lairg	NC580589	council houses	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Sallachy	NC548852	hamlet	13/05/2015
School Road Helmsdale	ND027155	village	14/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015

Dicentra formosa (Haw.) Walp. *Bleeding-heart*
Fumaria formosa Haw.

• grh 4

A popular cottage garden plant found occasionally as a persistent outcast.

Rosehall	NC470021	village	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
Shinness Lodge	NC539141	estate	11/07/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Rosehall	NC470020	village	06/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Embo	NH817928	village	08/05/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Corydalis solida (L.) Clairv. *Bird-in-a-bush*
Fumaria bulbosa L. var. *solida* L.
Capnoides solida (L.) Moench, nom. illegit.
Corydalis bulbosa (L.) DC., nom. illegit.

• grt 4

Plantations, very local and typically not long-persistent.

Dornoch The Meadows	NH799893	suburbia	10/04/2010
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Pseudofumaria lutea (L.) Borkh. *Yellow Corydalis*
Fumaria lutea L.
Corydalis lutea (L.) DC.

• hp 5

A universal cottage garden rockery plant, found on walls, pavements and gravel paths in towns and villages. Common in the lowlands.

Lairg Main Street	NC584063	street	10/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Coal Pit Road Brora	NC903040	village	08/05/2011
Skibo Castle S aspect	NH736890	walls	09/05/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Riverside Brora	NC905040	semi-detached	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
High Street Lairg	NC584063	village	02/07/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
Sleastary	NH643963	croft	09/07/2013

Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Park Terrace Brora	NC905040	village	13/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

Ceratocarpus claviculata (L.) Lidén *Climbing Corydalis*

th 6

Fumaria claviculata L.

Corydalis claviculata (L.) DC.

Amongst rocks in woods, scrub, bracken and by roadsides. Local and infrequent, but sometimes abundant.

Morvich			John Anthony
Gordonbush			John Anthony
Strath Brora			John Anthony
Helmsdale			John Anthony
Ord of Caithness sea cliffs			BSBI
The Ord Lairg	NC574055	17/09/1993	P.A. Evans

NC40 NC50 NC63 NC70 NC71 NC80 ND01 NH78

Carnegie Golf Course	NH733872	gorse scrub	10/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Linsidmore	NH545991	hamlet	12/07/2010
Marians Rock	NC747012	cliff	13/05/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Linsidmore	NH540990	woodland	12/07/2011
Altass roadside	NH501994	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Coastguard Lookout Ord	ND055172	coastal heath	05/05/2013
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
A9 underpass at Ord	ND048173	roadside	07/07/2013
Ord of Caithness	ND057173	coastal cliffs	07/07/2013
Feith Bhuide	NH690905	pine plantation	11/07/2013
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Killin Rock Strath Brora	NC862535	birch wood	11/05/2015
Marrel	ND018172	woodland	14/06/2015

NVC: W 10, 16

Fumaria capreolata L. *White Ramping-fumitory*

th 5

Fumaria capreolata subsp. **capreolata**

Fields and waste ground, very rare. Told by its large flowers (10-13mm), and its rigidly recurved fruiting pedicels.

Bonar Bridge	NH608918	18/10/1986	M.J. Marshall det. M.G. Dakar
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Dudgeon Drive Brora NC902033 council houses 14/06/2015
 Brora Rangers FC car park NC902035 compact ground 14/06/2015

ND01 NH69

Fumaria bastardii Boreau *Tall Ramping-fumitory* th 5

Arable and waste ground. Very local and rare.

NC80 NH89

Fumaria muralis Sond. ex W.D.J. Koch *Common Ramping-fumitory* th 5

Fumaria muralis subsp. **boraei** (Jord.) Pugsley

Fumaria boraei Jordan

Waste ground and hedge-banks, rare and sporadic. Told by its spatulate lower petal, dentate sepals (at least at the base), and flowers 9-11mm.

NC70 NH78

NVC: OV 4,13

[**Fumaria purpurea** Pugsley *Purple Ramping-fumitory*] o th 5

Arable and waste ground. Widespread in Orkney and Inverness, so worth looking out for.

Fumaria officinalis L. *Common Fumitory* o th 5

Fumaria officinalis subsp. **officinalis**

Cultivated fields, set-aside, garden ground; common and generally distributed. Frequent on calcareous soils, occasional elsewhere. Told by its medium-sized flowers (less than 9mm but more than 6mm), and its fruits which are broader than long, and rather flat-topped. The sepals are coarsely toothed all around, and might key out erroneously as *F. bastardii*.

NC50 NC70 NC80 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Camore Wood	NH771894	gravel pit	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
North of Scotland Kart Club	NH819976	links	14/05/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Hilton	NH804915	hamlet	04/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014

Brora Golf Club	NC909039	suburbia	27/06/2014
Deans Park Dornoch	NH792895	soil piles	11/06/2015

NVC: OV 9,10,14-16,18,24,33

[*Fumaria densiflora* DC. *Dense-flowered Fumitory*] ○ th 6
Fumaria micrantha Lagasca

Told by its relatively larger flowers (at least 6mm) and sepals (at least 1.5mm), and told from the much commoner *F. officinalis* by its longer bracts (at least as long as the pedicels, often longer). In Easter Ross and Orkney, so worth looking out for.

BERBERIDACEAE

Epimedium pinnatum* subsp. *colchicum* Boiss. *Barren-wort ● hr 4

A common garden plant used for ground cover in partial shade, occasionally found as an outcast. Its flowering stem is leafless (cf. *E. alpinum* which has a stem-leaf) and the inflorescence has few if any glandular hairs.

Dornoch The Meadows	NH799893	suburbia	10/04/2010
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Epimedium x versicolor* C. Morren. *Barren-wort ● hr 4

The inflorescences are more strongly glandular hairy than in the above.

Skibo Castle walled garden	NH737891	waste ground	10/05/2011
Shinness Lodge	NC539141	estate	11/07/2011
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Macdonald Place Pittentrail	NC721228	council houses	12/06/2015

[*Berberis vulgaris* L. *Barberry*] ● n 5 ↓

Hedges and old walls in low-lying districts; local and rare. Discovered in the nineteenth century to be a host plant for the black rust fungus of wheat, so many barberry hedges were grubbed out and replaced by hawthorn and blackthorn.

Recorded from adjacent vice counties, so worth looking out for.

Berberis thunbergii* DC. *Thunberg's Barberry ● n 5

A deciduous bush with glabrous twigs and simple spines (not 3-partite) often grown in purple-leaved forms (the '*Atropurpurea* group'). Very widely planted in gardens and landscaping schemes. Conspicuous in autumn when the foliage turns vivid colours.

Embo	NH815928	village	11/07/2010
Camore	NH778903	council houses	12/07/2010
Tomich	NC610049	hamlet	13/05/2011
Little Rogart	NC732041	hamlet	12/05/2011

Kinbrace	NC863319	hamlet	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Camore	NH775903	bungalows	30/06/2013
High Street Lairg	NC584632	village	02/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Portgower	ND010134	roadside	07/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Invercassley House Rosehall	NC474154	parkland	28/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
North Brora	NC909044	bungalows	19/06/2015
Dalchalm	NC911594	hamlet	19/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Ord Place Lairg	NC580589	council houses	10/05/2015
Navidale Road Helmsdale	ND032155	village	09/05/2015
Culnara	NH625921	hamlet	08/05/2015
Achness Hotel Rosehall	NC473249	hamlet	12/05/2015
Kinbrace	NC862317	hamlet	09/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Lairg	NC581685	council houses	10/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Pittentrail	NC726194	village	10/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Marrel	ND016173	hamlet	14/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Berberis glaucocarpa Stapf *Great Barberrry*

• n 5

A large, semi-evergreen shrub notable for its profusion of blue-black berries heavily covered with a white bloom. Flowers in racemes with a common peduncle, the flowers are yellow (not orange) and the leaves are larger (2.5-8cm) which distinguish the plant from the much common *B. darwinii*.

Berberis wilsoniae Hemsl. *Mrs Wilson's Barberry* ● n 5

A deciduous bush with minutely pubescent stems and 3-partite spines.

Berberis aggregata C.K. Schneid. *Clustered Barberry* ● n 5

A dense, deciduous bush with toothed leaves (not entire; cf. *B. wilsoniae* and *B. thunbergii*) typically less than 1.5m tall.

Berberis gagnepainii C.K. Schneid. *Gagnepain's Barberry* ● n 5

A big, thorny plant, told from *B. julianae* by its round twigs, lacking raised ridges and its fruit with a sessile stigma. Narrow, undulate leaves with 3 or more spines on each edge.

Golspie S	NC824997	village	09/05/2015
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Berberis julianae C.K. Schneid. *Chinese Barberry* ● n 5

A tall (to 3m) big-leaved evergreen species (leaves > 3cm, with 3 or more spiny teeth on each edge) with massive spines, told from *B. gagnepainii* by the fruit, which has a distinct style (not a sessile stigma) and by the ridged (not round) twigs. Commonly planted in landscaping schemes to deter incomers.

Dornoch The Meadows	NH799893	suburbia	10/04/2010
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Berberis buxifolia Lam. *Box-leaved Barberry* ● n 4

The small dark green leaves are obovate, with flat (not revolute) margins.

Berberis darwinii Hook. *Darwin's Barberry* ● n 3

Dark, glossy, neat, 3-toothed evergreen leaves 1-3cm, and very early, bright orange flowers. The spines (< 1cm) are shorter than in *B. glaucocarpa* (1-3cm). Seeding freely in walls, paving cracks and on waste ground in towns and villages. Produces huge quantities of bird-dispersed fruits.

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Golspie Station	NH825997	railway	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011

Clynelish Distillery Brora	NC896054	waste ground	08/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
North Brae Brora	NC906040	terrace	08/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
N Helmsdale	ND026156	village	08/05/2011
The Bridge Hotel Helmsdale	ND026154	street	08/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Stittenham Road Helmsdale	ND026155	walled gardens	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Big Burn Bridge Golspie	NC840005	stonework	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Gruids	NC566039	hamlet	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Station Terrace Brora	NC906409	terrace	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Embo	NH817928	village	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Golspie S	NH824997	village	09/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	09/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Rosehall	NC470021	village	10/05/2015
Navidale Road Helmsdale	ND032155	village	09/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Camore Crescent Camore	NH777903	council houses	08/05/2015
Doll	NC884328	hamlet	11/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Badfluich Rosehall	NC495049	hamlet	10/05/2015
Golspie	NC832000	village	08/05/2015
Pittentrail	NC726194	village	10/05/2015
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
West Clyne	NC905640	hamlet	14/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Achrimsdale	NC910674	hamlet	14/05/2015
Marrel	ND016173	hamlet	14/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
High Croft Hilton of Embo	NH805915	hamlet	11/06/2015
Meikle Ferry	NH729870	roadside	12/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Tarvie Cottage Balvraid	NH760951	hamlet	17/05/2015
Lednabirithen	NH769920	hamlet	17/05/2015
Achinduich	NC580000	hamlet	12/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Sallachy	NC548852	hamlet	13/05/2015

Berberis x stenophylla Lindl. *Hedge Barberry*

• n 4 ↑

One of the most popular garden shrubs whose long, arching branches are wreathed in yellow flowers in April. Dark green, narrow, needle-like leaves with revolute margins, and flowers in bundles without a common peduncle.

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Tomich	NC610049	hamlet	13/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Brora Harbour	NC909037	village	12/05/2011
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Stafford Road Dornoch	NH801899	council houses	10/07/2013
North Brora	NC909044	bungalows	19/06/2015
Lower Brora	NC908037	bungalows	11/05/2015
Sutherland Street Helmsdale	ND028153	village	09/05/2015
Golspie S	NC824997	village	09/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Kinbrace	NC862317	hamlet	16/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

Mahonia aquifolium (Pursh) Nutt. *Oregon-grape*

• n 1

Berberis aquifolium Pursh

A common garden plant found in hedge-bottoms and on waste ground in towns and villages throughout. Planted on many of the larger estates as pheasant cover, and thoroughly naturalized in plantation woodlands and shrubberies.

Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012

RANUNCULACEAE

Caltha palustris L. *Marsh-marigold*

hel 3

River-sides, ditches, wet meadows, marshes and mires. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68
NH69 NH78 NH79 NH89

Glaslochan Links N Brora	NC912060	stream	11/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Carbisdale Castle	NH576958	flood meadow	12/07/2010
Carbisdale Castle	NH576958	riverbank	12/07/2010
Achnairn Shinness	NC555128	hamlet	13/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Rhilochan	NC743071	roadside	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
Lothmore gravel pit	NC970106	pond	12/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Spinningdale	NH674896	woodland	10/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011

Royal Dornoch Golf Course	NH805895	links	14/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
Fhearna Boathouse	NC746331	lake shore	20/06/2011
Green Loch	NC719399	molinia stream	22/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Coul Links	NH801949	sand dunes	23/06/2011
Embo dune slacks	NH816931	dune slacks	23/06/2011
Ballinreach	NC932083	swamp	23/06/2011
Shinness Lodge	NC539141	estate	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Dornoch Stream	NH803889	streamside	20/05/2012
Royal Dornoch Golf quarry	NH806895	quarry	20/05/2012
R. Oykel N Bank	NC359018	riverbank	19/05/2012
R. Oykel N Bank Craggie	NC337048	riverbank	19/05/2012
R. Oykel below L.Aish	NC312096	riverbank	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Strath Carnaig W edge	NH716982	birch wood	18/05/2012
Embo dune slacks	NH815933	dune slacks	18/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Shin Creek Achany	NC574001	woodland	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Crofters' Memorial	ND013154	roadside	05/05/2013
Gruids Mill	NC577033	wet woodland	06/05/2013
Glen Sletdale	NC933124	flush	01/07/2013
Arscaig Birch Wood	NC505143	birch wood	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
Embo Muir	NH802934	grassland	04/07/2013
Witches Pool RDGC	NH800892	pond	08/07/2013

Loch Buidhe	NH657982	stony shore	09/07/2013
Bardnabeinne	NH714904	hamlet	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
etc.			

NVC: M 13, 22, 27; MG 4, 10, 13; OV 26, 29; S 3, 7, 8, 10, 12, 19, 23, 25; W 1, 5, 6

Trollius europaeus L. *Globeflower*

chh 5

Dripping cliffs in the mountains, and in damp pastures and on riverbanks at lower altitudes. Widespread but uncommon. Also grown in gardens and occasionally escaping in towns and villages.

Falls of Shin		15/07/1960	John Anthony
Ben More Assynt		15/07/1964	D.A. Ratcliffe
Ben Hee		15/07/1973	A.G. Kenneth
Meall an Fheur Loch		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
R Shin at Gruids	NC577041	15/07/1974	J.E. Kirby
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe
W slope of Ben Griam Mor	NC795398	01/07/1998	Gordon Rothero
Allt a' Chnoic Ghlais	NC380181	10/07/1998	Gordon Rothero

NC30 NC31 NC32 NC33 NC40 NC43 NC50 NC51 NC52 NC60 NC62 NC70 NC71 NC73 NC80
NC83 NC84 NC90 NH59 NH69

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Meallan Liath Mor	NC412334	craggs	13/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Coire Mhadaidh Conival	NC307203	wet rocks	10/08/2012 Gordon Rothero
Doire Dubh	NC365327	dripping cliff	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
Meall an Fheur Loch	NC362316	craggs	08/07/2013
R Evelix at Achosnich	NH729935	wooded riverbank	09/07/2013
Kinbrace	NC862317	hamlet	16/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

NVC: W3, W9; M26, M27; MG3, MG8; CG11, CG12, CG14; U14, U17

Helleborus foetidus L. *Stinking Hellebore*

• chh 3

Old woods, chiefly of beech on calcareous soils. Commonly planted in gardens and churchyards, and many of the roadside plants are certainly garden escapes. Told from *H. viridis* by leaves all on the stem (not basal) and bracts entire (not deeply divided). Most conspicuous in February when its pale, yellowish green flowers contrast with a still lifeless backdrop.

Golspie Biblical Garden	NC837001	park	11/04/2010
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Helleborus viridis L. *Green Hellebore*

• hp 2

Helleborus viridis subsp. **occidentalis** (Reut.) Schiffn.

Helleborus occidentalis Reuter

Most of the plants are garden escapes or relics of cultivation. Told from *H. orientalis* by smaller flowers (3-5cm across, not 5-7cm) and follicles fused for about one quarter of their length (not free to the base).

Helleborus niger L. *Christmas-rose*

• chh 3

Occasionally grown in churchyards, but rare as a garden outcast. Seldom surviving long in the face of herbivory from slugs and snails.

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010

Helleborus argutifolius Viv. *Corsican Hellebore*

• chh 3

Helleborus corsicus Willd., nom. nud.

Helleborus lividus Aiton subsp. *corsicus* P. Fourn., nom. nud.

Frequently planted in gardens and churchyards. This is the massive, pale yellowish-green hellebore that is occasionally found as a garden escape in woods and on waste ground and roadsides.

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Front Street Embo	NH817927	village	18/05/2012
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Clashban	NH643964	hamlet	12/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Clashmore	NH745895	hamlet	17/05/2015

Helleborus orientalis Lam. *Lenten-rose*

• chh 3

Estates, churchyards, etc., always planted but sometimes long-persistent. Hybridizes freely with other Hellebores, producing offspring of baffling complexity.

Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Big Burn Golspie E of railway	NC840007	woodland	05/05/2013
Embo	NH817928	village	08/05/2013
Ord Place Lairg	NC580589	council houses	10/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015

Eranthis hyemalis (L.) Salisb. *Winter Aconite*
Helleborus hyemalis L.

• grh 1

Churchyards, plantations, stately parks, and waste ground in villages; rare and never as a native plant.

Lairg Loch Side	NC580069	suburbia	10/04/2010
Ferry Road Golspie	NH825996	bungalows	16/05/2015

Nigella damascena L. *Love-in-a-mist*

• th 5 ↑

A classic cottage garden plant, seeding freely and found commonly on pavements, walls and waste ground in towns and villages throughout.

Cavaig North Brora	NC894041	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Braambury Road Brora	NC904048	bungalows	11/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015

Aconitum x stoerkianum Rechb. *Hybrid Monk's-hood*
Aconitum x cammarum auct. non L.

• grh 5

An occasional colonist of stream banks and waste ground near gardens. A common relic in old gardens.

Clashmore	NH747895	village	10/07/2010
Bonar Bridge Swordale	NH611915	council houses	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Embo	NH815928	village	11/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lochside	NC872355	hamlet	11/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Inchomnie	NC748062	hamlet	22/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Drumlich	NH608931	ruined croft	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011

The Terrace Lairg	NC581059	semidetached	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Navidale House Hotel	ND039158	parkland	05/05/2013
Knockarthur	NC754066	hamlet	05/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Embo	NH817928	village	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Navidale	ND034168	hamlet	01/07/2013
High Street Lairg	NC584063	village	02/07/2013
etc.			

[Consolida ajacis (L.) Schur *Larkspur*]

• th 6

Delphinium ajacis L., *Consolida ambigua* auct., non (L.) P. Ball and Heyw., *D. ambiguum* L.

Commonly cultivated as a garden annual and occasionally escaping to be found in cracks in paving in towns and villages, and on waste ground.

Anemone nemorosa* L. *Wood Anemone

grh 3

Woods, riverbanks, hedge-banks and bushy places, preferring slightly shaded places. Widespread and locally frequent in all of the cleugh birch woods, as well as in lowland mixed plantations.

NC30 NC31 NC40 NC41 NC50 NC60 NC70 NC71 NC74 NC80 NC81 NC82 NC83 NC91 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Camore Wood	NH771894	gravel pit	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Duchally Lodge	NC388166	riverbank	10/05/2011

Glen Cassley	NC455050	riverbank	10/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Loch Brora Birchwoods	NC856080	stony shore	08/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Salmon ladder	NH740980	birch wood	11/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Loch Airighe Mhor	NC680020	woodland	16/07/2011
Loch Airighe Mhor	NC690020	woodland	16/07/2011
Inchcape	NC690030	woodland	16/07/2011
Raemore Woods	NC540023	streamside	19/05/2012
Badfluich Turning	NC505015	conifer plantation	19/05/2012
Durcha	NC500023	hamlet	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Innisnabioraich	NC374011	riverbank	19/05/2012
R. Oykel N Bank Craggie	NC337048	riverbank	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Loch Aish E shore	NC318105	wet heath	19/05/2012
The Bank Rogart	NC734028	birch wood	18/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Shin Creek Achany	NC574001	woodland	16/05/2012
Achany Glen	NC570020	woodland	16/05/2012
etc.			

NVC: W 8,10,12,14,21,25

Anemone blanda Schott & Kotschy *Balkan Anemone*

• grh 4

Planted in churchyards and the grounds of larger estates. Told from *A. apennina* by lower sides of sepals glabrous.

Kinbrace	NC862317	hamlet	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015

Anemone apennina L. *Blue Anemone*

• grh 4

Planted in churchyards and the grounds of larger estates. Told from *A. blanda* by lower sides of sepals and basal leaves sparsely pubescent (not glabrous). More frequent as an escape in vc. 107.

Dornoch River Street	NH798895	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010

Anemone x hybrida Paxton *Japanese Anemone*

• grh 8

Anemone x japonica hort., non (Thunb.) Siebold and Zucc.

A very common bedding perennial, found as a garden outcast on waste ground, and self-sowing freely in pavement cracks, and banks in towns and villages. Absent from the most acid soils.

Clashmore	NH747895	village	10/07/2010
Skibo Castle	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Sleastary	NH643963	croft	09/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

Anemone coronaria L. *Anemone*

• grh 4

An uncommon relic or outcast from gardens. Very striking petals, in bright red or bright blue.

Achnairn Shinness	NC555128	hamlet	13/05/2011
Murray Road Dornoch	NH801898	council houses	17/05/2015

Pulsatilla vulgaris SMill. *Pasqueflower*
Anemone pulsatilla L.

• grh 4

A rare garden plant in vc. 107. I have not found it self-seeding.

Biblical Gardens Golspie	NC837001	botanical garden	07/09/2012
Biblical Gardens Golspie	NC837001	botanical garden	05/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
Loth Station Cottage	NC957100	hamlet	18/06/2015
Biblical Gardens Golspie	NC837001	botanical garden	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

[Hepatica nobilis Schreb. *Liverleaf*]
Anemone hepatica L.

• grh 4

An occasional garden plant, long persistent where planted in woodland and shady wild gardens. Seldom seen as a garden escape.

[Clematis vitalba L. *Traveller's-joy*]

• m 7

Woods, hedges, grassland, roadsides, quarries, railway banks, wood borders and urban waste ground on calcareous substrates. A few records from the Moray coast.

Clematis montana Buch.-Ham. ex DC. *Himalayan Clematis*

• m 8

Popular garden climber, rarely seen outside gardens.

Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Fanich	NC879377	hamlet	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Ord Place Lairg	NC580589	council houses	10/05/2015
High CroftHilton of Embo	NH805915	hamlet	11/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Academy Street Brora	NC903047	bungalows	13/06/2015
Dudgeon Drive Brora	NC902039	council houses	14/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Victoria Crescent Brora	NC907042	council houses	14/05/2015
Navidale	ND037161	hamlet	14/06/2015

Clematis tangutica (Maxim.) Korsh. *Orange-peel Clematis*

• m 8

An uncomm garden plant, rarely self sown.

Bonar Bridge NH611911 suburbia 12/07/2010
 Sutherland Street Helmsdale ND027154 waste ground 09/09/2012

Ranunculus aconitifolius 'Flore Plena' *Bachelor's Buttons*

• hp 8



A rare garden outcast on waste ground near houses.

Cassley Drive Rosehall NC470022 council houses 19/05/2012

Ranunculus acris L. *Meadow Buttercup*

hp 5

Meadows and pastures, open woodland and disturbed ground; abundant and generally distributed. Widespread and common in a range of habitats.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: M8-13, M22-28, M31, M32, M34, M38; H18; MG1-12; CG10-14; U4, U13-15, U17, U20;
 W3, W5-9, W11, W19, W20, W24

Ranunculus repens L. *Creeping Buttercup*

hs 5

Waste ground, cornfields, ditch- and river-banks, woodland rides, damp alder woods, damp grasslands, lawns, roadsides and waste ground. One of our most frequent wildflowers, locally abundant in a huge range of habitats.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 3,4; M 22,27, MG 1,4-7,9,10,13; OV 4,7,10,12,15,19-23,25,26,28-33;
 S 5,7,12,15,16,18,19,23,26,28; U 20; W 1,5,6,8,10,14,21,24

Ranunculus bulbosus L. *Bulbous Buttercup*

hs 4

Very common in dry pastures, dry banks, dunes, graveyards and lawns, preferring sunny, drier situations than *R. acris*. Frequent to abundant on calcareous soils, less common on acid soils, the first buttercup into flower in most years. Intolerant on nitrogen fertilization. Coastal and lowland habitats, occasional.

NC50 NC51 NC60 NC70 NC80 NC90 NC91 NC92 ND01 NH68 NH78 NH79 NH88 NH89

Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Kildonan Station	NC901217	railway	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Kilmore Lothmore	NC973108	improved grassland	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Wind Sock Dornoch Airfield	NH800883	sand dunes	09/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
Royal Dornoch Golf Course	NH812915	links	14/05/2011
Dornoch Links E	NH790880	dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Royal Dornoch dunes	NH803893	sand dune	20/05/2012
Royal Dornoch quarry	NH806895	quarry	20/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Crackaig Links	NC961099	sand dunes	18/06/2015
Navidale	ND037161	hamlet	14/06/2015
Dornoch Common Good	NH805885	high dunes	11/06/2015
Dornoch Common Good	NH807875	high dunes	11/06/2015
Dornoch Common Good	NH803885	damp grassland	11/06/2015
Embo Dunes	NH816932	dune slacks	11/06/2015
Dornoch Common Good	NH800882	damp grassland	11/06/2015
Park Terrace Brora	NC905040	village	13/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Marrel	ND018172	woodland	14/06/2015
Embo Dunes	NH817932	high dunes	11/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015
Marrel	ND016173	hamlet	14/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

etc.

NVC: CG 2-5; MG 1,4,5,7; OV 23; W 12

[Ranunculus sardous Crantz *Hairy Buttercup*] th 6

Waste ground and moist, clayey places, pond sides, etc.

[Ranunculus arvensis L. *Corn Buttercup*] o th 6

Rare and sporadic as a casual of waste ground and rubbish tips.

NVC: OV 9

Ranunculus auricomus L. *Goldilocks Buttercup* hs 4

Woods and hedgerows. Local and rare.

Loch Brora		15/07/1957	M. McC. Webster
Shin Falls		15/07/1960	John Anthony
Creag na h'Uidhe	NC395365	15/07/1973	A.G. Kenneth

NC33 NC40 NC50 NC71 NC80 NH59 NH78

Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Shin Woods	NH575985	woodland	16/05/2012

NVC: M 26; W 8

Ranunculus sceleratus L. *Celery-leaved Buttercup* hel 5

Muddy stream banks. Very local and rare.

Dornoch Links	NH803893	17/07/1957	John Anthony
Dornoch	NH799899	15/08/1980	J.K. Butler

NH78 NH88

NVC: A 1,20; MG 13; OV 32; S 4,12,23

[Ranunculus lingua L. *Greater Spearwort*] h 6

Lake sides, river banks, marshes, ditches on nutrient rich mud, and wet woodland; rare and decreasing, but often planted. In Easter Ross, so worth looking out for.

NVC: M 9; S 1,4,22; W 5

Ranunculus flammula L. *Lesser Spearwort* h 5
Ranunculus flammula subsp. **flammula**

Heaths, bogs and watery places, damp woodland rides, marshes and margins of ponds. Very variable. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Merkland Lodge	NC400296	hamlet	13/05/2011
Glen Cassley	NC455050	riverbank	10/05/2011
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Loch Rosail	NC717402	loch side	11/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Loch Brora Birchwoods	NC856080	stony shore	08/05/2011
Loch an Ruathair	NC871357	loch side	11/05/2011
Lothmore gravel pit	NC970105	pond	12/05/2011
E Loch Buidhe	NH673983	wet heath	13/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
Tulloch	NH613925	ditch	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Londornach	NH751938	hamlet	09/07/2011
Balvraid Wood	NH775940	plantation	09/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Oykel Bridge E	NC390000	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Cathair Thurnaig	NC390008	loch	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Ben Griam Mor W crags	NC800380	crag	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
Loch Coire na Bruaiche	NC635165	loch	16/07/2011

Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Craggie road junction	NC744075	roadside	10/09/2012
Glen Loth watershed	NC935158	roadside	09/09/2012
Alltnacaorach Loch Shin	NC506181	wet heath	08/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Loch Aish E shore	NC318105	wet heath	19/05/2012
Marians Rock Quarry	NC742013	quarry bottom	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Embo dune slacks	NH815933	dune slacks	18/05/2012
Allt a Choire Mhoir	NC915180	streamside	17/05/2012
Loist Kildonan	NC914200	railway	17/05/2012
Etc.			

NVC: A 22; M 13,22,24,27; MG 13; OV 30,31,35; S 4,8,10,12-14,19; W 1,5

Ranunculus flammula subsp. **scoticus** (E.S. Marshall) A.R. Clapham

Told by lowest leaves falling early with leaf blades absent or much reduced. Very rare.

NC43

Water crowfoots (**Ranunculus** Subgenus **Batrachium** (DC) A. Gray)

The white flowered water buttercups with hair-like (capillary) submerged leaves (in which form they often overwinter) and sometimes terrestrial summer leaves that are more obviously buttercup-like. The taxonomy of the group is now well worked out (Stace, 2010), but a complete understanding of the distributions of species within vc. 107 still requires more work.

Ranunculus hederaceus L. *Ivy-leaved Crowfoot*

hyd 6

Shallow streams, muddy borders of ponds, wet places. Widespread and frequent.

NC30 NC40 NC50 NC60 NC70 NC81 NC83 NC90 NC91 NC93 ND01 NH68 NH78 NH79 NH89

Dornoch The Meadows	NH799893	suburbia	10/04/2010
Torboll Farm N	NH750990	water	11/07/2011

NVC: A 8; OV 35

Ranunculus trichophyllus Chaix *Thread-leaved Water-crowfoot*
Ranunculus drouetii F. Schultz

hyd 3

Still shallow ponds, streams, in a range of wetland habitats. The earliest water-crowfoot to flower (March-April).

NC60 NH78 NH79 NH89

NVC: A 1,8,9,11,20; OV 35; S 23

Ranunculus peltatus Schrank *Pond Water-crowfoot*

hyd 5

Ranunculus aquatilis L. subsp. *peltatus* (Schrank) Syme

Lochans. Capillary leaves shorter than internodes, with divergent segments and less than 100 ultimate segments. Rare.

Little Rogart NC732036 23/06/1990 P. Eaglesfield

NC70

NVC: A 2,11,12,20,23; OV 32

Ranunculus fluitans Lam. *River Water-crowfoot*

hyd 6 ↓

Hard to separate from *R. penicillatus* subsp. *pseudofluitans* and *R. peltatus* (see Stace 1997 for details). Capillary leaves seldom more than 4x forked. Local and rare.

NC31 NH89

NVC: A 19; S 23

Ficaria verna subsp. **fertilis** Hudson *Lesser Celandine*

grt 3

Ranunculus ficaria subsp. *ficaria*

Acid grasslands, low heaths, damp places in woods, brook-sides, hedges, banks, open fields, damp meadows and gardens, locally dominant under trees in parks.

NC31 NC32 NC40 NC42 NC50 NC51 NC60 NC63 NC70 NC71 NC72 NC74 NC80 NC81 NC82
NC90 NC91 NC92 ND01 NH59 NH68 NH78 NH79

Helmsdale Station	ND020155	railway	06/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Main Street	NH798895	street	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Golspie Station	NH825997	railway	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora Main Street	NC905038	street	11/04/2010

Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Coill a Chnocain	NC446014	oak woodland	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
R. Oykel N Bank Lubcroy	NC359018	riverbank	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Loch Aish E shore	NC318105	wet heath	19/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Strath Carnaig birch	NH716982	birch wood	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Glen Loth	NC943118	streamside	17/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Coille Bad Mheasain	NC937132	birch wood	17/05/2012
Allt a Choire Mhoir	NC915180	streamside	17/05/2012
Loist Kildonan	NC914200	railway	17/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
etc.			

NVC: MG 1, 9; S 5; W 6, 8, 10, 12, 24, 25

Ficaria verna* subsp. *verna

grt 3

Ranunculus ficaria subsp. *bulbilifer* Lambinon

Ficaria bulbifera Holub

Occasional on waysides and plantations throughout, typically on disturbed ground. After flowering, there are fawn-coloured egg-like tubers in the leaf axils. Under-recorded but probably much less common than subsp. *fertilis* in semi-natural habitats.

ND01

Aquilegia vulgaris* L. *Columbine

• hp 5

Waste ground, roadsides, railways, hedgerows and thickets; rarely in marshes. A quintessential cottage garden plant, self-seeding freely and found on all kinds of waste ground in towns and villages. All the Sutherland plants are garden escapes, but they may form self-replacing populations some distance away from houses.

NC40 NC42 NC50 ND01 NH59

Helmsdale Station	ND020155	railway	06/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Main Street	NH798895	street	10/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Golspie Station	NH825997	railway	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Rosehall	NC470021	village	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Embo	NH817928	village	23/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011

River Street Dornoch	NH798895	bungalows	11/09/2012
Clashmore	NH747895	village	11/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Cassley Drive Roschall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Roschall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
etc.			

***Thalictrum aquilegifolium* L.** *French Meadow-rue*

• h 5

A statuesque garden plant, and a popular herbaceous perennial. Occasionally self seeding or outcast in villages and towns. The leaves are a bit like those of *Aquilegia vulgaris*.

Tower Street Golspie	NC835006	council houses	14/05/2011
Skibo Castle walled garden	NH737891	waste ground	10/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Davoch Pittentrail	NC723016	garden	10/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Golspie High Street N end	NC837002	terrace	06/07/2013
Sleastary	NH643963	croft	09/07/2013

***Thalictrum minus* L.** *Lesser Meadow-rue*

h 6

Coastal dunes and limestone rocks. Locally frequent. Told from *T. flavum* by its pendent (not stiffly erect) stamens, achenes with 8-10 (not 6) ribs, and by its rather square leaflets (not, or only a little longer than wide).

NC80 NC90 NC91 ND01 NH78 NH88 NH89

Royal Dornoch Golf Course	NH804896	sand dunes	22/09/1996
Clashmore	NH747895	village	10/07/2010
Crackaig Links	NC961098	sand dunes	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
S Embo links	NH815920	links	14/05/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Dornoch Dunes N	NH805893	sand dune	20/05/2012
Royal Dornoch Golf Club	NH803893	sand dune	20/05/2012
Dornoch Common Good	NH806873	sand dune	30/06/2013
Royal Dornoch Quarry	NH806895	crag	29/06/2014
Grange Road Dornoch	NH800896	village	29/06/2014
Dornoch Common Good	NH805883	stable dunes	29/06/2014
Embo Dunes	NH817932	high dunes	11/06/2015
Dornoch Common Good	NH805885	high dunes	11/06/2015
Crackaig Links	NC961099	sand dunes	18/06/2015
Dornoch Common Good	NH807875	high dunes	11/06/2015

NVC: CG9; U17

Thalictrum alpinum L. *Lesser Meadow-rue*

h 6



Thalicttrum alpinum Carl Farmer

Grassy and rocky places in the uplands. Inflorescence less than 15cm. Frequent on the western hills.

Ben More Assynt		15/07/1964	D.A. Ratcliffe
Carn Dearg		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe
W slope of Ben Griam Mor	NC795398	01/07/1998	Gordon Rothero
Coire na Saidhe Duibhe	NC692281	07/07/1998	Gordon Rothero
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero
Gorm Loch Mor	NC701238	18/07/1999	Gordon Rothero

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC51 NC52 NC61 NC62 NC71 NC72 NC73
NC74 NC83 NH69

Coire Gorm	NC360280	crag	13/07/2011
Doire Dubh	NC360320	crag	13/07/2011
Creag Dhubh	NC800390	crag	15/07/2011
Ben Griam Mor W crags	NC800380	crag	15/07/2011
Ben Griam Mor SW crags	NC802389	crag	15/07/2011
Cnoc na Sguaipe Strath Brora	NC692103	wet heath	07/07/2013
Meall Achadh na Luachred	NC677108	wet heath	07/07/2013
Cnoc Blar an Dubhaidh	NC719112	dry heath	07/07/2013

Meall an Fheur Loch	NC362316	crag	08/07/2013
Coire na Saidhe Duibhe	NC695282	crag	12/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013
Carnegie Rd Sidhean Mor	NH637981	wet heath	25/06/2014
Beinn a' Mhadaidh IS slope	NC768409	wet heath	18/06/2015

NVC: CG10-14; U14, U15, U17; M8, M10-12, M31, M32, M37

PLATANACEAE

Platanus x hispanica Mill. ex Münchh. *London Plane* ● mm 5
Platanus x hybrida Brot.
Platanus x acerifolia (Aiton) Willd.

Planted in parks and plantations, typically as single trees; at maturity, it makes a superb specimen tree. Seldom regenerating from seed in vc. 107.

Carnegie Woodland Skibo Castle	NH732892	parkland	09/05/2011
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BUXACEAE

Buxus sempervirens L. *Box* ● m 4

Commonly grown in gardens as an edging plant or as a free-standing shrub. Occasional as an outcast or an escape in towns and villages.

Helmsdale Station	ND020155	railway	06/04/2010
Lairg site of former Sutherland Hotel	NC582063	waste ground	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Morvich	NC753007	hamlet	11/07/2011
East Clyne	NC896062	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Greenwood Cottages E Rosehall	NC481017	hamlet	19/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Ospisdale	NH712897	hamlet	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Brae Cottage Srath Carnaig	NH703987	hamlet	12/05/2015
Achinnearin	NC900231	hamlet	09/05/2015
Kinbrace	NC862317	hamlet	16/06/2015
Fuaran Ruairidh Badninish	NH763942	hamlet	17/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Smithy Cottage Balvraid	NH771954	hamlet	17/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Pachysandra terminalis Siebold and Zucc. *Carpenter Box* ● n 4

Commonly planted as ground cover in landscaping schemes, parkland and larger gardens.

Lower Brora NC908037 bungalows 11/05/2015

GUNNERACEAE

Gunnera tinctoria (Molina) Mirb. *Giant-rhubarb* ● h 5
 Panke tinctoria Molina
 Gunnera chilensis Lam.

Planted by water in parkland and larger gardens. This is the less giant of the two Giant-rhubarbs. Told from *G. manicata* by its smaller leaves (less than 2m across with petiole less than 1.5m) that are cordate (not peltate) at the base and by its long, thin inflorescence (> 4 times as long as wide). The spines on the petioles are pale straw-coloured (not red).

Braefoot Portgower	ND010135	cottages	11/07/2010
Skibo Castle	NH736890	gardens	09/05/2011
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Dalchork	NC573105	parkland	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Kildonan Lodge	NC904223	parkland	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
West Shinness Lodge	NC530151	hamlet	08/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Portgower	ND010135	hamlet	07/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Bridge Golspie Big Burn	NC840005	woodland	10/05/2015
Overscaig Hotel Loch Shin	NC417232	hamlet	13/05/2015
The Crask Inn	NC523246	hamlet	13/05/2015

Gunnera manicata Linden ex André *Brazilian Giant-rhubarb* ● h 5

Planted by water in parkland and larger gardens. Told from *G. tinctoria* by its larger leaves (often more than 2m across with petioles 1.5-2.5m long), dumpier inflorescence, and petioles with reddish spines.

Skibo Castle S aspect	NH736890	parkland	09/05/2011
Dunrobin Castle	NC850007	parkland	17/05/2012

PAEONIACEAE

The key distinction in identifying peonies is between the tree peonies derived from *P. suffruticosa* and *P. delavayi*, and the herbaceous perennials derived from *P. officinalis* and *P. lactiflora*. All of them produce viable seeds, but plants take 4 or 5 years to reach flowering size, during which time they are likely to succumb to frosts or to slugs. They resent disturbance, and do not transplant well as root-stocks.

[***Paeonia mascula*** (L.) Mill. *Peony*]
Paeonia officinalis L. var. *mascula* L.
Paeonia corallina Retz.

• h 4

The old peony records are unreliable, because plants tended all to be recorded as *P. mascula* whatever their true identity (see below).

Paeonia officinalis L. *Garden Peony*

• h 4

Common and persistent as garden throw-outs (living up to 50 years) on rough ground in towns and villages.

Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Lochside	NC872355	hamlet	11/05/2011
Dalchalm	NC909056	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Embo	NH817928	village	23/06/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012

Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Birch Cottage Rogart	NC734029	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Briarhill Achue	NH682897	hamlet	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Braefoot Portgower	ND010135	hamlet	05/05/2013
Main Street Brora	NC903039	street	07/05/2013
Embo	NH817928	village	08/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
High Street Lairg	NC584063	village	02/07/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Achosnich	NH726939	croft	09/07/2013
Sleastery	NH643963	croft	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH899	bungalows	13/07/2013
etc.			

[*Paeonia suffruticosa* Andrews *Tree Peony*]

• n 4

More frost sensitive and wind-prone than *P. officinalis*, tree peonies are found much less frequently as garden escapes or throw-outs in the north.

GROSSULARIACEAE

Ribes rubrum L. *Red Currant*

n 4

Ribes sylvestre (Lam.) Mert. & Koch

Moist woodlands, thickets, borders of shady streams on nutrient-rich soils, rarely epiphytic on pollarded willows. The leaves are *not* fragrant when crushed. All of the plants are garden escapes, commonly bird-sown.

NC40 NC50 NC70 NC80 ND01 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Rosehall	NC470021	village	12/07/2010
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Spinningdale	NH674896	woodland	10/05/2011

Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Lairg	NC581068	council houses	10/05/2015
Kyloag	NH660911	hamlet	08/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Kinbrace	NC862317	hamlet	16/06/2015

Ribes spicatum E. Robson *Downy Currant*

n 4

Native in upland woods on limestone, but our plants are escapes. Told from *R. rubrum* by the unseparated anther lobes and the cup-shaped (not saucer-shaped) hypanthium.

NC92 NH59

Ribes nigrum L. *Black Currant*

• n 4

Damp woods on nutrient-rich soils, hedges, stream-sides and thickets in moist shady situations; local and in small quantity. Foliage smells strongly of currants when crushed (unlike the scentless *R. rubrum*). Naturalized and bird-sown from gardens.

NC40 NC50 NC81 NH59 NH79 NH89

Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Maikle Kyle of Sutherland	NH595936	woodland	12/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Whiteface	NH708893	roadside	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Linsidemore	NH540990	woodland	12/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Gruids Mill	NC577033	wet woodland	06/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013

Ribes sanguineum Pursh *Flowering Currant*

• n 4

Towns and villages throughout; commonest in the lowlands. A very common plant of shrubberies; its pinky red flowers are a common sight in early spring in villages, towns, and on walls and waste ground.

NC60

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010

Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora Station	NC906041	railway	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Rhivaig Overskibo	NH724895	hamlet	07/05/2011
Astle	NH745919	hamlet	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Briar Cottage Doll	NC883032	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
West Merkland	NC384329	hamlet	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
East Clyde	NC896062	hamlet	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012

Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Briarhill Achue	NH682897	hamlet	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Pittentrail	NC726019	village	04/05/2013
Backies Curling Pond	NC839012	woodland	05/05/2013
Helmsdale	ND026154	village	05/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Crofters' Memorial	ND013154	roadside	05/05/2013
Gartymore	ND014147	hamlet	05/05/2013
Brora Heritage Centre	NC897042	park	05/05/2013
Brora Industrial Estate	NC905041	waste ground	07/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Brora Station	NC906041	railway	07/05/2013
Old Road Bridge Brora	NC906039	stonework	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Skelbo Castle	NH792951	ruins	08/05/2013
Skelbo Castle Cottage	NH793952	hamlet	08/05/2013
Embo	NH817928	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Ross Terrace Brora	NC905038	railway	01/07/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Bardnabeinne	NH714904	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

[Ribes alpinum L. Mountain Currant]

• n 3

Shady places on rocks or cliffs as a garden escape. Native in the Peak District of the Pennines.

Ribes uva-crispa L. Gooseberry

• n 3

Ribes grossularia L.

Grossularia uva-crispa (L.) Miller subsp. reclinata (L.) Dostál

Hedges, thickets and woods; sparingly scattered through the lowlands. Potentially native plants are typically indistinguishable from bird-sown garden escapes. Long persistent on waste ground and in hedgerows as a garden outcast.

NC50 NC60 NC70 NC80 NC91 NH59 NH68 NH69 NH78 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch Cathedral	NH797897	churcyard	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Brora SW	NC901038	waste ground	11/04/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
N Helmsdale	ND026156	village	08/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Drumliah	NH608931	ruined croft	09/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Torboll Farm S	NH750980	woodland	11/07/2011
Opposite Achnagart	NH540980	woodland	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
back of dunes Brora	NC909036	sand dunes	09/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Helmsdale Station	ND023154	railway	05/05/2013
Main Street Brora	NC903039	street	07/05/2013
Skelbo Castle	NH792951	ruins	08/05/2013
Skelbo Castle Cottage	NH793952	hamlet	08/05/2013
Embo	NH817928	village	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Bridge Golspie Big Burn	NC840005	woodland	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
Doll	NC881027	hamlet	11/05/2015
Golspie Big Burn	NC841006	woodland	11/05/2015

Fanich	NC879037	hamlet	11/05/2015
Pittentrail	NC726019	village	10/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

SAXIFRAGACEAE

Astilbe japonica (C. Morren and Decne.) A. Gray *False-buck's-beard* • hp 6

A rare escape from gardens. See *Aruncus dioicus* (Rosaceae) for identification.

Astilbe x arendsii • hp 6

A rare escape from gardens. Told from *A. japonica* by longer petals (more than double the sepals) and shaggy brown hairs on the mid stems.

Brora	NC910041	suburbia	11/07/2010
Rosehall	NC470021	village	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Biblical Gardens Golspie	NC837154	garden	05/07/2013
School Road Dornoch	NH790898	suburbia	17/05/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015

Bergenia crassifolia (L.) Fritsch *Elephant-ears* • hp 3
Saxifraga crassifolia L.

The commonest of the two garden escapes; sometimes long persistent. Rarely planted on graves in churchyards. It has oval (not round) leaves and tapered (cuneate not cordate) leaf bases.

Dornoch Castle Street	NH794896	suburbia	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Camore	NH778903	council houses	12/07/2010
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Astle	NH745919	hamlet	10/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Embo	NH817928	village	23/06/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012

Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Littleferry	NH806956	hamlet	07/05/2013
Main Street Brora	NC903391	street	07/05/2013
Camore	NH775903	bungalows	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
Kilvine Cottage	NC872040	hamlet	11/05/2015
Embo	NH816928	village	08/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Sallachy	NC548085	hamlet	13/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Clashmore	NH745895	hamlet	17/05/2015

Bergenia cordifolia (Haw.) Sternb. *Heart-leaved Bergenia*

• hp 3

A casual garden escape. Much less commonly seen than *B. crassifolia*. Told by its more or less orbicular leaves with cordate (not cuneate) leaf bases. The petal limb is orbicular (not ovate).

[*Darmera peltata* (Torr. ex Benth.) Voss ex Post and Kuntze *Indian-rhubarb*]

• hp 7

Saxifraga peltata Torrey ex Benth.

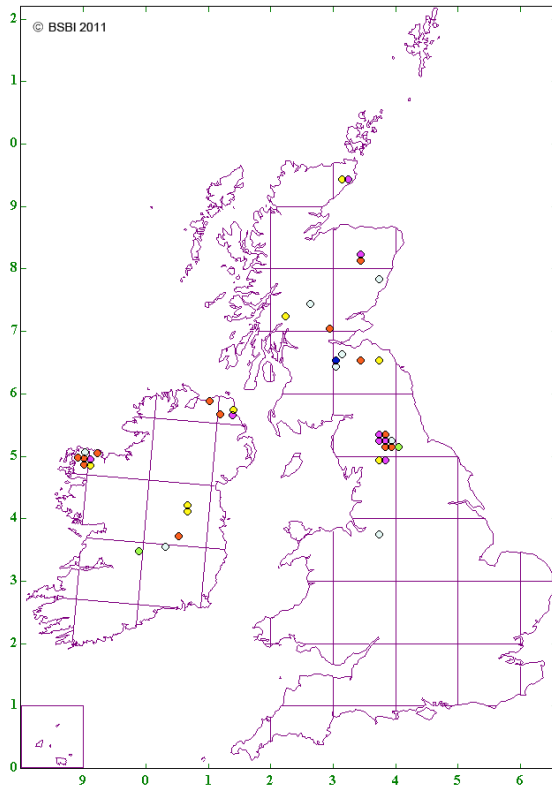
Peltiphyllum peltatum (Torrey ex Benth.) Engl., nom. illegit.

Long-persistent garden relic in damp woodland and by streams and lakes.

[*Saxifraga hirculus* L. *Marsh Saxifrage*]

hs 5

This very rare species is mentioned in the SSSI notification for Loch Truderscaig NC705323 (vc. 107), but I suspect the reference is to the Caithness populations (see below) that are found in the much larger Caithness and Sutherland Peatlands Special Area of Conservation (SAC) designated for the European habitats the Caithness and Sutherland Peatlands Special Protection Area (SPA).



The distribution of *Saxifraga hirculus* in Caithness.

Saxifraga nivalis L. *Alpine Saxifrage*

hs 5



Saxifraga nivalis alpinegardensociety

Mountain cliffs at high altitude. Very local and rare.

Ben More Assynt 15/07/1962 D.A. Ratcliffe

NC31 NC32

Coire Mhadaidh Conival NC30490 20850 rock crevice 10/08/2012 Gordon Rothero

NVC: CG12

Saxifraga stellaris L. *Starry Saxifrage*

hs 5

Wet rocks in the mountains. Locally frequent.

Ben Hee		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Meall an Fheur Loch		15/07/1973	A.G. Kenneth
Blackwater at 200ft	NC797123	30/08/1987	L. Charters det. J.K. Butler

NC31 NC32 NC33 NC42 NC43 NC52 NC62 NC63 NC72 NC83 NC91

Coire nam Mang	NC410320	wet heath	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011

Doire Dubh	NC360320	wet rocks	13/07/2011
Ben Hee	NC420320	wet rocks	13/07/2011
Doire Dubh	NC365327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Meall an Fheur Loch	NC362316	crag	08/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Coire na Saidhe Duibhe	NC689285	crag	12/07/2013
Coire na Saidhe Duibhe	NC695282	crag	12/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013
Allt Coir a' Chruiteir	NC400340	upland	29/05/2014
Allt Coir a' Chruiteir	NC400330	upland	29/05/2014
Ben Hee E flank	NC438335	crag	26/06/2014
Allt a' Choire Mhoir	NC914175	stream	20/06/2015

NVC: W20; M4, 7, 11, 12, 31-34, 38; CG12; U8, 11, 14, 18

Saxifraga x urbium D.A. Webb *London Pride*

• hr 6

A very common rockery plant in gardens, also used for edging paths and borders in dry shade. Occasionally thrown out, and found on moist shady waste ground in towns and villages. Long persistent in the shady parts of abandoned gardens. Petioles not much longer than the leaf blade.

Lairg Main Street	NC584063	street	10/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
N Helmsdale	ND026156	village	08/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Clashmore	NH747895	village	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012

Navidale House Hotel	ND039158	sea cliff	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Navidale House Hotel	ND039158	parkland	05/05/2013
Main Street Brora	NC903039	street	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Embo	NH817928	village	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
High Street Lairg	NC584063	village	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Golspie High Street N end	NC837002	terrace	06/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale	NH713898	roadside	11/07/2013
Bardnabeinne	NH714904	hamlet	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

Saxifraga x polita (Haw.) Link *False Londonpride*

hs 4

An uncommon garden escape. Petioles much longer than the leaf blade.

Saxifraga oppositifolia L. *Purple Saxifrage*

hs 3

Wet flushes and stony places in the mountains. The first upland plant into flower each year.

Carn Dearg	15/07/1973	A.G. Kenneth
Creag na h'Uidhe	15/07/1973	A.G. Kenneth
Ben Griam Mor		John Anthony

Ben More Assynt			D.A. Ratcliffe
Coire na Saidhe Duibhe	NC692281	07/07/1998	Gordon Rothero

NC31 NC32 NC33 NC52 NC62 NC83 NC84

Ben Griam Mor W crags	NC800380	crags	15/07/2011
Creag Dhubh	NC807391	crags	15/07/2011
Ben Griam Mor SW crags	NC801389	crags	15/07/2011
Coire Mhadaidh Conival	NC307203	wet rocks	10/08/2012 Gordon Rothero
Meall an Fheur Loch	NC362316	crags	08/07/2013
Coire na Saidhe Duibhe	NC689285	crags	12/07/2013
Coire na Saidhe Duibhe	NC695282	crags	12/07/2013
Creag Mhor Ben Armine	NC702238	crags	12/07/2013

NVC: W20; M11-12; CG10-14; U14, 15, 17

Saxifraga aizoides L. *Yellow Saxifrage*

hs 4

Damp stony ground and rock ledges in the uplands. Widespread and locally frequent.

Carn Dearg		15/07/1973	A.G. Kenneth
Ben Tarvie	NH746958	15/07/1975	J.E. Kirby
Torbreck		15/08/1976	M.J. Marshall
Ben More Assynt			D.A. Ratcliffe

NC31 NC32 NC33 NC40 NC41 NC43 NC52 NC60 NC61 NC62 NC70 NC71 NC74 NH59 NH79

West of Bealach Easach	NC564247	30/06/1998	Gordon Rothero
Coire Gorm	NC360280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Doire Dubh	NC365327	dripping cliff	08/09/2012
Doire Dubh	NC365326	streamside	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Doire Dubh Loch Merkland	NC365325	flushed grassland	08/07/2013
Black Water	NC719177	streamside crag	10/07/2013

NVC: M10-12, 37; W20, CG 10-14; U15, 17

[Saxifraga rivularis L. *Highland Saxifrage*]

hs 4

Wet mountain rocks, at high altitude. Found just to the south of vc107, so worth looking for on Ben More Assynt and other high ground (above 900m).

Saxifraga granulata L. *Meadow Saxifrage*

hs 4

Grassland in the lowlands. Local and rare. A useful indicator of unimproved grassland.

Golspie Tower	NC839012	28/05/1978	J.K. Butler
Golspie Golf Course	NH820990	26/06/1979	M.J. Marshall
Marian's Rock	NC748012	15/07/1980	S. Angus
Marian's Rock	NC74-01-	18/05/1982	A.M. Stirling & J. Mitchell
Marian's Rock	NC748013	21/05/1982	S. Angus & P.J. Tilbrook

NC70 NC80 NH68 NH78 NH89

Achnairn Shinness	NC555128	hamlet	13/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Marian's Rock	NC747012	cliff	13/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Big Burn car park Backies	NC837013	woodland	05/05/2013
Big Burn Golspie	NC840008	woodland	05/05/2013
Big Burn Golspie	NC840008	woodland	13/05/2013
Big Burn railway bridge	NC840007	woodland	10/05/2015
Big Burn N of railway bridge	NC840008	woodland	11/05/2015

NVC: MG3

Saxifraga hypnoides L. *Mossy Saxifrage*

chh 5

Saxifraga angustifolia Haw.

Saxifraga platypetala Smith

Rock ledges in the hills (first group of records). Also a common edging plant in gardens, occasionally found as a throw-out on tips and waste ground and rarely found self-sown in paving (see below).

Cambusmore	15/07/1962	John Anthony
Ben More Assynt	15/07/1962	D.A. Ratcliffe
Ben Uarie	15/07/1962	John Anthony

NC31 NC32 NC52 NC91 NH79

NVC: W20; M32, MG2; CG9, 11, 12, 14; U14, 15, 17

Garden relics and escapes at

Rhian Breck	NC599048	hamlet	13/05/2011
North Brae Brora	NC906040	terrace	08/05/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
High Street Lairg	NC584063	village	02/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rosehall	NC470021	village	10/05/2015
Golspie Biblical Garden	NC837001	botanical garden	11/05/2015

Saxifraga tridactylites L. *Rue-leaved Saxifrage*

th 4

Sand dunes, and on old walls, roofs and dry sandy or gravelly ground in full sun. Local and uncommon.

Dornoch	NH803893	15/06/1956	John Anthony
Golspie		15/06/1956	M. McC. Webster

NC80 NC90 NH78 NH88 NH89

NVC: OV 38,39,42

Saxifraga 'Peter Pan'

• hr 6

A very popular rockery plant in gardens, and an occasional outcast on waste ground.

Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Achnairn Shinness	NC555128	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Uppat Place Brora	NC903034	council houses	17/05/2012
Gruids	NC566039	hamlet	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Dalphaid Glen Cassley	NC397145	croft	06/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Embo	NH817928	village	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013

Rowan Crescent Dornoch NH793899 bungalows 13/07/2013
etc.

Saxifraga paniculata Mill. *Livelong Saxifrage* ● hr 6

This is the rockery plant with lime-encrusted leaves in a dense basal rosette. The inflorescence branches are densely glandular. Very rare as a relic or self sown on old walls.

Cherry Grove Bonar Bridge NH611913 bungalows 06/09/2012
Golspie Biblical Garden NC837001 botanical garden 13/06/2015

Chrysosplenium oppositifolium L. *Opposite-leaved Golden-saxifrage* chh 4

Wet woodlands, ditches, streams and damp shady places. Widespread and locally frequent.

NC30 NC31 NC32 NC33 NC40 NC42 NC43 NC50 NC51 NC52 NC60 NC70 NC71 NC80 NC81
NC82 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH78 NH79 NH89

Linsidemore Wood	NH498998	riverbank	12/07/2010
Blarich	NC695041	stream	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
East Clyne	NC893062	stream	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle fountain cave	NH735891	stonework	10/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Achentoul Burn	NC897326	waterfall	19/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Coill a Chnocain	NC446014	oak woodland	19/05/2012
Tutim Burn	NC436017	rocky stream	19/05/2012
Loch Aish E shore	NC318105	wet heath	19/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
N Rogart	NC736032	birch wood	18/05/2012

Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Allt a Choire Mhoir	NC915180	streamside	17/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Shin Creek Achany	NC574001	woodland	16/05/2012
Achany Glen	NC570020	woodland	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Backies Curling Pond	NC839012	woodland	05/05/2013
Big Burn Golspie falls	NC840911	woodland	05/05/2013
Big Burn Golspie	NC840723	woodland	05/05/2013
Big Burn Golspie falls	NC840852	woodland	05/05/2013
Gruids Mill	NC577337	wet woodland	06/05/2013
Glen Sletdale	NC902157	stream bank	01/07/2013
Allt a'Choire Riabhaich	NC909129	wooded stream	01/07/2013
Creag a'Bhodaich Sletdale	NC911149	stream bank	01/07/2013
Creag a'Chrionaich Sletdale	NC924115	dry heath	01/07/2013
Glen Sletdale	NC927125	bracken	01/07/2013
Arscaig Birch Wood	NC505143	birch wood	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
Helmsdale	ND026152	riverbank	07/07/2013
etc.			

NVC: M 36; W 5,6,8

[*Chrysosplenium alternifolium* L. *Alternate-leaved Golden-saxifrage*]

hs 4

Vc. 107 is apparently just north of its northern limit, but worth searching for in the lowlands.

Usually growing with *C. oppositifolium* and much less common than it, but the big, Pennywort-sized, basal leaves of *C. alternifolium* are distinctive, and the edges of the inflorescence are greener (less uniformly golden coloured). The basal leaves are told from *Glechoma hederacea* by the small bristles (rather than dense hairs) on the upper leaf surface, and the indistinct veins on the underside of the leaf. The jizz of the crenate leaf margins is also distinctive (indented rather than convex).

NVC: M 36

Recorded from Easter Ross, Moray, Nairn and East Inverness.

Heuchera sanguinea* Engelm. *Coralbells

• hp 4

A very common garden plant, used for edging and in the front of herbaceous borders. Occasionally self-seeding, but more commonly seen as an outcast on waste ground where garden refuse has been dumped.

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
N Brora	NC904051	bungalows	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Bonar Bridge	NH610914	village	07/05/2011
Skibo Castle walled garden	NH737891	paths	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Embo	NH817928	village	23/06/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
High Street Lairg	NC584632	village	02/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Rosehall	NC470021	village	10/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Pittentrail	NC726019	village	10/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015

The Three Tees

Tellima has its petals fringed with long narrow lobes and has 2x as many stamens as sepals

Tolmiea has brown filiform petals and 5 stamens and 5 unequal sepals

Tiarella has many tiny white flowers (panicle not a spike), 10 stamens, alternately long and short

Tolmiea menziesii (Pursh) Torr. & A. Gray *Pick-a-back-plant*

• h 5

Tiarella menziesii Pursh

Shady old gardens and woodland near houses. Reproduced by bulbils on the leaves.

Tellima grandiflora (Pursh) Douglas ex Lindl. *Fringecups* • h 5
Mitella grandiflora Pursh

Self-seeds freely. Damp and shady places in gardens as well as in hedges and woodlands.

Shinness Lodge	NC530150	hamlet	13/05/2011
Pittentrai 1	NC726020	village	12/05/2011
Skibo Castle walled garden	NH737891	waste ground	10/05/2011
Skibo Castle S front	NH737890	parkland	11/07/2013
Kyloag	NH660911	hamlet	08/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

[**Tiarella cordifolia** L. *Foamflower*] • h 5

A ground cover plant for damp shade, but it is stoloniferous and can become invasive.

CRASSULACEAE

Crassula tillaea Lest.-Garl. *Mossy Stonecrop* th 6
Tillaea muscosa L.

A tiny red-coloured plant with leaves 1-2mm long, found in open sandy and gravelly places.

Linsidemore Wood	NH534991	roadside	12/07/2011	McIntosh, Payne, Youngman & Hannah
Dalchalm	NC909054	gravel	19/06/2015	
Kinbrace Station platform	NC862316	compacted gravel	16/06/2015	
High Croft Hilton of Embo	NH805915	hamlet	11/06/2015	
Kildonan Station approach	NC901217	compacted gravel	17/06/2015	

[**Crassula helmsii** (Kirk) Cockayne *New Zealand Pigmyweed*] • h 6
Tillaea helmsii Kirk
Tillaea recurva (J.D. Hook.) J.D. Hook.
Crassula recurva (J.D. Hook.) Ostenf., non N.E. Br.

Further south, this is a pest of ponds, reservoirs and ditches, since the early 1980s. It can be locally dominant on the water surface or on exposed mud at the water's edge, forming a raised, light green ring around the margin of a pond, while the dense under-water mat is brownish green in colour.

Recorded from Inverness and the Moray coast.

Sempervivum tectorum L. *House-leek* • chh 6

Old walls, cottage roofs. Scattered through the county in nearly every village. Traditionally grown on cottage roofs as a protection against lightning strikes. There are no data on its efficacy. Also used for the treatment of bee-stings. Possessed of one of the most bizarre of all English plant names; in Norfolk, apparently, it is known as "Welcome home husband, however drunk ye be".

I suspect that all of the garden escape and throw-out House-leeks have been recorded as *S. tectorum*, whatever they really were. Nineteen different taxa have been grown in British gardens in the last 20 years, and it seems unlikely that all of the escapes and outcasts would belong to the same taxon.

NH89

Castle Street Dornoch	NH794896	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Dalchalm	NC909056	village	12/05/2011
Castle Street Dornoch	NH795897	street	09/05/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Castle Street Dornoch	NH794897	dry stone wall	08/05/2013
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015
Invershin Station	NH579953	hamlet	12/05/2015
High Croft Hilton of Embo	NH805915	hamlet	11/06/2015

Sedum rosea (L.) Scop. *Roseroot*

Rhodiola rosea L.

Sedum rhodiola DC., nom. illegit.

• hp 5

Cliffs on the mountains. Local on high ground, mostly in the west.

Ben Uarie	NC920160	15/07/1962	John Anthony
Ben Griam Mor		15/07/1962	John Anthony
Ben More Assynt		15/07/1962	D.A. Ratcliffe
Carn Dearg		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe
Coire na Saidhe Duibhe	NC692281	07/07/1998	Gordon Rothero
Gorm Loch Mor	NC701238	18/07/1999	Gordon Rothero

NC31 NC32 NC33 NC43 NC52 NC62 NC63 NC72 NC83 NC84 NC91 NH89

Meallan Liath Mor	NC400320	composite	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Ben Griam Mor SW crags	NC802389	crags	15/07/2011
Creag Dhubh	NC800390	composite	15/07/2011
Ben Griam Mor W crags	NC800380	crags	15/07/2011
Ben Griam Mor SW crags	NC802389	crags	15/07/2011
Doire Dubh	NC365327	dripping cliff	08/09/2012
Doire Dubh	NC365326	streamside	08/09/2012
Doire Dubh	NC368324	dripping cliff	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012

Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Doire Dubh Loch Merkland	NC365326	craggs	08/07/2013
Meall an Fheur Loch	NC362316	craggs	08/07/2013
Coire na Saidhe Duibhe	NC689285	craggs	12/07/2013
Coire na Saidhe Duibhe	NC695282	craggs	12/07/2013
Creag Mhor Ben Armine	NC702238	craggs	12/07/2013

Also as a garden escape in the lowlands, but uncommon as such.

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
N Brora	NC904051	bungalows	12/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011
Skibo Castle S fountain cave	NH735891	stonework	10/05/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
Embo	NH817928	village	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Clynelish Brora	NC902053	hamlet	10/07/2013
West Helmsdale	ND020157	hamlet	27/06/2014
Rosehall	NC470021	village	10/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015

Sedum spectabile Boreau *Butterfly Stonecrop*
Hylotelephium spectabile (Boreau) H. Ohba

• hp 8

One of the commonest late-flowering cottage garden plants, and a magnet for butterflies. In every village; often outcast, but rarely self-sown.

Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Clashmore	NH747895	village	10/07/2010
Rosehall	NC470021	village	12/07/2010
Brora Harbour	NC909037	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
North Street Dornoch	NH797897	terrace	09/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Clashmore	NH747895	village	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012

Seaforth Road Golspie	NH829999	council houses	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Briarhill Achue	NH682897	hamlet	16/05/2012
Embo	NH817928	village	08/05/2013
Clashmore	NH747895	village	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Hilton	NH804915	hamlet	04/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rosehall	NC470021	village	10/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Sallachy	NC548085	hamlet	13/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Sedum telephium L. *Orpine*

hp 7 †

Dry ancient woodland, hedge-banks, railway-banks, and roadsides, chiefly on sandy soil; local and rare in woods at Dunrobin Castle. No recent records.

NC80

Sedum kamschaticum Mast. *Kamchatka Stonecrop*

● chh 6

Increasingly found as a garden escape on walls and paving in towns and villages. Rare in graveyards. Yellow-flowered. The hairless, flat, fleshy leaves are 35mm x 15mm and are toothed towards the blunt apex.

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Wester Drumliah	NH607934	hamlet	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Hilton	NH804915	hamlet	04/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Lonemore	NH764884	hamlet	17/05/2015

Sedum spurium M. Bieb. *Caucasian-stonecrop*

● chh 7

Sedum stoloniferum auct., non S. Gmelin
Asterosedum spurium (M. Bieb.) Grulich

Walls and damp, shady waste ground. An occasional escape, planted on walls in most of our villages.

Helmsdale Main Street	ND027153	street	06/04/2010
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Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Camore	NH778903	council houses	12/07/2010
Muie	NC669044	hamlet	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Portgower	ND010135	hamlet	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Duke Street Golspie	NC838001	old walls	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Helmsdale	ND026154	village	05/05/2013
Rosehall	NC470020	village	06/05/2013
Main Street Brora	NC903039	street	07/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Clynelish Brora	NC902053	hamlet	10/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Invershin Station	NH579953	hamlet	12/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Lairg	NC581068	council houses	10/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Pittentrail	NC726019	village	10/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Muie	NC669044	hamlet	12/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Increasingly found as a garden escape on walls and paving in towns and villages. This is the commonest white-leaved species in gardens. *Sedum spathulifolium* 'Cape Blanco' was found at Swordale Crescent in Bonar Bridge [NH611915] on a council house estate on 10/07/2010.

Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
North Street Dornoch	NH797897	terrace	09/07/2011
Main Street Brora	NC903039	street	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

Sedum rupestre* L. *Reflexed Stonecrop

• chh 6

Sedum reflexum L.

Petrosedum rupestre (L.) Velayos

Petrosedum rupestre (L.) Velayos subsp. *reflexum* (L.) Velayos

The commonest alien stonecrop of old walls, asbestos roofs, graves, dry banks and dry waste ground.

Dornoch Academy	NH789899	roadside	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Camore	NH778903	council houses	12/07/2010
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
East Clyne	NC896062	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015

Pittentrail	NC726019	village	10/05/2015
Lairg	NC579068	bungalows	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
High Croft Hilton of Embo	NH805915	hamlet	11/06/2015
Clashmore	NH745895	hamlet	17/05/2015

Sedum fosterianum Sm. *Rock Stonecrop*

• chh 6

A rare introduction with us.

NC50 NC81 NH59

Sedum acre L. *Biting Stonecrop*

chh 6

Dunes, shingle beaches, dry heathy places, waste ground, wall tops, dry calcareous or sandy soil, gravel grave-tops in churchyards, and cinder tracks by railways, etc. Locally common in coastal and lowland areas, but absent from large tracts of the county.

Strathstevan NC880013 15/07/1975 J.E. Kirby

NC70 NC80 NC90 NC91 NC92 ND01 NH68 NH78 NH79 NH88 NH89

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
East Brora	NC904046	suburbia	11/07/2010
Invershin Station	NH580953	railway	12/07/2010
Marians Rock	NC747012	cliff	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Littleferry Dunes	NH807957	sand dunes	08/05/2011
Burghfield Hotel Dornoch	NH796898	abandoned garden	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Dornoch Dunes N	NH805893	sand dune	20/05/2012
Royal Dornoch Golf Club	NH803893	sand dune	20/05/2012
Royal Dornoch quarry	NH806895	quarry	20/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Culgow House	NC976119	parkland	17/05/2012

Bonar Bridge	NH610915	street	16/05/2012
High Street Golspie	NH830997	village	05/05/2013
Main Street Brora	NC903039	street	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Embo	NH817928	village	08/05/2013
Clashmore	NH747895	village	08/05/2013
Ross Terrace Brora	NC905038	railway	01/07/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
North Street Dornoch	NH797897	roof gutters	05/07/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Golspie High Street N end	NC837002	terrace	06/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Royal Dornoch Quarry	NH806895	crag	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Dalchalm	NC911059	hamlet	19/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Marrel	ND016173	hamlet	14/06/2015

NVC: CG 2; OV 27,39,41,42; U 1

Sedum album L. *White Stonecrop*
Sedum micranthum Touss. Bast.

o chh 6

Old walls in villages, dry waste ground and concrete standings.

Bonar Bridge	NH610916	18/07/1979	M. McC. Webster
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NC50 NC60 NC90 NH69

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
East Brora	NC904046	suburbia	11/07/2010
Camore	NH778903	council houses	12/07/2010
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Brora Bridge	NC905039	village	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012

Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Loch Front Lairg	NC581062	loch shore	02/07/2013
High Street Lairg	NC584063	village	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Glashbaie North Brora	NC903053	derelict building	05/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Lochside Achentoul Lodge	NC872355	hamlet	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015

NVC: U 1

Sedum anglicum Huds. *English Stonecrop*

chh 6

A coastal species with us, on cliffs and shingle. Local and rare.

NC50 NC80 NC90

NVC: MC5, 8,-10; OV33, 34

HALORAGACEAE

Myriophyllum spicatum L. *Spiked Water-milfoil*

hyd 6

Streams, ditches and ponds, in base-rich water. Told from *M. alterniflorum* by its whorled (not opposite or alternate) leaves, and by its reddish, spike-like emergent flower stalks. Local and uncommon.

NC31 NC40

NVC: A2, 5, 6, 8, 11-13, 15, 16, 18, 19, 21; S13

Myriophyllum alterniflorum DC. *Alternate Water-milfoil*

hyd 6

Streams, ditches and ponds in base-poor water. The upper flowers are not in whorls (as they are in *M. spicatum*) but are opposite or alternate, and the leaves have many more segments (13-38 compared with 6-18). Widespread and locally frequent.

Carn Dearg		15/07/1973	A.G. Kenneth
R Brora at Grumby Rock	NC708107	15/07/1976	J.E. Kirby
Loch Muidhe		15/07/1976	M.J. Marshall
Loch an Alltan Fhearna	NC750331	07/07/1998	Gordon Rothero

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC91 ND01 NH59 NH68 NH69
NH78 NH79

Fhearna Boathouse	NC746331	lake shore	20/06/2011
Rimsdale Burn	NC739398	stream	22/06/2011
N of Green Loch	NC720400	lochan	22/06/2011
Oykel Bridge E	NC390000	composite	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Cathair Thurnaig	NC390008	lochan	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC860400	wet heath	15/07/2011
Ben Griam Beg E side	NC870400	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Allt Dail Bhaich watershed	NC884202	lochan	20/06/2015
Allt an Tireidh	NC442322	wet heath	26/06/2014
un-named lochan	NC650006	lochan	25/06/2014
Cnoc an Laith-bhaid Mhoir	NC765284	wet heath	15/06/2015
S of Forsinard lochans	NC869419	wet heath	15/06/2015
Achrimsdale Fank Borrobol	NC794260	wet heath	15/06/2015
Loch Achnamoine Helmsdale	NC811326	loch side	16/06/2015
Allt Lon a' Chuil	NC735448	wet heath	16/06/2015

NVC: A7, 9,11,13,14,18,19,22-28; S8, 19

VITACEAE

Vitis vinifera L. *Grape-vine*

• m 5

An uncommon garden plant in the coastal lowlands. More commonly grown in greenhouses and conservatories.

Biblical Gardens Golspie	NC837001	garden	05/07/2013
Ospisdale House	NH713897	parkland	11/07/2013

Vitis coignetiae Pulliat *GLarge-leaved Grape-vine*

• m 5

A garden climber with enormous leaves, grown for its superb autumn colours. Rare with us.

Golspie Biblical Garden NC837001 botanical garden 13/06/2015

Parthenocissus henryana (Hemsl.) Graebn. ex Diels & Gilg *Chinese Virginia-creeper* ● m 5

Rare on walls and fences. Always planted with us.

Invercassley House Rosehall NC474015 parkland 28/06/2014

Parthenocissus quinquefolia (L.) Planch. *Virginia-creeper* ● m 5

Occasional on walls and fences, and in hedgerows. Always planted with us.

River Street Dornoch NH798895 bungalows 11/09/2012

Millicent Avenue Golspie NH828998 council houses 07/09/2012

Parthenocissus tricuspidata (Siebold & Zucc.) Planch. *Boston-ivy* ● m 5

Occasional on walls and fences, and in hedgerows. Not self-sowing.

Struie Road Dornoch NH800895 suburbia 11/09/2012

Lairg Road Bonar Bridge NH609917 riverbank 06/09/2012

Ospisdale House NH713897 parkland 11/07/2013

Clashmore NH745895 hamlet 17/05/2015

FABACEAE

Robinia pseudoacacia L. *False-acacia* ● mm 6

Plantations and hedges in small quantity. Suckering freely to produce large thickets around planted individuals. In Central Europe it is a pernicious invader, and can be a major conservation problem in woodlands, taking over completely from the native trees and forming an entire canopy and shrub layer. *R. pseudoacacia* 'Frisia' with golden foliage is uncommon in parks and gardens in the lowlands. This is a rare tree in vc. 107.

Lonemore NH764884 hamlet 11/07/2010

Ospisdale House NH713897 parkland 11/07/2013

Lens culinaris Medik. *Lentil* ● th 6

A rare culinary throw-out.

Vigna radiata (L.) Wilczek *Mung-bean* ● th 6

As bean sprouts, a rare culinary throw-outs on rubbish tips.

Cicer arietinum L. *Chick Pea* ● th 6

Pisum sativum L. *Garden Pea* ● th 6

Grown occasionally as an arable crop, and volunteers and recruits from spilled seed are found from time to time throughout the arable areas of the county.

Rosehall NC470021 village 12/07/2010

Phaseolus coccineus L. *Runner Bean* • th 6

Allotments and vegetable gardens

Phaseolus vulgaris L. *French Bean*

Allotments and vegetable gardens

Galega officinalis L. *Goat's-rue* • hp 6

A cottage garden plant, sometimes grown in herbaceous borders, seldom found as an outcast on roadsides, waste ground and rubbish tips in vc. 107.

Camore NH778903 council houses 12/07/2010
High Street Lairg NC584632 village 02/07/2013

Astragalus danicus Retz. *Purple Milk-vetch* hp 5



Astragalus danicus Carl Farmer

Sandy turf and dunes . Occasional on the coast. White-flowered plants were found in sand dunes at Crackaig Links (NC 96164 09932) on 18 June 2015.

NC80 NC90 NC91 NH78 NH79 NH88 NH89

Links between Brora and Golspie 09/08/1897		Shoolbred, W.A.	NMW
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet	NH811959	sand dunes	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011

Royal Dornoch Golf Course	NH807901	links	14/05/2011
Littleferry Dunes	NH807957	sand dunes	08/05/2011
Golspie Caravan Park	NH821982	links	14/05/2011
Dornoch Dunes	NH806876	sand dunes	19/06/2011
Dornoch Airfield	NH805883	dune grassland	19/06/2011
Golspie Links	NH822983	sand dunes	23/06/2011
Littleferry	NH808957	sand dunes	23/06/2011
Embo sand dunes	NH815940	sand dunes	23/06/2011
Crackaig Links	NC958097	sand dunes	23/06/2011
Brora Links	NC912043	sand dunes	23/06/2011
Dornoch Links W	NH780880	sand dunes	14/07/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Dunes S	NH801882	sand dunes	14/07/2011
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Firth Road Bridge	NH747871	roadside	30/06/2013
Dornoch Common Good	NH805884	sand dune	30/06/2013
Dornoch Common Good	NH806881	sand dune	30/06/2013
Royal Dornoch Quarry	NH806895	crags	29/06/2014
Dornoch Common Good	NH805883	stable dunes	29/06/2014
Golspie Links Caravan Site	NH819981	roadside	12/06/2015
Dornoch Common Good	NH805885	high dunes	11/06/2015
Embo Dunes	NH816932	dune slacks	11/06/2015
Crackaig Links	NC961099	sand dunes	18/06/2015
Dornoch Common Good	NH807875	high dunes	11/06/2015
Embo Dunes	NH817932	high dunes	11/06/2015

NVC: SD 8-12

[*Astragalus glycyphyllos* L. *Wild Liquorice*]

hp 7

By roadsides and under hedges. Recorded from Easter Ross and worth looking for.

[*Onobrychis viciifolia* Scop. *Sainfoin*]

• hp 5

Roadsides, railway banks and waste ground. Much sown in wildflower mixtures (e.g. on new roads) in the 1980s, making conspicuous splashes of red in spring time. A common ingredient of wildflower mixtures used in landscaping schemes.

***Anthyllis vulneraria* L.**

Kidney Vetch

hs 6

Anthyllis vulneraria* subsp. *vulneraria

Anthyllis vulneraria L. var. *coccinea* L.

Anthyllis maritima auct., non Schweigger

Grassy places, cliffs by the sea and on basic rocks in the hills. Commonly sown in wildflower mixtures used in landscaping schemes on roadside banks, in several subspecies (see below). Widespread and frequent in the coastal lowlands. It is notable that the plant in much more abundant

in the dunes at Dornoch (where it is dominant over extensive areas) than in apparently similar dunes further north. Perhaps it is grazing sensitive?

NC51 NC61 NC70 NC73 NC83 NC90 NC91 ND01 NH68 NH69 NH78 NH79 NH88 NH89

Brora Station	NC906041	railway	11/04/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH801958	Cladonia heath	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Brora Golf Course	NC915058	links	12/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
Royal Dornoch Golf Club	NH800894	waste ground	18/06/2011
Dornoch Dunes	NH806876	sand dunes	19/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
Embo sand dunes	NH816938	sand dunes	23/06/2011
Crackaig Links	NC958097	sand dunes	23/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Brora Station	NC906041	railway track	07/05/2013
Dornoch Wind Sock	NH800883	dune slacks	30/06/2013
Dornoch Common Good	NH801882	salt marsh	30/06/2013
Dornoch Common Good	NH806875	dune slacks	30/06/2013
Dornoch Common Good	NH806873	sand dune	30/06/2013
Dornoch Common Good	NH806881	sand dune	30/06/2013
Witches Pool RDGC	NH800892	pond	08/07/2013
Academy Street Brora	NC903044	bungalows	13/06/2015
Park Terrace Brora	NC905040	village	13/06/2015
Embo Dunes	NH817932	high dunes	11/06/2015
Helmsdale Station Yard	ND023155	waste ground	17/06/2015
Dornoch Common Good	NH807875	high dunes	11/06/2015
Dornoch Common Good	NH805885	high dunes	11/06/2015
Dornoch Common Good	NH807885	fore dune	11/06/2015

NVC: CG13; U1; SD7, 8, 13, 14, 16; MC4, 5, 8-12; OV37

Anthyllis vulneraria subsp. ***polyphylla*** (DC.) Nyman
Anthyllis vulneraria L. var. *polyphylla* DC.

hs 6

Grassy places. Calyx without the red tip of subspecies *vulneraria*, lower part of the stem with spreading (not appressed or semi-appressed). Uncommon in wildflower mixtures used in landscaping new road verges.

Mill Way Brora NC905041 waste ground 27/06/2014

Anthyllis vulneraria subsp. **carpatica** (Pant.) Nyman var. **pseudovulneraria** (Sagorski) Cullen
Anthyllis carpatica Pant.

Much larger calyx than the other 2 subspecies (5-7mm wide rather than 2-4mm), and a much larger terminal leaflet relative to the lateral leaflets. On disturbed and waste ground.

Migdale Rock 15/07/1979 M. McC. Webster

NH69

Anthyllis vulneraria subsp. **lapponica** (Hyl.) Jalas hs 6

Rocky places in the uplands. Very local and apparently rare.

NH78

[Lotus tenuis Waldst. & Kit. ex Willd. *Narrow-leaved Bird's-foot-trefoil*] hp 6

Lotus glaber Mill.

Lotus corniculatus L. subsp. *tenuis* (Waldst. & Kit.) Syme

Roadsides, dry grassy places and waste ground. Found south of Inverness and worth looking for.

Lotus corniculatus L. *Common Bird's-foot-trefoil* hp 6

Pastures, roadsides, sunny banks, dunes, acid grasslands, commons and waste ground in towns, on most soils. Widespread and locally abundant. The stems are solid, but where reseeded has been carried out (e.g. on roadsides) you might find var. *sativus* which has hollow stems.

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71
 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68
 NH69 NH78 NH79 NH88 NH89

NVC: CG 2-5; MG 1,4,5,9; U 1,20; W 24; SM16, 18, 28; SD7-9, 13-19; MC3, 5, 8-12; OV27, 37

Lotus pedunculatus Cav. *Greater Bird's-foot-trefoil* hp 6

Lotus uliginosus Schk.

Marshes, brook-sides, wet meadows, damp woodland rides, marshes, damp grasslands, bogs and flushed heaths. Told from *L. corniculatus* by its hollow stems (but note that *L. corniculatus* var. *sativus* also has hollow stems), and by the acute (not obtuse) sinus between the upper 2 calyx lobes. Lowland straths and coasts. Locally frequent.

NC30 NC31 NC40 NC50 NC51 NC80 NC82 NC90 NH68 NH69 NH78 NH89

Maikle Kyle of Sutherland NH595936 tidal riverbank 12/07/2010

Braemore Grudie Burn NC543026 roadside 24/06/2014

NVC: M 13,22,27; MG 1,5,9,10; OV 26; S 3,4,7,14,18,25,26; W 1,4; SD14, 15; MC12; OV26

Ornithopus perpusillus L. *Bird's-foot*

th 5

Short acid grassland, heathy lawns, paths and dry, open heaths on acid sandy soils; locally common but absent from large areas of clay or calcareous soils. Uncommon in the coastal lowlands.

NH79

NVC: OV 1, 2, 5; U 1

[Securigera varia (L.) Lassen Crown Vetch]

• hp 6

Coronilla varia L.

A long-lived garden escape, capable of persisting in competition with perennial grasses, nettles and such like. Its pale purple flowers are borne throughout the summer until the first frosts in October or November. Recorded near Inverness so worth looking out for.

[Vicia orobus DC. Tufted Wood Bitter-vetch]

hp 6

Rocky places and scrub out of reach of grazing animals. This species is known from coastal West Sutherland, but is not known from the East Coast in northern Scotland.

Vicia cracca L. *Tufted Vetch*

hp 6

Hedges, fence-lines, roadsides and dunes. Variable in both the number and shape of its leaflets. Widespread and locally frequent.

NC30 NC40 NC50 NC51 NC60 NC70 NC71 NC73 NC74 NC80 NC82 NC83 NC84 NC90 NC91
NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Clashmore	NH747895	village	10/07/2010
Loch Migdale N shore	NH632916	loch side	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Maikle Kyle of Sutherland	NH595936	tidal riverbank	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Muie	NC669044	hamlet	13/05/2011

R Brora in Brora	NC901039	riverbank	08/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Royal Dornoch Golf Course	NH812915	links	14/05/2011
S Embo links	NH815920	links	14/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Proncy Cottage	NH771918	ditch	09/07/2011
Birichen	NH765923	roadside	09/07/2011
Drumliah	NH608931	ruined croft	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Oykel Bridge E	NC390000	riverbank	12/07/2011
Linsidemoor Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
Badnellan North Brora	NC883043	hamlet	10/09/2012
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Dornoch Stream	NH803889	streamside	20/05/2012
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Embo House	NH803920	arable	04/07/2013
Embo Muir	NH800925	lane	04/07/2013
Davochfin	NH785893	roadside	04/07/2013
Dornoch Lochans Davochfin	NH777889	lochans	04/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Backies	NC832012	ditch	06/07/2013
Helmsdale	ND033153	seaside grass	07/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013

Brora Industrial Estate	NC905041	waste ground	07/07/2013
Witches Pool RDGC	NH800892	pond	08/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Badnellan	NC885045	hamlet	10/07/2013
Rowan Crescent Dornoch etc.	NH793899	bungalows	13/07/2013

NVC: CG 2-5; M 13,22,24,27; MG 1,4,5,7,9,10; OV 26; S 18,25,26; SM18, 28; SD8, 15, 17

Vicia sylvatica L. *Wood Vetch*

hp 6

Dunes and cliffs, typically near to the sea. Very local and rare. It is not clear whether the two grid references for Ravens Rock Gorge refer to the same plant. The recent record is for an inaccessible sunny cliff about 4m above the stream.

11 km E of Oykel Bridge	NC500020	23/08/1978	M.J. Marshall
Ravens Rock Gorge	NC495007	06/07/1999	Gordon Rothero

NC40 NC50 NH79

Ravens Rock Gorge	NC498011	rocky stream	12/07/2011
Allt Cragaidh Gordonbush	NC861097	rocky stream	15/05/2015

NVC: no published data

Vicia hirsuta (L.) Gray *Hairy Tare*
Ervum hirsutum L.

th 5

Fields and waste places; hedges, bushy ground, railway-banks, sandy fields, arable fallows, woodland rides, roadsides, and waste ground. Rather uncommon but widely distributed in the coastal lowlands.

NC70 NC80 NC90 NC91 ND01 NH78 NH88 NH89

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Carnegie Golf Course	NH732872	waste ground	10/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Golspie	NH832998	sea front	08/05/2011
Dornoch Dunes Central	NH807896	sand dunes	14/07/2011
Dornoch Dunes N	NH806906	sand dunes	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012

sea front Golspie	NH832998	shingle beach	07/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Ross Terrace Brora	NC905038	railway	01/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Grudie Burn	NC552034	stream bank	24/06/2014
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Park Terrace Brora	NC905040	village	13/06/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Helmsdale Station Yard	ND023155	waste ground	17/06/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015

NVC: OV 1,4,6, 7,8

Vicia tetrasperma (L.) Schreb. *Smooth Tare*

th 5

Ervum tetraspermum L.

Arable and fallow land on acid sandy soils, wood margins, hedges, roadsides and railway banks and rough waste places. Local and rare, with no recent records.

NC80 NH59

NVC: not fully researched

Vicia sepium L. *Bush Vetch*

hp 5

Hedges, woods, banks and thickets; common and widely distributed. The white-flowered plant is very rare: found once at Proncy Cottage [NH771918] on a ditch-bank on 09/07/2011.

NC30 NC31 NC32 NC40 NC50 NC60 NC62 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82
NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Brora SW	NC901038	waste ground	11/04/2010
Clashmore	NH747895	village	10/07/2010
Rhivra Spinningdale	NH667907	roadside	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Newton Point	NH711877	coastal grassland	10/07/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Lothmore Church	NC971113	churchyard	11/07/2010
Crackaig Links	NC960100	coastal grassland	11/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Rosehall	NC470021	village	12/07/2010

Ravens Rock Gorge	NC498011	woodland	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Maikle Kyle of Sutherland	NH595936	roadside	12/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Camore	NH778903	council houses	12/07/2010
Criagan Mora Achormlarie etc.	NH701949	cleugh woods	13/07/2010

NVC: MG 1,4; OV 38; W 8,24

Vicia sativa L.

th 5

The 3 subspecies are treated separately. The native subspecies *nigra*, found in undisturbed natural habitats, is *Narrow-leaved Vetch*, the common alien is subspecies *segetalis* and the uncommon alien is subspecies *sativa*. They are distinguished as follows: subspecies *nigra* is strongly heterophyllous with upper leaves abruptly narrower than lower leaves, and its flowers are concolorous (single-coloured). The other two have bicolourous flowers (claret and blue - like West Ham United). They are distinguished by their pods: subspecies *segetalis* has smooth, shiny, black, hairless pods that are not constricted between the seeds; subspecies *sativa* has dull yellowish brown hairy pods that are slightly constricted between the seeds.

Vicia sativa subsp. **nigra** (L.) Ehrh. *Narrow-leaved Vetch*

th 5

Vicia sativa L. var. *nigra* L.

Vicia angustifolia L.

In natural habitats like grassland, dunes, dry banks, hedge-banks, and heathy ground, as well as on waste ground, bramble thicket, arable fields and sandy roadsides. Widely distributed and locally common. Known by its small leaves and concolorous (not 2-tone claret and blue), dark purple flowers.

NC60 NC70 NC80 NC82 NC90 NC91 ND01 NH59 NH69 NH79 NH89

Golspie Links	NH821979	sand dunes	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Camore	NH778903	council houses	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Muie	NC669044	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Carnegie Golf Course	NH732872	waste ground	10/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Golspie Golf Course	NH822989	links	08/05/2011

Mound Rock	NH770980	composite	11/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Royal Dornoch Golf Club	NH803893	sand dune	20/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Dornoch Firth Road Bridge	NH747863	embankment	30/06/2013
Dornoch Common Good	NH806873	sand dune	30/06/2013
Ross Avenue Dornoch	NH792897	new housing	29/06/2014
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Dalchalm	NC911059	hamlet	19/06/2015
Old Town Rock Strath Brora	NC854088	dry heath	15/05/2015
Helmsdale Station Yard	ND023155	waste ground	17/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
sea cliffs N of Helmsdale	ND035153	soft sea cliff	17/06/2015
Dornoch Common Good	NH805885	high dunes	11/06/2015
Dornoch Common Good	NH807875	high dunes	11/06/2015
Campbell Street Dornoch	NH791895	new housing	11/06/2015
Marrel	ND016173	hamlet	14/06/2015
Embo Dunes	NH817932	high dunes	11/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
opposite Marrel	ND022171	roadside	14/06/2015
Brora Industrial Estate	NC901034	grassland	14/06/2015
Muie	NC669044	hamlet	12/06/2015
Park Terrace Brora	NC905040	village	13/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Balblair Wood	NH803976	conifer plantation	12/06/2015

NVC: MG 1, 7; OV 3, 4, 19; S 18; U 1; W 24

Vicia sativa subsp. **segetalis** (Thuill.) Gaudin *Common Vetch*
Vicia segetalis Thuill.

o th 5

An alien of disturbed habitats; rare or absent in natural habitats.

Embo Dunes NH810930 28/06/1999 W. Hay & W. McCarthy

NC41 NH89

Carnegie Golf Course W	NH726871	links	10/05/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012

Muirfield Drive Brora	NC906043	council houses	07/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Ospisdale House	NH713897	parkland	11/07/2013
Lower Brora	NC908037	bungalows	11/05/2015

NVC: OV 10,23,25

Vicia sativa* subsp. *sativa

o th 5

Uncommon casual of disturbed habitats, with hairy pods, constricted between the seeds. It used to be a major component of the crop known as “Vetches and Tares” that was widely grown until the 1950s.

NC60 NC70 NC80 NC90 NC91 ND01 NH69 NH79

Vicia lathyroides* L. *Spring Vetch

th 5



Vicia lathyroides naturspaziergang.de

A local speciality of coastal sands and sunny rocks. A tiny plant of short, dry grassland and sandy places. Leaves typically without tendrils; the flowers are small (6-9mm) and solitary. It could be

confused with small *V. sativa* subsp. *nigra* on these characters, so it is important to check that the seeds are tuberculate (*V. sativa* has smooth seeds).

The Mound	15/07/1957	M. McC. Webster
Kilpheder	15/07/1962	M. McC. Webster
Strathsteven	15/07/1983	BSBI

NC70 NC71 NC80 NC91 NH69 NH79 NH89

Marian's Rock	NC7401	18/05/82 Stirling, Mr A.M., Mitchell, Mr J.
Migdale Rock	NH649908	17/05/85 Farrell, Miss L.

Carnegie Golf Course W	NH727873	salt marsh	10/05/2011
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NVC: SD7, 8, 12

Vicia faba L. *Broad Bean*

• th 5

A common field and garden crop, with volunteers often seen in the following cereal or oilseed rape crops. Seed spilled in transit in gateways and lanes produces stragglers in all the arable areas of the county. Also found as a garden escape near allotments and from culinary waste in towns and villages throughout. Leaf margins often scalloped by *Sitona* weevils.

Braefoot Portgower	ND010135	cottages	11/07/2010
Embo Street Hilton	NH796913	hamlet	10/07/2011
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
The Crask Inn	NC523246	cultivated ground	10/09/2012
Borrobol Lodge	NC871264	cultivated ground	17/06/2015

Lathyrus linifolius (Reichard) Bassler *Bitter-vetch*

hp 5

Orobis linifolius Reichard

Lathyrus tuberosus auct., non L.

Orobis tuberosus L.

Lathyrus montanus Bernh.

Dry heath, open woods, riverbanks, stream-sides, coppices, roadsides and infertile grasslands on acid soils. Its dull claret and muddy blue flowers are unmistakable. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68
NH69 NH78 NH79

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Duchally Lodge	NC388166	riverbank	10/05/2011
Glen Cassley swimming hole	NC413116	stream	10/05/2011

Glen Cassley	NC468032	riverbank	10/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Glen Loth	NC945111	dry heath	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Whiteface	NH708893	roadside	07/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Loanboadich	NH608944	grassland	18/06/2011
Maikle Wood Viewpoint	NH605948	dry heath	18/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Achentoul Burn	NC897326	waterfall	19/06/2011
vc 107 watershed	NC693308	roadside	20/06/2011
Halmadarie	NC697318	dry heath	20/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
W summit Ben Gram Mor	NC800390	gravel	21/06/2011
Ben Griam Mor W-facing	NC801389	crags	21/06/2011
Ben Griam Mor NW-facing	NC797395	crags	21/06/2011
Garbh-allt	NC784403	stream	21/06/2011
Biod Eag	NC780402	crags	21/06/2011
Rimsdale Burn	NC739398	stream	22/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Achnahuie	NC716072	ditch	22/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011
Birichen	NH765923	roadside	09/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
SW of Tuiteam	NC431000	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Mor W crags	NC800380	crags	15/07/2011
Creag Dhubh	NC801389	crags	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011

Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Craggie road junction	NC744075	roadside	10/09/2012
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Achany Glen	NC570020	woodland	16/05/2012
etc.			

NVC: MG 5; W 10; H 12, 16

Lathyrus pratensis L. *Meadow Vetchling*

hp 5

Meadows, pastures, lake-sides, hedges, banks, roadsides and waste places. Widespread and frequent.

NC30 NC40 NC50 NC51 NC60 NC70 NC71 NC74 NC80 NC82 NC83 NC84 NC90 NC91 NC92
ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Greenpark S of Helmsdale	ND019144	railway	11/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Crackaig Links	NC960100	coastal grassland	11/07/2010
Crackaig Links	NC961098	sand dunes	11/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Rosehall	NC470021	village	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Maikle Kyle of Sutherland	NH595936	roadside	12/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Strath Tirry	NC558175	wet heath	11/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Pitentrail	NC726020	village	12/05/2011
Rhilochan	NC743071	roadside	12/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Lothmore gravel pit	NC970106	pond	12/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011

Bonar Bridge C	NH610914	village	07/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
Wind Sock Dornoch Airfield	NH800883	sand dunes	09/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch Golf Course	NH812915	links	14/05/2011
S Embo links	NH815920	links	14/05/2011
Spinningdale	NH675897	waste ground	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Dornoch Airfield	NH805883	dune grassland	19/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Loch Fleet	NH780960	salt marsh	23/06/2011
Crackaig Links	NC958097	sand dunes	23/06/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Kintradwell Links	NC933085	sand dunes	23/06/2011
A9 verge at Ballinreach	NC932087	roadside	23/06/2011
etc.			

NVC: CG 2-4; M 13,22,24,27; MG 1,4,-7,9; OV 26,27; S 7,25,26; W 24; SD9, 12, 15, 17

Lathyrus sylvestris L. *Narrow-leaved Everlasting-pea*

hp 6

Woods, thickets and hedges. Very local and rare on the coast near Helmsdale. No recent records.

Ord of Caithness sea cliffs 15/07/1962 BSBI

ND01

NVC: not classified

Lathyrus latifolius L. *Broad-leaved Everlasting-pea*

• hp 5

A rather common garden escape, found in villages and towns throughout. This is the common railway-side and waste ground everlasting pea; long persistent as a garden throw-out.

NC91 NH88

Clashmore	NH747895	village	10/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Embo	NH817928	village	23/06/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Academy Street Brora	NC900044	bungalows	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012

Achrimsdale	NC909067	hamlet	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Brora Industrial Estate	NC905412	waste ground	07/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Hilton	NH804915	hamlet	04/07/2013
Rosehall	NC470222	village	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013

Lathyrus odoratus L. *Sweet Pea*

• th 6

A frequent garden plant but uncommon as a casual escape.

Clashmore	NH747895	village	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Rosehall	NC470021	village	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
N Brora	NC904051	bungalows	12/05/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Embo	NH817928	village	23/06/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Portgower	ND010135	hamlet	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Main Street Brora	NC903391	street	07/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Embo	NH817928	village	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Rosehall	NC470222	village	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

E of Lairg	NC602057	roadside	28/06/2014
Invercassley Stores Rosehall	NC470020	waste ground	28/06/2014
Spinningdale	NH677896	hamlet	24/06/2014
Rosehall	NC470021	village	10/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Gunns Plantation Knockdhu	NC593063	hamlet	10/05/2015
Embo	NH816928	village	08/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

Ononis repens L. *Common Restharrow*

hp 6

Ononis repens subsp. **repens**

Ononis repens L. subsp. *arvensis* (L.) Greuter

Sand dunes. Local and uncommon on the coast.

NH79 NH89

NVC: SD 7-19; OV 27; MC 4, 11, 12

[**Melilotus altissimus** Thuill. *Tall Melilot*]

○ hp 6

Dry waster ground; rare and sporadic. Told from the much commoner *M. officinalis* by fruits more than 5mm, typically 2-seeded and pubescent. The keel is equal to (not shorter than) the wings.

Recorded from the Moray coast.

[**Melilotus albus** Medik. *White Melilot*]

● th 7 ↓

Cinder tracks, waste places, roadsides and rubbish tips, rarely in arable fields. Local and sporadic.

Recorded from the Moray coast.

[**Melilotus officinalis** (L.) Pall. *Ribbed Melilot*]

● hs 7

Trifolium officinale L.

Melilotus arvensis Wallr., nom. illegit.

Track-sides, road verges, waste ground and rubbish tips, fields, hedge-banks, waste places, open spots in woods, railway banks, and newly turned-up soil. The leaves are fragrant from the presence of coumarin.

Recorded from the Moray coast.

[**Melilotus indicus** (L.) All. *Small Melilot*]

● th 6

Trifolium indicum L.

Waste ground, a rare casual on rubbish tips.

Recorded from the Moray coast.

Medicago lupulina L. *Black Medick*

th 4

Grassland, dunes, arable fields, waysides, wall-tops, heaths, and waste ground. Coastal and lowland straths; locally frequent.

NC80 NC90 ND01 NH68 NH69 NH78 NH79 NH88 NH89

Dornoch River Street	NH798895	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Golspie Station	NH825997	railway	11/04/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
North Brae Brora	NC906040	terrace	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Wind Sock Dornoch Airfield	NH800883	sand dunes	09/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch Golf Course	NH812915	links	14/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Golspie	NH832998	sea front	08/05/2011
Royal Dornoch car park	NH800894	waste ground	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Deans Park Dornoch	NH791896	new housing	18/06/2011
Golspie Links	NH822983	sand dunes	23/06/2011
Brora Golf Course	NC910039	club house	23/06/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
back of dunes Brora	NC909036	sand dunes	09/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Dornoch Coastguard Station	NH802892	open ground	20/05/2012

Royal Dornoch quarry NH806895 quarry 20/05/2012
etc.

NVC: CG 2-5; MG 6; OV 3,10,15,16,18-23,39,41; SM28; SD8; MC11

[Medicago sativa L.]

Two of the three common subspecies are known from the Moray coast (below) and should be looked for in vc. 107.

[Medicago sativa subsp. **falcata** (L.) Arcang. *Sickle Medick*] ● hp 6
Medicago falcata L.

Waste ground.

Recorded from the Moray coast.

[Medicago sativa subsp. **sativa** *Lucerne*] ● hp 6

Sown fields, roadsides, railway banks and waste ground.

Recorded from the Moray coast.

[Medicago polymorpha L. *Toothed Medick*] th 6

Medicago nigra (L.) Krockner

Medicago hispida Gaertner, nom. illegit.

Medicago apiculata Willd.

Medicago denticulata Willd.

Medicago polymorpha L. subsp. polycarpa (Willd.) Zarco, nom. inval.

Waste ground and cinder tracks, very rare. The commonest of the spiny-fruited casual medics.

Recorded from the Moray coast.

Trifolium repens L. *White Clover* h 6

Meadows, pastures, and waysides, heaths, fallow, lawns and waste land in a very wide range of semi-natural, man-made and disturbed habitats. Abundant everywhere, one of our commonest native plants.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2-4; M 13,22; MG 1,4-7,9-11; OV 1,3,4,8-10,12,13,15,16,19-23,25,28,30,32,33; S 19; U 1,20; W 24; SM 16-20, SD 6-19; MC 5, 8-11

Trifolium hybridum L. *Alsike Clover* ● hs 6

Trifolium hybridum subsp. **hybridum**

Roadsides, cultivated ground, fallow fields, railway banks, sown grasslands, waste ground and rubbish tips.; not infrequent and widely distributed. In small quantity unless planted; sporadic but

commonest in disturbed ground near buildings. This subspecies is the cultivated plant and has distinctive hollow stems. Restricted to lowland habitats.

Portgower 15/07/1982 J.K. Butler

NC30 NC50 NC60 NC82 NC83 NC84 NC91 ND01 NH69 NH79 NH89

NVC: OV 33

[Trifolium fragiferum L. *Strawberry Clover*] hs 7

Galearia fragifera (L.) C. Presl

Trifolium fragiferum subsp. **fragiferum**

Xerosphaera fragiferum (L.) Soják

Recorded from the Moray coast.

[Trifolium aureum Pollich *Large Trefoil*] • th 7

Recorded from the Moray coast.

[Trifolium aureum Pollich *Lesser Large Trefoil*] th 5

Chrysaspis aurea (Pollich) B.D. Greene

Recorded from the Moray coast.

Trifolium campestre Schreb. *Hop Trefoil* th 6

Coastal, in dunes, fallow fields, dry pastures, roadsides and railways. Local and uncommon.

NC90 NC91 ND01 NH78 NH79 NH88 NH89

Lonemore	NH764884	hamlet	11/07/2010
Dornoch Dunes Central	NH805895	sand dunes	14/07/2011
Dornoch Dunes N	NH807900	sand dunes	14/07/2011
Ross Terrace Brora	NC905038	railway	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Helmsdale Station Yard	ND023155	waste ground	17/06/2015

NVC: U 1; SD7, 8, 19

Trifolium dubium Sibth. *Lesser Trefoil* th 5

Trifolium filiforme auct., non L.

Meadows, pastures, on sandy and gravelly soil, dry woodland rides, dry grassland and heaths. Common in lawns and short grass. Told from non-fruiting *Medicago lupulina* by the absence of a tooth (the apiculus) in the depression at the tip of the leaflet, and by the glabrous calyx. Told from *T. micranthum* by the possession of a relatively long stalk on its terminal leaflet.

NC31 NC32 NC41 NC42 NC50 NC51 NC60 NC62 NC70 NC73 NC74 NC80 NC81 NC82 NC83
NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Carnegie Golf Course	NH733872	gorse scrub	10/07/2010
Ord of Caithness	ND057179	roadside	11/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Glaslochan Links N Brora	NC915062	blow-out sand dune	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
N Brora	NC904051	bungalows	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Kildonan Crossing Cottage	NC901216	abandoned garden	09/09/2012
Kildonan Bridge	NC902216	riverbank	09/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
Dornoch Coastguard Station	NH802892	open ground	20/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
etc.			

NVC: MG 4-7; OV 1,4,21-23; U 1

Trifolium micranthum Viv.
Trifolium filiforme L.

Slender Trefoil

th 5

Chrysopsis micrantha (Viv.) Hendrych

Lawns, short grassland on acid soils, heathy commons, tracks, dry sandy pastures, compacted gravel, and in peaty places. Probably not native in vc. 107. The terminal leaflet is sessile, and flowering is earlier (cf. *T. dubium*). If the plant keys out as this, consider the possibility that it is depauperate *T. dubium*. A key distinguishing feature is the longer flower stalks (pedicels) of *T. micranthum* and the distinctive calyx shape. It is commonest with us in newly sown lawns associated with hose-building.

Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Bonar Bridge Golf Club	NH617916	waste ground	30/06/2013
Ross Avenue Dornoch	NH792897	new housing	29/06/2014

Trifolium pratense L. *Red Clover*

hp 5

Meadows, pastures, waysides, railway banks, waste ground and woodland rides; common and generally distributed. Attacked by the weevils *Apion apricans* and *A. nigritarse*.

NC30 NC31 NC40 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71 NC72 NC73 NC74
NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88
NH89

Rosehall Church	NC485012	churchyard	10/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Carnegie Golf Course W	NH726871	links	10/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Golspie	NH832998	sea front	08/05/2011
Drumliah	NH608931	ruined croft	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Tulloch	NH613925	ditch	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Balvraid Wood	NH775940	plantation	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Inveran	NH560970	composite	12/07/2011

Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemoor Wood	NH530990	woodland	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Ach an Fhionnfhuaraidh	NC899240	grassland	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Hill of Ord Lairg	NC577055	plantation	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
R Brora at Balnacoll	NC807110	riverbank	10/09/2012
Kildonan Bridge	NC902216	riverbank	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Balblair	NH602930	woodland	16/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
etc.			

NVC: CG 2-5; M 13,22,24; MG 1,4-7,9,10; OV 9,10,15,18,21-25,33; SD8, 14-16

Trifolium medium L. *Zigzag Clover*

hp 6

Hedge-banks, rough borders of meadows, woodland rides, roadsides and railway banks; local and rather rare. It can only be distinguished reliably from *T. pratense* by the tips of the stipules. In *T. medium* they are green and linear lanceolate, rather like the blade of a Roman sword, but the stipule-tips are brown and bristle-like in *T. pratense*. Of course, you might prefer to count the chromosomes ($2n = 14$ in *T. pratense*, $2n = 80$ in *T. medium*); sorry, only joking. The possession of an extended bare peduncle between the flower head and the uppermost bracts is *not* a reliable character. Restricted to the lowlands; nowhere common.

NC40 NC50 NC80 ND01 NH68 NH69 NH78 NH79

NVC: MG 3; CG 8

[Trifolium striatum L. *Knotted Clover*]

th 5

Dry open turf in grasslands and commons on gravelly or sandy soils; local and rare. The leaves are hairy on their upper surface, and the veins are straight all the way to the leaf edge. The calyx is white-hairy, with 10 green veins.

Recorded from the Moray coast.

Trifolium arvense L. *Hare's-foot Clover*

th 6 †

Sandy fields, commons and heaths, dry banks, cinder tracks and waste places on acid soils. Frequent on the Moray coast, but local and rare in vc. 107. No recent records

ND01

NVC: OV 1

Lupinus arboreus Sims *Tree Lupin*

• n 6

Introduced, on dry sandy grassland and railway banks near the coast. Local and rare.

Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Braefoot Portgower	ND010135	hamlet	05/05/2013
Ross Terrace Brora	NC905387	railway	01/07/2013
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Dalchalm	NC911059	hamlet	19/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

Also locally established on the Moray coast.

Lupinus x regalis Bergmans *Russell Lupin* = **L. arboreus** x **L. polyphyllus**
Lupinus x *polyphyllus* auct., non Lindley

• h 6

One of the commonest cottage-garden plants. Frequent as an escape or outcast. Under-recorded in the past (as *L. polyphyllus*). Most garden escapes are Russell Lupins, which Stace refers to *L. x regalis*, rather than Garden Lupins (*L. polyphyllus*)

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Brora Station	NC906041	railway	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Embo	NH815928	village	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Rosehall	NC470021	village	12/07/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010

Camore	NH778903	council houses	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Clynesh Distillery Brora	NC896054	waste ground	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
North Brae Brora	NC906040	terrace	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kildonan Church	NC910207	churchyard	11/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Rhinamain	NH610938	hamlet	18/06/2011
Craigton	NH627961	farmstead	18/06/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
Inchomnie	NC748062	hamlet	22/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Embo	NH817928	village	23/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Brora Golf Course	NC910039	club house	23/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kilmaree	NH799982	hamlet	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Doll	NC888028	hamlet	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012

Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Station Terrace Brora	NC906409	terrace	07/05/2013
Brora Station	NC906414	railway	07/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Embo	NH817928	village	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
High Street Lairg	NC584632	village	02/07/2013
Davochfin	NH778889	hamlet	04/07/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Sleastery	NH643963	croft	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Killin Loch Brora	NC855706	croft	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Kinbrace Station Cottage	NC862316	garden	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

Lupinus polyphyllus Lindl. *Garden Lupin*

Introduced on railway banks and waste ground. Locally established or casual. Rare. No recent records (but see *Lupinus x regalis* above).

NC80

[**Lupinus nootkatensis** Donn ex Simms *Nootka Lupin*] • h 6

Locally abundant on river gravels in the Central Highlands, where it has been known since 1862.

Laburnum anagyroides Medik. *Laburnum* • m 5

Introduced to plantations, hedges and waste ground in small quantity. In every village; often self-sown in pavements, hedgerows, railway sidings and on waste ground. Leaves and young shoots covered in silvery, silky hairs.

NH78

Dornoch Academy	NH789899	roadside	10/04/2010
Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Clashmore	NH747895	village	10/07/2010
Lothmore Church	NC971113	churchyard	11/07/2010
Brora	NC910041	suburbia	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
N Helmsdale	ND026156	village	08/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Brora Industrial Estate	NC905412	waste ground	07/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
High Street Lairg	NC584632	village	02/07/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Brora Industrial Estate	NC905418	waste ground	07/07/2013
Sleastary	NH643963	croft	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014

North Brora	NC909044	bungalows	19/06/2015
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Golspie S	NC824997	village	09/05/2015
Lairg	NC581068	council houses	10/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Park Terrace Brora	NC905040	village	13/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

[**Laburnum x watereri** (Wettst.) Dippel = **L. anagyriodes x L. alpinum**] • m 5
Cytisus x watereri Wettst.

This is the most commonly planted *Laburnum* these days. Sold in every garden centre, but not yet seen outside of gardens. Its hybrid sterility ensures that it does not spread by seed. Intermediate in flower and raceme characters, but much less hairy than *L. anagyroides*.

[**Laburnum alpinum** (Mill.) J.S. Presl *Scottish Laburnum*] • m 5
Cytisus alpinus Miller

Glabrous to sparsely pubescent twigs and smaller flowers (13-18mm rather than 17-23mm) in rather longer racemes (25-35cm rather than 15-30cm). No records, but worth searching for.

Cytisus scoparius (L.) Link *Broom* n 5
Spartium scoparium L.
Sarothamnus scoparius (L.) Koch

Scrub and heaths. Also on sandy fields, margins of dry woods, railways, roadsides and waste ground on dry, acid soils. Widespread and frequent and locally dominant.

NC30 NC31 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC70 NC73 NC74 NC80 NC81 NC82
 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: OV 27; W 10,18,23

Cytisus scoparius f. andreanus

This is the genotype with red-and-yellow flowers

Embo	NH817928	village	23/06/2011
West Shinness crofts	NC533151	hamlet	14/07/2011

[**Spartium junceum** L. *Spanish Broom*] • n 5

A garden escape found on waste ground, roadsides, railways and grasslands. Much increased. Now occasional on waste ground and sandy roadsides, and very conspicuous when in bloom (each flower is 20-28mm, rather than 15-20mm in *Cytisus scoparius*).

Genista anglica L. *Petty Whin*

n 5

Heaths, bogs, and acid grasslands; local, rare and decreasing. No recent records.

NC70 NH69 NH78 NH79 NH88

NVC: H 2, 5, 16

Genista tinctoria L. *Dyer's Greenweed*

n 5

A native of Southern Scotland, growing here as a garden escape. Very rare.

Academy Street Brora NC903044 bungalows 13/06/2015

Genista hispanica L. *Spanish Gorse*

• n 4

A garden plant, increasingly used in landscaping schemes to give a low, but vandal-deterring, ground cover, with the bonus of good yellow flowering in spring. An uncommon outcast.

Achnairn Shinness	NC555128	hamlet	13/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Ospisdale House	NH713897	parkland	11/07/2013

Genista lydia Boiss.

• n 5

A rare garden plant, and a very rare outcast.

Biblical Gardens Golspie NC837001 garden 07/09/2012

Ulex europaeus L. *Gorse*

n 3

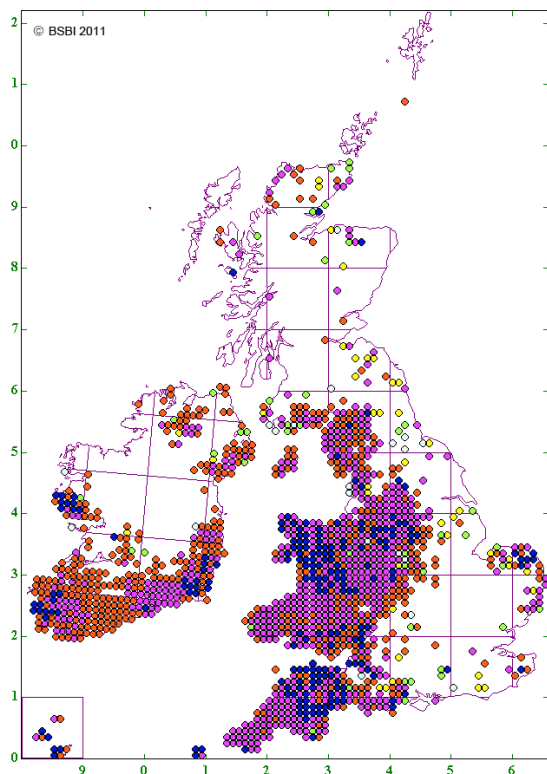
Strath-sides, river gravels, heaths and dry pastures. Locally common and widely distributed on roadsides, railway lines and waste ground.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68
NH69 NH78 NH79 NH88 NH89

NVC: CG 2-5; H 2,3; M 16; MG 5; OV 27; U 1,2,20; W 10,16,22-25

Ulex gallii Planch. *Western Gorse*

n 7



Local, with scattered records from a few heathy roadsides. Probably not native in northern Scotland.

Kinbrace		15/07/1962	M. McC. Webster
S of Forsinard		15/07/1963	M. McC. Webster; P.M. Benoit
S of Forsinard	NC880390	17/10/1967	J.H. Penson
A9 near Dornoch	NH782926	04/10/1980	J.K. Butler
N of Brora Station		03/11/1980	J.K. Butler

NC51 NC83 NC84 NC90 NH79 NH89

Embo Mains	NH805929	roadside	24/09/2010
Alltnacaorach Loch Shin	NC506181	wet heath	08/09/2012

NVC: W 16; M 14, 16, 25; H 2, 4, 5, 6, 8, 11; U13; OV 27, 34

[*Ulex minor* Roth Dwarf Gorse]

n 7

Heaths, commons, wood margins and damp acid grasslands. There is a record from NC91, but I suspect that this was *U. gallii*. You need to take the average of measurements from at least 10 calyxes, keels and standards to tell this species reliably from *U. gallii*.

POLYGALACEAE

Polygala vulgaris L. *Common Milkwort*

chh 5

Sand dunes, grassland and heathland. Locally common in a variety of colours from deep blue through pale blue to white and deep pink. Despite its name, this is the less common of the two Milkworts in vc. 107 (except for coastal dunes, where it is the more frequent of the two). Its two subspecies have not yet been worked out. The outer three sepals are usually obtuse at the apex (not acute), and not even the most basal leaves are opposite.

NC30 NC31 NC32 NC40 NC42 NC50 NC51 NC62 NC63 NC70 NC71 NC73 NC80 NC81 NC82
NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH69 NH78 NH79 NH89

NVC: M 13, 24

Polygala vulgaris subsp. **vulgaris**

Most of the older records (above) will be of this, but some of them may be errors for *Polygala serpyllifolia*.

Brora Golf Course	NC915058	links	12/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH806907	Juniper dunes	14/05/2011
Golspie Caravan Park	NH821982	links	14/05/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Glen Sletdale	NC935125	birch wood	17/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012

Individuals with **white flowers** have been recorded from:

Golspie Caravan Park	NH821982	links	14/05/2011
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[**Polygala vulgaris** subsp. **collina** (Rchb.) Borbas]
Polygala oxyptera auct. non Rchb.

This is recorded from the Moray coast. The inner sepals are smaller (4-6mm x 2-3.5mm rather than 6-8.5mm x 3.5-5mm) and distinctly narrower than the capsule (rather than the same size as the capsule). White flower colour is not a reliable feature.

Polygala serpyllifolia Hos, *Heath Milkwort*

chh 5

Dry pastures, heaths, short grassland and woodland rides on acid soils. Common and widely distributed. The plant is an abundant feature in our heath vegetation, where the flowers are often

white; but forms with dark blue, pink, and pale blue flowers are found. Sometimes, you need to look right to the very base of the plant in order to find an opposite pair of leaves.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH68
NH69 NH78 NH79 NH88 NH89

Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Loch Merkland	NC364331	wet heath	13/05/2011
West Merkland	NC384329	stream	13/05/2011
Duchally Lodge	NC388166	riverbank	10/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
Langwell Hill	NC409120	wet heath	10/05/2011
Glen Cassley	NC455050	riverbank	10/05/2011
Glen Cassley	NC456050	wet heath	10/05/2011
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Allt na Caorach Loch Shin	NC491198	wet heath	13/05/2011
Loch Gaineamhach	NC515258	wet heath	11/05/2011
A839 watershed	NC521017	wet heath	10/05/2011
Watershed at The Crask	NC521259	wet heath	11/05/2011
Strath Tirry	NC548195	wet heath	11/05/2011
N of Colaboll Loch Shin	NC553113	wet heath	13/05/2011
Creag nan Laogh (160m)	NC706410	wet heath	11/05/2011
Palm Loch	NC710411	wet heath	11/05/2011
Loch Rosail	NC717402	wet heath	11/05/2011
Loch Rosail	NC717402	loch side	11/05/2011
Rimsdale	NC737399	wet heath	11/05/2011
Gleneig	NC737050	wet heath	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Rimsdale Hill	NC760393	wet heath	11/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Cnoc Bad a Ghille Dhuibh	NC788366	wet heath	11/05/2011
Loch Achnamoine	NC815322	wet heath	11/05/2011
Ascoile Glen Brora	NC824107	stream	12/05/2011
Kinbrace Hill	NC870288	roadside	11/05/2011
Loch an Ruathair	NC871357	loch side	11/05/2011
Meall a Bheallaich (196m)	NC883404	wet heath	11/05/2011
Cnoc Bad na h-Eiris	NC887254	dry heath	11/05/2011
Cnoc Bad na h-Eiris	NC887254	roadside	11/05/2011
East Clyne	NC893062	stream	12/05/2011
Glen Loth	NC945111	dry heath	08/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Lothmore gravel pi t	NC970105	pond	12/05/2011
Kilphedir Lodge Hemsdale	NC989186	stream	11/05/2011
Sidhean Mor (199 m)	NH646972	wet heath	13/05/2011
W Loch Buidhe	NH653982	wet heath	13/05/2011
Garskelly Strath Carnaig	NH710983	wet heath	13/05/2011
etc.			

NVC: H 3; M 16,21

ROSACEAE

Sorbaria kirilowii (Regel) Maxim. *Chinese sorbaria* • n 5
Sorbaria arborea C.K. Schneid.
Sorbaria assurgens M. Vilm. & Bois

An occasional garden shrub, rarely self sown or outcast.

Skibo Castle S aspect	NH736890	gardens	09/05/2011
Sallachy Memorial Cairn	NC547090	monument	02/07/2013

[Physocarpus opulifolius (L.) Maxim. *Ninebark*] • n 5

A popular garden shrub, often planted as yellow-leaved cultivars in cheap landscaping schemes. Occasionally self seeding close to the parents.

Spiraea

There has been a good deal of confusion in the past about the identity of garden escapes and garden relics of *Spiraea*. Most of the old records lumped them all together under the name *S. salicifolia*. Then there was a backlash, and they all got recorded as *S. douglasii*. Now that Stace has provided a decent key, there is no excuse for not doing them properly. Most of ours are *S. x rosalba*.

The difficult ones are the taxa with long pink inflorescences (*S. douglasii*, *S. tomentosa*, *S. salicifolia*, *S. x pseudosalicifolia*, *S. rosalba*, *S. alba*, *S. x billardii* and *S. x brachybotrys*). The species with flat-topped inflorescences are relatively straightforward (*S. chamaedryfolia*, *S. x vanhouttei*, *S. canescens* and the pink-flowered *S. japonica*). The key features are petal length relative to stigma length, hairiness of the panicle branches and inflorescence axis, and the nature of the hairiness of the underside of the leaves. Nothing too difficult, just painstaking.

[Spiraea salicifolia L. *Bridewort*] • n 6

Mature leaves glabrous beneath when mature, margins toothed for their entire length, panicle branches pubescent, and petals bright (rather than pale) pink. Roadsides and waste places on acid soil.

Spiraea x rosalba Dippel *Intermediate Bridewort* • n 6

This is our common, thicket-forming invasive species. Panicle branches sparsely (not conspicuously) hairy, leaves broader (narrowly ovate not lanceolate), petals pale pink, pollen less than 20% fertile. The leaf margins are toothed from top to bottom. The leaves are green below (not white or grey).

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Station	NH825997	railway	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010

East Brora	NC904046	suburbia	11/07/2010
North Lodge Rosehall	NC479018	ruined walls	12/07/2010
Camore	NH778903	council houses	12/07/2010
West Merkland	NC384329	stream	13/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Astle	NH745919	hamlet	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Linsidemore Wood	NH534991	roadside	12/07/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Clashmore	NH747895	village	11/09/2012
Fanich Doll	NC879037	hamlet	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
Glenelg	NC737050	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Kinbrace Farm cottage	NC873284	hamlet	10/09/2012
Kildonan Crossing Cottage	NC901216	abandoned garden	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Academy Street Brora	NC900044	bungalows	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
West Shinness Lodge	NC530151	hamlet	08/09/2012
Merkland Lodge	NC401294	hamlet	08/09/2012
West Merkland	NC384329	hamlet	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Achrimsdale	NC909067	hamlet	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Duke Street Golspie	NC838001	old walls	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012

Seaforth Road Golspie	NH829999	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Badfluich Turning	NC505015	conifer plantation	19/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Birch Cottage Rogart	NC734029	hamlet	18/05/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Rhian	NC563165	hamlet	04/05/2013
Gordonbush Lodge	NC845096	walled gardens	05/05/2013
Big Burn car park Backies	NC837013	woodland	05/05/2013
Strath Helmsdale	ND022171	birch wood	05/05/2013
North Brora Muir	NC891042	hamlet	05/05/2013
Main Street Brora	NC903039	street	07/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Ross Terrace Brora	NC905038	railway	01/07/2013
High Street Lairg	NC584063	village	02/07/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Helmsdale	ND033153	seaside grass	07/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Bardnabeinne	NH714904	hamlet	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

Spiraea x pseudosalicifolia Silverside *Confused Bridewort* • n 6
 Spiraea x billardii auct., non Hérincq
 Spiraea x eximia K. Koch, non Regel

Leaves pubescent beneath with the green surface showing through the hairs, panicles terminal only (no lateral panicles), and the panicles sub-cylindrical (rather than narrowly conical). The margins are toothed for more than half their length back from the tip. This old record requires confirmation.

NC92

Spiraea douglasii Hook. *Steeple-bush* • n 6
 Spiraea fulvescens auct., non Dippel
Spiraea douglasii subsp. **douglasii**

The leaves are white tomentose beneath when mature, so that the undersurface of the leaf is obscured by hairs, and the leaves are entire in the proximal half of the margin (i.e. toothed towards the leaf tip but un-toothed in the bottom half towards the petiole). Much less common with us than *S. x rosalba*.

Clashmore NH747895 village 10/07/2010

Camore	NH778903	council houses	12/07/2010
Kildonan Lodge	NC904223	parkland	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012

Spiraea x brachybotrys Lange *Lange's Spiraea* ● n 6

This is the pink-flowered Spiraea with a broadly conical (rather than cylindrical) inflorescence. The leaves are toothed only near the apex and are grey-tomentose beneath.

Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
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Spiraea japonica L.f. *Japanese Spiraea* ● n 6

This is the common pink flowered, flat-topped garden shrub, usually as 'Anthony Waterer'.

Linsidemore	NH545991	hamlet	12/07/2010
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
High Street Lairg	NC584063	village	02/07/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Anderson Court Dornoch	NH791895	new housing	29/06/2014
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

Spiraea x arguta Zab. *Garland Spiraea*

The common white-flowered, early-spring garden shrub.

Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Brora Catholic Church	NC906037	bungalows	09/09/2012
Front Street Embo	NH817927	village	18/05/2012
Big Burn Bridge Golspie	NC840005	stonework	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Alistair Road Golspie	NH827995	semidetached	07/05/2013

Tulloch Place Bonar Bridge	NH609917	terrace with	08/05/2013
Hilton	NH804915	hamlet	04/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Kyloag	NH660911	hamlet	08/05/2015
Golspie S	NC824997	village	09/05/2015
Lairg	NC581068	council houses	10/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Kinbrace	NC862317	hamlet	16/06/2015

Aruncus dioicus (Walker) Fernald *Buck's-beard*

• hp 6

A rare but conspicuous garden outcast. Long persistent but not self-seeding. Told from *Astilbe* (which is in the Saxifragaceae) by its 3 carpels (not 2), and its more numerous stamens (more than 10, not 10).

Clashmore	NH747895	village	10/07/2010
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Morvich	NC753007	hamlet	11/07/2011
Rosehall	NC470022	village	09/07/2013
Invercassley Stores Rosehall	NC470020	waste ground	28/06/2014

Holodiscus discolor (Pursh) Maxim. *Oceanspray*

• m 7

Spiraea discolor Pursh

Commonly naturalised, and locally thicket-forming, on railways, waysides and waste ground. One of the most characteristic garden escapes of northern Scotland, with its foamy white flowers in mid summer.

Golspie Main Street	NH831999	street	11/04/2010
Lonemore	NH764884	hamlet	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Pittentrail	NC726020	village	12/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Skibo Castle N drive	NH728869	parkland	10/05/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Duke Street Golspie	NC838001	old walls	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Culgower House	NC976119	parkland	17/05/2012
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

Kerria japonica (L.) DC. *Kerria*

• n 4

Rubus japonicus L.

A popular garden plant, forming long-lived thickets, and hence rather commonly thrown out. Also escapes from gardens by creeping under the fence, especially along railway lines. The double

flowered cultivar 'Pleniflora' is much more often seen than the elegant, single flowered form 'Simplex'.

Clashmore	NH747895	village	10/07/2010
Back Road Golspie	NC829000	council houses	08/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Brora Golf Club	NC909039	suburbia	27/06/2014
Lower Brora	NC908037	bungalows	11/05/2015
Lairg	NC581068	council houses	10/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

Dryas octopetala L. *Mountain Avens*

chw 6

Dryas babingtoniana A. Pors.

A plant of upland limestone country, locally abundant in West Sutherland but rare in vc. 107. Occasionally grown on rockeries and patios but seldom found as an outcast or an escapee.

NC31 NC32 NC83 NC84

Ben Griam Mor	NC790390	1977	Derek Ratcliffe
Ben Griam Beg	NC840441	1977	Derek Ratcliffe
Bealaich Traligill	NC303190	11/07/98	Gordon Rothero
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Ben Griam Mor SW crags	NC802389	crag	15/07/2011
Creag Dhubh	NC800390	rocks	15/07/2011
Creag Dhubh	NC808390	crag	15/07/2011
Creag Dhubh	NC807391	crag	15/07/2011
Ben Griam Mor SW crags	NC802389	crag	15/07/2011

An uncommon garden escape as at:

Ross Gardens Golspie	NC834004	council houses	14/05/2011
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Prunus serrulata Lindl. *Japanese Cherry*

• m 4

A great many cultivars of flowering cherry are grown, but few produce viable seeds and none are naturalised in vc. 107.

Gallows Hill Dornoch	NH803901	derelect garden	21/06/2015
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Prunus 'Kanzan' *Pink Japanese Cherry*

• m 4

Many peoples' least favourite Flowering Cherry with its profusion of garish almost purple-pink double flowers. Always planted.

Crackaig Farm Wood	NC957105	woodland	17/05/2012
Ferry Road Golspie	NH826997	terrace	08/05/2011

Fountain Road Golspie	NC831001	suburbia	11/05/2015
Doll	NC884032	hamlet	11/05/2015
Cambusmore Gatehouse	NH771968	hamlet	08/05/2015
Invershin Station	NH579953	hamlet	12/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Embo	NH816928	village	08/05/2015
Golspie	NC832000	village	08/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Fanich	NC879037	hamlet	11/05/2015
Bonar Bridge	NH611917	village	08/05/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
West Helmsdale	ND020154	hamlet	14/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
West Clyne	NC905064	hamlet	14/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Victoria Crescent Brora	NC907042	council houses	14/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

Prunus 'Amanogawa' *Fastigiata Japanese Cherry*

• m 4

Rutherford Terrace Helmsdale	ND029154	village	09/05/2015
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Prunus dulcis (Mill.) D.A. Webb *Almond*

• m 4

Prunus amygdalus Batsch

A very rare tree in northern Scotland. Always planted.

Biblical Gardens Golspie	NC837001	garden	07/09/2012
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Prunus cerasifera Ehrh. *Cherry Plum*

• m 2

Planted in hedges, plantations and roadside verges; our commonest early-flowering tree, yet it is all but invisible for most of the year. White flowered, like a very early Blackthorn, blooming in February. Known by its green (not brown) first year twigs. Seldom found far away from villages or plantations. Generally seen as a single specimen in a hawthorn or blackthorn hedge, but occasionally forming dense thickets on roadsides. Seldom if ever self-sown.

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010

Prunus cerasifera 'Nigra'

Dunrobin Castle	NC850007	parkland	17/05/2012
Camore	NH775903	bungalows	30/06/2013
Ord Place Lairg	NC580058	council houses	10/05/2015

Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Golspie	NC832000	village	08/05/2015
West Clyne	NC905064	hamlet	14/05/2015
Fuaran Ruairidh Badninish	NH763942	hamlet	17/05/2015

Prunus cerasifera 'Spring Glow'

Biblical Gardens Golspie	NC837001	garden	07/09/2012
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Prunus spinosa L. *Blackthorn*

m 3

Commonest on roadsides and in hedges of gardens and in villages. Flowers appearing as early as February, but always *after* the flowers of *P. cerasifera* (see above). Hawthorn (*Crataegus monogyna*) flowers much later (April-May) as its leaves are coming out. Lowlands in the east, occasional.

NC40 NC50 NC51 NC60 NC70 NC71 NC80 NC81 NC91 ND01 NH59 NH68 NH69 NH78 NH79

Maikle Kyle of Sutherland	NH595936	woodland	12/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Muie	NC669044	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
The Mound sea wall	NH776982	new sea wall	11/07/2011
Linsidemore	NH540990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Gruids	NC566039	hamlet	16/05/2012
Spinningdale	NH675897	hamlet	08/05/2013
Flood Bay	NH712882	coastal grassland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Pittentrail	NC726019	village	10/05/2015
Dalnbreac Strath Fleet	NC688038	roadside	10/05/2015
Strath Oykel	NH496999	riverbank	12/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
St Callan's Rogart	NC738035	hamlet	10/05/2015
NW Spinningdale	NH674899	hamlet	08/05/2015
Kyloag	NH660911	hamlet	08/05/2015
Culdrair	NC738044	hamlet	10/05/2015
Kinbrace	NC862317	hamlet	16/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Muie	NC669044	hamlet	12/06/2015
Blarich Strath Fleet	NC691038	roadside	16/05/2015

NVC: W 6,8,10,21,22,24,25

Prunus domestica L. *Wild Plum*

o m 4

Woods, plantations and hedges; not uncommon, but almost always the offspring of the garden plum or damson. Always in small quantity and absent from the most acid soils. The distributions of the 3 subspecies within vc. 107 have not been worked out in any detail.

NC40 NC90 ND01 NH78

Prunus domestica subsp. **domestica** *Plum*

This has spineless, sparsely pubescent twigs and a large, flattened stone.

Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Borrobol Lodge	NC871264	cultivated ground	17/06/2015

Prunus domestica subsp. **insititia** (L.) Bonnier and Layens *Bullace or Damson*
Prunus insititia L.

This has densely pubescent and spiny twigs, small fruits and a less flattened stone. The Davoch plant has a single individual of *Viscum album*, low down on its trunk (planted there by Morven Murray in 2009)

Davoch Pittentrail	NC723016	garden	10/09/2012
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Prunus domestica subsp. **italica** (Borkh.) Gams ex Hegi *Greengage*

Prunus italica Borkh.

Prunus insititia L. convar. *italica* (Borkh.) Dost l

This is intermediate between plum and damson. In practice it is often impossible to name the subspecies found in the wild with any degree of confidence.

Prunus avium (L.) L. *Wild Cherry*

m 4

Prunus cerasus L. var. *avium* L.

Dry woods, coppices, not uncommon, especially on the eastern lowlands. Told (often with difficulty) from *P. cerasus* by the shape of the hypanthium: it is bowl-shaped in *P. avium* and cup-shaped in *P. cerasus*. If any of the bud scales at the base of the flowers are green and leaf-like then your plant is *P. cerasus*. Closely associated with people and their buildings in vc. 107. Our really wild cherry is *P. padus*.

Big Burn Golspie	15/07/1975	J.E. Kirby
R Fleet Torbreck	15/07/1976	Michael Marshall

NC40 NC42 NC50 NC60 NC70 NC80 NC82 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69
 NH78 NH79 NH89

Lonemore	NH764884	hamlet	11/07/2010
Rosehall	NC470021	village	12/07/2010

Invershin Station	NH580953	railway	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Muie	NC669044	hamlet	13/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Drumliah	NH608931	ruined croft	09/07/2011
Burnside	NH609926	lane	09/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Inveran	NH560970	composite	12/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Doll	NC876034	hamlet	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Academy Street Brora	NC900044	bungalows	09/09/2012
Brora Catholic Church	NC906037	bungalows	09/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Milnafua Bridge Rogart	NC732025	roadside	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Larachan House	NH688893	roadside	16/05/2012
Balblair	NH602930	woodland	16/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Big Burn car park Backies	NC837013	woodland	05/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Camore	NH775903	bungalows	30/06/2013
R Evelix at Cuthill Bridge	NH748878	riverbank	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

The double-flowered **P. avium** '**Plena**' is uncommon in the north:

Bonar Bridge	NH610914	village	07/05/2011
Castle Street Dornoch	NH794897	village	08/05/2013
Rhives Farm Golspie	NC828004	hamlet	11/05/2015

NVC: W 8, 10, 12, 14

[**Prunus cerasus** L. *Dwarf Cherry*]

o m 4

Hedges and wood margins; always much less common than *P. avium*. Told from *P. avium* by features of the hypanthium; there are many errors in the old records. *P. cerasus* has a deep hypanthium cup- (not bowl-) shaped, parallel-sided (not constricted at opening), and fewer flowers per umbel (2-4 rather than 2-6); some of the bud scales beneath the flowers are green and leaf-like. The leaves are rounder, glossier, and *lack* the 2 red glands at the top of the petiole. Known from Easter Ross and worth looking for in vc. 107.

Prunus padus L. *Bird Cherry*

m 4

Woodland and shrubberies, and rarely in hedgerows. Often mistaken for *P. serotina* which also has flowers in elongate racemes, but *P. padus* has larger petals (> 5mm vs. < 5mm) and the sepals fall before the fruit is ripe (they persist in *P. serotina*). Lowlands in the east.

NC30 NC40 NC50 NC60 NC63 NC70 NC71 NC80 NC81 NC82 NC91 NC92 ND01 NH59 NH69
NH79 NH89

Maikle Kyle of Sutherland	NH595936	woodland	12/07/2010
Blarich	NC695041	stream	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Kildonan Farm	NC910209	farm	11/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Helmsdale Riverside	ND026154	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Rhianrivach	NH629929	hamlet	13/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Linsidemore	NH540990	woodland	12/07/2011

Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
R Cassley Rosehall Bridge	NC471022	riverbank	08/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Achany Shin Woods	NH575997	woodland	16/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Achany Glen	NC570020	woodland	16/05/2012
Pittentrail	NC727017	roadside	02/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
etc.			

NVC: W7, 8, 9

Prunus laurocerasus L. *Cherry Laurel*

• m 4

The common garden hedging plant, frequent in shrubberies. Bird-sown escapes can form dense thickets to the exclusion of all other vegetation. In some areas, it is a worse problem than *Rhododendron ponticum* and often grows with it, in mixed-species, alien shrublands. Commonest as an understorey shrub in pine plantations. The smaller, neater, dark leaved cultivar 'Otto Luyken' is much planted in urban landscaping schemes (see below).

Dornoch River Street	NH798895	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Achrimsdale	NC907065	hamlet	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Cavaig North Brora	NC894041	hamlet	10/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Sallachy	NC549085	hamlet	06/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013

Camore	NH775903	bungalows	30/06/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Grange Road Dornoch	NH800896	village	29/06/2014
Kyloag	NH660911	hamlet	08/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Merkland Lodge	NC400297	hamlet	13/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
West Langwell	NC698088	hamlet	13/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Sallachy	NC548085	hamlet	13/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Prunus laurocerasus ‘Otto Luyken’

A distinctive cultivar with narrow, pointed leaves, much used in landscaping schemes

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Cassley Drive Rosehall	NC470022	council houses	19/05/2012

Cerasus subhirtella f. autumnalis (Makino) H. Ohba. *Autumn Cherry*

• m 5

Prunus subhirtella ‘Autumnalis’ L

Castle Street Dornoch	NH794897	village	08/05/2013
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Cerasus lusitanica (L.) Dum. Cours. *Portugal Laurel*

• m 5

Prunus lusitanica L.

A frequent shrubby evergreen, told by its red petioles. Much planted in landscaping schemes in towns and villages. Very rare in hedgerows or in farmland.

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Clashmore	NH747895	village	10/07/2010
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

[Oemleria cerasiformis (Torr. & A. Gray ex Hook. & Arn.) J.W. Landon *Osoberry*]

• n 3

Osmaronia cerasiformis (Torrey & A. Gray ex Hook. & Arn.) E. Greene

A very early spring (March) flowering shrub, forming dense thickets, but not spreading far beyond the original point of planting.

[**Cydonia oblonga** Mill. *Quince*]
Pyrus cydonia L.

• m 5

This is the edible quince (although the flowering quince (below) produces big fruits).

Chaenomeles speciosa (Sweet) Nakai *Chinese Quince*
Cydonia speciosa Sweet
Cydonia japonica auct., non (Thunb.) Lindley ex Spach

• n 3

Frequent as a garden plant, with its bright red flowers appearing in early spring. An uncommon outcast or garden escape, occasionally self-sown. The white-flowered plant is rare with us.

Balnacoil Lodge	NC804113	06/08/1999	BSBI
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Rosehall	NC470021	village	12/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Ospisdale House	NH713897	parkland	11/07/2013
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Rosehall	NC470021	village	10/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Golspie	NC832000	village	08/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Kinbrace	NC862317	hamlet	09/05/2015
Embo	NH816928	village	08/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015
Fuaran Ruairidh Badninish	NH763942	hamlet	17/05/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Academy Street Brora	NC903044	bungalows	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Lonemore	NH764884	hamlet	17/05/2015

Pyrus communis L. *Pear* m 5

A rare garden escape or core-discard with us.

Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Front Street Embo	NH817927	village	18/05/2012
Pittentrail	NC726019	village	10/05/2015
Borrobol Lodge	NC871264	cultivated ground	17/06/2015

Pyrus salicifolia 'Pendula' *Silver Weeping Pear* • m 5

A popular garden plant, but rare as an outcast and not seen self-sown.

Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Castle Street Dornoch	NH794897	village	08/05/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Golspie S	NC824997	village	09/05/2015
Borrobol Lodge	NC871264	cultivated ground	17/06/2015
Clashmore	NH745895	hamlet	17/05/2015

Malus sylvestris (L.) Mill. *Crab Apple* m 5
Pyrus malus L. var. *sylvestris* L.

A rare native in deciduous woodland. No recent records. Almost all the Apple trees recorded are *M. domestica*. These old records require confirmation.

NC60 NC91

NVC: W 8,10,21

Malus domestica Borkh. *Apple* • m 5
Malus sylvestris (L.) Miller subsp. *mitis* (Wallr.) Mansf.

Hedges, roadsides, railways, found wherever apple-cores are thrown away. Typically in small quantity. *Malus sylvestris* is told from *M. domestica* by the possession of glabrous mature leaves, pedicels and outer calyx. Most of our apples are *M. domestica* but the distribution of the 2 taxa has not been worked out in vc. 107. There are reputable botanists who would say that there is only one kind of apple in Britain, and that there are no really wild *M. sylvestris*. Big crops of apples tend to be borne every other year ('alternate bearing').

Lettaidh Burn Tressady	NC696042	04/08/1999	BSBI
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NC60 NC91

Bonar Bridge	NH611911	suburbia	12/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Kildonan Station	NC901217	railway	11/05/2011

Bonar Bridge C	NH610914	village	07/05/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Railway Terrace Brora	NC905040	garden	10/09/2012
Portgower	ND010135	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Station Terrace Brora	NC906040	terrace	07/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Kyloag	NH660911	hamlet	08/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Marrel	ND016173	hamlet	14/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Borrobol Lodge	NC871264	cultivated ground	17/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
West Clyne	NC905064	hamlet	14/05/2015
Lonemore	NH764884	hamlet	17/05/2015

Malus floribunda Siebold ex Van Houtte *Flowering Crab* ● m 5

Invershin Hall Strath Oykel NH576972 hamlet 12/05/2015

Malus x purpurea (E.Barbier) Rehder *Purple Flowering Crab* ● m 5

Lairg NC579068 bungalows 10/05/2015
Golspie Biblical Garden NC837001 botanical garden 13/06/2015

Sorbus aucuparia L. *Rowan* mm 5

One of our most charismatic trees, on mountain rocks and by roadsides and in oak and birch woods on acid soils. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: H 2; W 5,8,10,14-16

Sorbus intermedia (Ehrh.) Pers. *Swedish Whitebeam* ● mm 5
Pyrus intermedia Ehrh.

Planted in hedges and parks as single trees; occasionally bird-sown. Occasional in the eastern lowlands.

NC60 NC70 NC84 ND01 NH59 NH79 NH88 NH89

Brora	NC910041	suburbia	11/07/2010
N Brora	NC904051	bungalows	12/05/2011
Loch Skibo Overskibo	NH727899	pond	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
East Shore Street Helmsdale	ND029152	village	07/09/2012
High Street Lairg	NC584063	village	02/07/2013
R Evelix at Cuthill Bridge	NH748878	riverbank	04/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
West Langwell	NC698088	hamlet	13/06/2015
Little Ferry	NH805956	hamlet	12/06/2015

Sorbus aria (L.) Crantz *Common Whitebeam*

• mm 5

Crataegus aria L.

Pyrus aria (L.) Ehrh.

Roadsides, and mixed woodlands on larger policies. Seldom seen in wilder-looking woods. Planted or more rarely bird-sown. Occasional in the lowlands.

NC50 NC51 NC60 NC70 NC84 ND01 NH68 NH69 NH78 NH79 NH89

Achnairn Shinness	NC555128	hamlet	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Kildonan Crossing Cottage	NC901216	abandoned garden	09/09/2012
Kildonan Lodge	NC904223	parkland	09/09/2012
Lairg Station	NC583039	railway	06/09/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Church Street Golspie	NH828997	bungalows	07/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Ospisdale House	NH713897	parkland	11/07/2013
North Brora	NC909044	bungalows	19/06/2015
Golspie	NC832000	village	08/05/2015
Brora Golf Club	NC909039	suburbia	27/06/2014
St Callan's Rogart	NC738035	hamlet	10/05/2015
Fanich	NC879037	hamlet	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Balblair	NH799973	hamlet	12/06/2015

School Road Dornoch	NH790898	suburbia	17/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Borrobol Lodge	NC871264	cultivated ground	17/06/2015

NVC: W 8,12-14,16,21

Sorbus rupicola (Syme) Hedl. *Rock Whitebeam*

mm 5



Sorbus rupicola JC Schou

A local speciality of base-rich rocky slopes. Cambusmore (1939 and 1962). Not seen on Mound Rock in July 2011.

NC70 NC74 NH79

Marian's Rock	NC747013	25/06/76	Ratcliffe, Dr D.A.
Marian's Rock	NC7401	18/05/82	Stirling, Mr A.M., Mitchell, Mr J.
Mound Rock	NH7798	01/07/39	Hall, Mr P.M., Wallace, Mr E.C.
Mound Rock	NH7798	1961	Stirling, Mr A.M.
Mound Rock	NH7798	01/07/62	Stirling, Mr A.M.
Mound Rock	NH7798	11/07/62	Mackechnie, Mr R.

Marian's Rock	NC747012	cliff	13/05/2011 (one plant)
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011

[**Sorbus latifolia** (Lam.) Pers. *Broad-leaved Whitebeam*]

• mm 5

Recorded from Easternness and East Ross.

[**Sorbus x thuringiaca** (Ilse) Fritsch *German Service-tree*]

• m 4

Recorded from Easternness and East Ross.

Cotoneaster is a huge genus of ornamental shrubs, with 54 species given in Bean as hardy in the British Isles, and 68 species listed in Stace, with over 200 taxa listed for sale in the 2001 edition of the *Plant Finder*. Rumsey Gardens of Waterlooville hold the National Collection and offer more cultivars for sale than anyone else. They are hard to identify because, to use the keys, you need flowers and ripe fruits simultaneously. Once the taxa are known, however, they can be told apart by the jizz of the leaves, but this requires a level of commitment with which few are blessed. A handful of species are genuinely naturalised (e.g. *C. simonsii*, *C. horizontalis*), but most occur as planted individuals by roads or in landscaping schemes, and as rare, bird-sown casuals close to these parents. Here are the commonest planted cultivars, ranked by the number of nurseries that sell them:

<i>frigidus</i> 'Cornubia'	40
<i>franchetii</i>	29
<i>dammeri</i>	26
<i>atropurpureus</i> 'Variegatus'	25
<i>salicifolius</i> 'Pendulus'	25
<i>salicifolius</i> 'Exburyensis'	22
<i>conspicuus</i> 'Decorus'	21
<i>salicifolius</i> 'Rothchildianus'	21
<i>lacteus</i>	20
<i>microphyllus</i>	20
<i>simonsii</i>	20
<i>cochleatus</i>	18
<i>congestus</i>	18
<i>integrifolius</i>	18
<i>salicifolius</i> 'Gnom'	18
x <i>suecicus</i> 'Skogholm'	16
<i>bullatus</i>	15
<i>salicifolius</i> 'Repens'	14
'Herbstfeuer'	12
<i>procumbens</i>	12
x <i>watereri</i>	12
<i>adpressus</i>	10
<i>divaricatus</i>	8
<i>dielsianus</i>	3

[**Cotoneaster frigidus** Wall. ex Lindl. *Tree Cotoneaster*]

• m 6

Cotoneaster affinis auct., non Lindley

Much the largest of the *Cotoneaster*s. Some records may refer to *C. x watereri* from which it is told by its broader, smoother leaves and smaller fruits (see below). Recorded from Easternness.

[**Cotoneaster x watereri** Exell *Waterer's Cotoneaster* = **C. frigidus x C. salicifolius**] • m 6

The semi-evergreen leaves have strongly impressed veins on the upper surface and the fruits are larger than in either parent. Recorded from Easternness.

Cotoneaster salicifolius Franch. *Willow-leaved Cotoneaster* • n 5
 School Road Dornoch NH790898 suburbia 17/05/2015

Cotoneaster dammeri C.K. Schneid *Bearberry Cotoneaster* • n 5

The commonest of the ground-cover species, used extensively in low-cost landscaping schemes.

Sallachy Memorial Cairn	NC547904	park	02/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
North Brora	NC909044	bungalows	19/06/2015
Harbour Road Helmsdale	ND026154	village	17/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Cotoneaster integrifolius (Roxb.) G. Klotz *Entire-leaved Cotoneaster* • n 5

Crataegus integrifolia Roxb.

Cotoneaster microphyllus Lodd., non Wallich ex Lindley

Cotoneaster thymifolius Wallich ex Lindley

Told from *C. microphyllus* by its bigger leaves 7-15mm (not 5-12mm) and 1-flowered (not 1-5 flowered) inflorescence. Fruit with 2 stones and white flowers 11mm across.

Helmsdale Main Street	ND027153	street	06/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Lonemore	NH764884	hamlet	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
N Brora	NC904051	bungalows	12/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Clashmore	NH747895	village	11/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Gartymore	ND014147	hamlet	05/05/2013
North Brora Muir	NC891426	hamlet	05/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Hilton	NH804915	hamlet	04/07/2013
Ospisdale	NH713898	roadside	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Dalchalm	NC909054	gravel	19/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Lower Brora	NC908037	bungalows	11/05/2015
Harbour Road Helmsdale	ND026154	village	17/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

[Cotoneaster x suecicus G. Klotz *Swedish Cotoneaster*] • n 5
 Recorded from the Moray coast.

Cotoneaster horizontalis Decne. *Wall Cotoneaster* • n 5

Introduced on garden walls; one of the most frequently self-sown species on waste ground, railways, etc. Common in suburban areas on and below old walls, in pavement cracks, etc.

Dornoch	NH800895	15/07/1956	John Anthony
Dornoch Main Street	NH798895	street	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Rosehall	NC470021	village	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Garvault Hotel	NC782386	garden	10/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Front Street Embo	NH817927	village	18/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Helmsdale	ND026154	village	05/05/2013
Station Terrace Brora	NC906409	terrace	07/05/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Rosehall	NC470021	village	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
NW Spinningdale	NH674899	hamlet	08/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
High Croft Hilton of Embo	NH805915	hamlet	11/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Lonemore	NH764884	hamlet	17/05/2015

Cotoneaster simonsii Baker *Himalayan Cotoneaster*

• n 5 ↑

A common bird-sown alien, this is the most frequently naturalized *Cotoneaster* with us (ahead of *C. horizontalis*). Introduced on waste ground and plantations; local but increasing. Occasionally invasive of heathland

Cambusmore	NH765972	15/07/1962	John Anthony
Dunrobin	NC852005	15/07/1962	John Anthony
Migdale Rock	NH649907	15/07/1976	J.E. Kirby
Brora			M. McC. Webster
Kildonan			M. McC. Webster
Helmsdale Station	ND020155	railway	06/04/2010
Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora Station	NC906041	railway	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Camore	NH778903	council houses	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Rhianrivach	NH629929	hamlet	13/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Astle	NH745919	hamlet	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Spinningdale	NH675897	waste ground	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Helmsdale Harour	ND029151	terrace	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011
Mound Rock basal woods	NH780985	woodland	10/07/2011
Mound Rock crags	NH780985	crags	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Mound Rock	NH770980	composite	11/07/2011

Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Strath Helmsdale	ND022171	roadside	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Brora Station	NC906414	railway	07/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Ross Terrace Brora	NC905387	railway	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Witches Pool Royal Dornoch	NH800892	pond	08/07/2013
Sleastery	NH643963	croft	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
Dalchalm	NC911059	hamlet	19/06/2015
Coastguard Station Dornoch	NH802892	waste ground	08/05/2015
Rosehall	NC470021	village	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Lairg	NC579068	bungalows	10/05/2015
Killin Rock Strath Brora	NC862053	birch wood	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
West Langwell	NC698088	hamlet	13/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Muie	NC669044	hamlet	12/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Old Town Rock Strath Brora	NC854089	crag	15/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
West Helmsdale	ND020154	hamlet	14/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Park Terrace Brora	NC905040	village	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Lonemore	NH764884	hamlet	17/05/2015

Cotoneaster rehderi Pojark. *Bullate Cotoneaster*

Cotoneaster bullatus var. *microphyllus* Rehder & E.H. Wilson

• n 5

Linsidemore Wood	NH534991	roadside	12/07/2011
Sutherland Street Helmsdale	ND028154	old walls	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012

Anderson Court Dornoch	NH791895	new housing	29/06/2014
Achinduich	NC580000	hamlet	12/06/2015
Little Ferry	NH805956	hamlet	12/06/2015

Cotoneaster franchetii Bois. *Franchet's Cotoneaster*

• n 5

One of the commonest garden shrubs in the genus. Has been mis-recorded as *C. simonsii*.

Skibo Castle S front	NH737890	parkland	11/07/2013
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Pyracantha coccinea M. Roem. *Firethorn*

• m 5

A common garden plant, often used in municipal shrubberies on account of its tough, spiny stems. Occasionally bird-sown on waste ground in towns and villages, but seldom far from houses. The yellow berried form is frequent in gardens, and is self-sown in a few places.

Invershin Station	NH580953	railway	12/07/2010
Camore	NH778903	council houses	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Doll	NC876034	hamlet	10/09/2012
Doll	NC871042	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Lindsay Street Golspie	NH830998	council houses	14/06/2015

Crataegus monogyna Jacq. *Hawthorn*

m 5

Crataegus laciniata Ucria

Hedges, woods, thickets, parks, etc. Mostly planted. Occasional, but generally distributed in the lowlands.

NC32 NC40 NC50 NC51 NC60 NC70 NC80 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Shinness Lodge	NC530150	hamlet	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011

Navidale House Hotel	ND039159	coastal grassland	23/06/2011
The Crask Inn	NC523246	garden	10/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Birch Cottage Rogart	NC734029	hamlet	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Crackaig Farm Wood	NC957105	woodland	17/05/2012
Gartymore	ND014150	hamlet	05/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Carn Liath	NC867139	lane	05/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Kyloag	NH660911	hamlet	08/05/2015
Lairg	NC579068	bungalows	10/05/2015
Allt Leacach Migdale	NH652914	pine woodland	08/05/2015
Lairg	NC581068	council houses	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Kyleoag Chambered Cairn	NH662911	ruin	08/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Laundry Road Lairg	NC586063	industrial	12/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
West Langwell	NC698088	hamlet	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Marrel	ND016173	hamlet	14/06/2015

NVC: CG 3-5; W 1,4-6,8,10,12,13,16,21,24,25

[Crataegus x media Bechst. = **C. monogyna x C. laevigata**]
Crataegus x macrocarpa auct., non Hegetschw.

Recorded from Inverness and the Moray coast.

[Filipendula vulgaris Moench *Dropwort*]
Spiraea filipendula L.,
Filipendula hexapetala Gilib., nom. inval.

hs 5

Recorded from the Moray coast.

Filipendula ulmaria (L.) Maxim. *Meadowsweet*
Spiraea ulmaria L.

hs 6

Moist meadows, mires, ponds, ditches, riverbanks, lake-sides and open moist places in woods.
Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC50 NC51 NC52 NC60 NC61 NC63 NC70 NC71 NC73
NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79
NH88 NH89

Achnairn Shinness	NC555128	hamlet	13/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Pittentrai 1	NC727020	woodland	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Rhilochan	NC743071	roadside	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Loch Brora Birchwoods	NC856080	stony shore	08/05/2011
East Clyde	NC893062	stream	12/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
E Loch Buidhe	NH673983	wet heath	13/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Astle	NH745919	hamlet	10/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Wind Sock Dornoch Airfield	NH800883	sand dunes	09/05/2011
S Embo links	NH815920	links	14/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Halmararie Burn	NC696320	molinia bog	20/06/2011
Ben Griam Mor N-facing	NC802389	crags	21/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Loch Fleet	NH780960	salt marsh	23/06/2011
Coul Links	NH807951	dune slacks	23/06/2011
Embo dune slacks	NH816932	dune slacks	23/06/2011
Embo dune slacks	NH815934	dune slacks	23/06/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Cuthill Links	NH748863	coastal grassland	24/06/2011
etc.			

NVC: M 13,22,24,27; MG 1,4,5,9,10; OV 26; S 3-8,14,18,23,25,26,28; W 1,4-6,8,22,24

Rubus chamaemorus L. *Cloudberry*

Peaty moor and blanket bog in the uplands. Widespread and common at higher elevations.

Ben Dhorain		15/07/1962	John Anthony
Ben More Assynt		15/07/1964	D.A. Ratcliffe
Ben Hee		15/07/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe

NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC52 NC62 NC63 NC70 NC72 NC80 NC83
NC84 NC91 NC92 NC93 ND01 NH49 NH69 NH79

Meallan Liath Mor	NC400320	summit heath	13/07/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Beg E side	NC830400	ridge	15/07/2011
Ben Griam Mor SW crags	NC800380	summit heath	15/07/2011
Creag Dhubh	NC800390	summit heath	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC830400	mountain ridge	15/07/2011
Loch na Caillich	NC500080	summit heath	16/07/2011
E of Sallachy	NC520080	summit heath	16/07/2011
Beinn Dhorain top	NC925156	summit heath	09/09/2012
Beinn Dhorain saddle	NC925160	summit heath	09/09/2012
Ben Uarie summit heath	NC928164	summit heath	09/09/2012
Lochan nan Smugaidean	NC361222	blanket bog	03/07/2013
Lochan nan Smugaidean	NC366224	blanket bog	03/07/2013
Ben Horn lower slopes	NC804058	wet heath	06/07/2013
Ben Horn mid slopes	NC805062	wet heath	06/07/2013
Ben Horn summit ridge	NC807064	summit heath	06/07/2013
Meall Meadhoin	NC800067	wet heath	06/07/2013
Meall Dubh Dunrobin Glen	NC794064	wet heath	06/07/2013
Meall Odhar Dunrobin Glen	NC787060	wet heath	06/07/2013
Loch Horn S slopes	NC795056	wet heath	06/07/2013
Meall an Fheur Loch	NC364307	wet heath	08/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Meall nan Aighean	NC690287	upper heath	12/07/2013
Ben Armine	NC694273	summit heath	12/07/2013
Coir an Eas Ben Armine	NC689254	wet heath	12/07/2013
Creag Mhor Ben Armine	NC698240	summit heath	12/07/2013
Knockfin Heights	NC932315	blanket bog	19/06/2015
Cnoc na Tuathrach	NC911340	blanket bog	19/06/2015
Cnoc na Tuathrach	NC911340	stream	19/06/2015
Knockfin Heights	NC925346	blanket bog	19/06/2015
Creag Dhearg N flank	NC923317	peat hags	19/06/2015
The Craggan	NC904168	rocky heather	20/06/2015

Knockfin Heights	NC914334	blanket bog	19/06/2015
Choire Mhor	NC912165	wet heath	20/06/2015
Knockfin Heights	NC911337	blanket bog	19/06/2015
Beinn Mhealaich Glen Loth	NC961149	summit heath	18/06/2015
Cnoc Meadhonach	NC845172	wet heath	20/06/2015
Allt an Tireidh	NC442322	wet heath	26/06/2014
Allt Coir a' Chruiteir	NC400340	upland	29/05/2014
Sail na h-Uamhaig	NC438302	wet heath	26/06/2014
Allt Coir a' Chruiteir	NC400330	upland	29/05/2014
Ben Hee E flank	NC438327	heather	26/06/2014
Carn na Ceardaich	NC388096	peat hags	28/06/2014
Beinn an Eoin E flank	NC394084	peat hags	28/06/2014
Beinn an Eoin E flank	NC406087	wet heath	28/06/2014
Cnoc Maol na Cloiche Gile	NC434287	summit heath	26/06/2014
Loch a' Ghorm-choire	NC438327	heather	26/06/2014
Coire Gleann na Muice	NC370110	peat hags	28/06/2014
above Loch Mealla a Bhurich	NC364115	summit heath	28/06/2014
Creag Thoraraidh Helmsdale	ND033184	upper slopes	14/06/2015
Creag Thoraraidh summit	ND039186	summit heath	14/06/2015
Cnoc Salisdale Helmsdale	NC950245	wet heath	17/06/2015
Cnoc Salislade Helmsdale	NC944239	dry heath	17/06/2015
Beinn Mhealaich Glen Loth	NC956152	steep heather	18/06/2015

NVC: M7, 18, 19, 20; H22

Rubus saxatilis L. *Stone Bramble*

n 6

Rocky and stony places; Widespread but commonest in the west and on higher ground.

Creag na h'Uidhe	15/07/1973	A.G. Kenneth
Dalmore	15/08/1976	Michael Marshall

NC30 NC31 NC32 NC33 NC40 NC41 NC50 NC52 NC62 NC70 NC71 NC72 NC73 NC74 NC80
NC81 NC83 NC84 NC92 NC93 ND01 NH69 NH79 NH89

Ravens Rock Gorge	NC498011	woodland	12/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Beg E side	NC850412	crags	15/07/2011
Creag Dhubh	NC800390	rocks	15/07/2011
Ben Griam Mor W crags	NC800380	crags	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Coire na Saidhe Duibhe	NC689285	crags	12/07/2013
Coire na Saidhe Duibhe	NC695282	crags	12/07/2013
Creag Mhor Ben Armine	NC702238	crags	12/07/2013
Ben Bhraggie	NC817007	heather	11/05/2015

Rubus odoratus L. *Purple-flowered Raspberry*

• n 6

This is a purple-flowered, thicket-forming garden plant with broad, five-toothed leaves.

Rubus idaeus L. *Raspberry*

n 6

Woods, hedges, heaths and waste ground. Frequent in the eastern lowlands.

NC30 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC62 NC63 NC70 NC71 NC74 NC80
NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churhyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Station	NC582038	railway	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Golspie Station	NH825997	railway	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora Station	NC906041	railway	11/04/2010
Clashmore	NH747895	village	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
North Lodge Rosehall	NC479018	ruined walls	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Camore	NH778903	council houses	12/07/2010
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Rosehall Church	NC485012	churhyard	10/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Tower Farm Golspie	NC835011	roadside	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
East Clyde	NC893062	stream	12/05/2011
Clynekirkton ruins	NC894060	churhyard	12/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Dalchalm	NC909056	village	12/05/2011
A9 verge S of Lothbeg	NC941098	roadside	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Helmsdale Riverside	ND026154	woodland	08/05/2011
Helmsdale Church	ND026155	churhyard	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Free Church Migdale	NH626921	churhyard	07/05/2011

Rhianrivach	NH629929	hamlet	13/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
etc.			

[Rubus cockburnianus Hemsl. *White-stemmed Bramble*]

• n 6

Rubus thibetianus auct., non Franchet

A common white-stemmed garden plant, occasionally found as an outcast on waste ground where it can be long-persistent.

Rubus fruticosus agg. *Brambles*

n 5

The small number of people who are expert at naming brambles are called “batologists”. The problem with bramble taxonomy is that the plants are apomictic; that is to say, they produce seeds without sex. Each seed carries a carbon copy of the genotype of its mother. This means that when any non-lethal mutants arise, they can persist, often in a geographically very limited area, for a long time. In principle, therefore, each genetically distinct bramble clone might aspire, one day, to have its own name. At present, there are about 400 named taxa in the British Isles. As an aggregate, brambles are widespread and frequent, but the microspecies are under-worked.

NC30 NC40 NC42 NC50 NC51 NC60 NC70 NC80 NC90 NC91 NC92 ND01 NH59 NH68 NH69
NH78 NH79 NH88 NH89

Rubus furvicolor

n 6

NH89

Rubus latifolius

Often abundant near the coast.

NC80 NC90 NH79

Rubus leptothyrsos

Heaths and wood borders.

NH89

Rubus mucronulatus

Woods and hedge banks.

NC80 NH78 NH79 NH89

Rubus septentrionalis

Widespread and common in many habitats, including open woods, heath margins and river banks.
NC70 NC90 NC91 NH79 NH89

Rubus plicatus Weihe and Nees

Dry sandy soils; one of the commonest heathland brambles. Probably under-recorded.

NH89

Rubus laciniatus Willd.

A common garden escape, known at once by its dissected leaflets (laciniate).

NC80

Clashmore	NH747895	village	10/07/2010
Longuish Road Junction	NH644919	waste ground	10/07/2010
Borrobol Lodge	NC871264	estate woods	13/07/2011
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

[Rubus armeniicus Focke]

• n 6

Rubus procerus auct. brit., non P.J. Müller ex Boulay

This is the commonest large bramble on waste land in towns. Railway embankments, ditches, rubbish tips and hedges. The fruit is perhaps the tastiest of all the brambles. Known by its leaves which are dark green above but chalky white-felted beneath, with large (> 10cm) terminal leaflets. It has been cultivated as Himalayan Giant for more than 100 years, but there is no good evidence that the plant originates from the Himalaya. It is close to a German plant called 'Theodore Reimers' which Edees and Newton speculate was exported to the United States, where it was widely propagated and given the name Himalayan Giant for no particularly good reason, then exported back to European nurseries under this name. Much planted on allotments during the 1939-45 World War, and escaping frequently from them, via birds and urchins, onto waste ground nearby.

[Rubus ulmifolius Schott]

n 8

Rubus inermis sensu A. Beek et auct., non Pourret

Grows in full sun; this is the commonest bramble of open grassland, waste ground and hedgerows. The plant has red stems and the leaves are white-felted beneath. The terminal leaf lobe is smaller (less than 10cm) than in *R. armeniicus*. Very late-flowering.

This is an unusual bramble in that it is not apomictic; it produces seeds by normal sexual reproduction involving reduction division (meiosis) and fertilisation. This means that unlike most apomictic brambles, the parents and offspring are not identical, and so the species is actually rather variable (there are 20 named subspecies and 92 named varieties). However, because of the breeding system, these represent diploid recombinations and are hence without any taxonomic justification.

Recorded from Inverness.

Rubus radula Weihe ex Boenn.

n 7

Woods, heaths and hedgerows.

NC91 NH89

*Section C. Caesii***Rubus caesius** L. *Dewberry*

n 5

Dry and damp woods, hedges and heaths; locally frequent. Fruit composed of just a few loosely-packed drupes each with a conspicuous bloom on the surface; leaflets only 3.

NC90 NH79

Potentilla fruticosa L. *Shrubby Cinquefoil*

• n 6

A common garden plant of shrubberies and borders, much used in municipal landscaping schemes; usually with yellow flowers but occasionally with white or other colours. Occasionally self-seeding with us, typically on pavements near houses, but more often found as a garden outcast. The records below are of apparently self-sown seedling plants.

Garvault Hotel	NC782386	wast ground	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
back of dunes Brora	NC909036	sand dunes	09/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Clashmore	NH747895	village	08/05/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
Dalchalm	NC911059	hamlet	19/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Lairg	NC579068	bungalows	10/05/2015
Brora Golf Club	NC909039	suburbia	27/06/2014
River Street Dornoch	NH799893	bungalows	17/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
West Helmsdale	ND020154	hamlet	14/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

Potentilla anserina L. *Silverweed*

hr 6

Riversides, dune slacks, shores, farmyards, waysides, waste ground in towns, commons, damp woodland rides, margins of ponds, clayey cornfields. Widespread and common in the lowlands.

NC30 NC40 NC50 NC51 NC60 NC70 NC74 NC80 NC81 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Loch Migdale N shore	NH632916	loch side	10/07/2010
Coul Links	NH805946	dune slacks	11/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Dunrobin Castle	NC849005	coastal grassland	11/07/2010
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Astle	NH745919	hamlet	10/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
Balblair saltmarsh Loch Fleet	NH804973	salt marsh	08/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
S Embo links	NH815920	links	14/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
Drumlich	NH608931	ruined croft	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Burnside	NH609926	lane	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Opposite Achnagart	NH540980	marsh	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	sand dunes	14/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Dornoch Stream	NH803889	streamside	20/05/2012
Royal Dornoch quarry	NH806895	quarry	20/05/2012
R. Oykel N Bank Lubcroy	NC359018	riverbank	19/05/2012
Embo dune slacks	NH815933	dune slacks	18/05/2012
Littleferry	NH806956	hamlet	07/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Coul Links	NH804948	dune slacks	04/07/2013
Coul Links	NH805953	shingle beach	04/07/2013
Dornoch Lochans Davochfin	NH777889	lochans	04/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Loch Fleet at Balblair Wood	NC804975	edge of salt marsh	07/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013

Bardnabeinne
etc.

NH714904

hamlet

11/07/2013

NVC: M 22,24,27; MG 6,9,10,13; OV 4,9,21,26,28-32; S 19,23,26; SD1, 2, 8, 10, 14-17; SM19, 20, 24, 28

Potentilla rupestris L. *Rock Cinquefoil*

? • hr 6



Potentilla rupestris luirig.altervista.org



Potentilla rupestris on Migdale rock 20th June 2006 Peter Llewellyn

A local speciality, and one of the rarest plants of East Sutherland. Rocky outcrops at Migdale and Marian's Rock. In other parts of the country, this is an uncommon, white-flowered rock-garden plant, seldom seen outside gardens. It is curious that it should be restricted to outcrops so accessible, and so close to the Highland Tour route that was popular in Victorian times. It has all the hallmarks of an intentional introduction (much like the 'Inchnadamph Zoo' in West Sutherland, or the 'Angus Rarities').

NC70 NH69

Marian's Rock	NC747013	25/06/76	Ratcliffe, Dr D.A.
Marian's Rock	NC748013	21/05/82	Angus, Mr S., Tilbrook, Mr P.J.
Marian's Rock	NC748013	17/05/85	Farrell, Miss L.
Marian's Rock	NC748013	23/05/93	Eaglesfield, R., Murray, Mrs M.E.
Marian's Rock	NC748013	26/05/94	Symonds, F.
Marian's Rock	NC748012	04/06/03	McHaffie, Dr H.S.
Migdale Rock	NH650907	16/05/61	Ratcliffe, Dr D.A.
Migdale Rock	NH649908	17/05/81	Butler, Mr J.K.
Migdale Rock	NH648908	12/05/82	Angus, Mr S., MacIennan, S.
Migdale Rock	NH648908	18/05/82	Stirling, Mr A.M., Mitchell, Mr J.
Migdale Rock	NH649908	17/05/85	Farrell, Miss L.
Migdale Rock	NH646908	22/05/92	Lusby, Mr P.S.
Migdale Rock	NH649908	23/05/93	Eaglesfield, R., Murray, Mrs M.E.
Migdale Rock	NH648907	06/06/03	McHaffie, Dr H.S.
Marian's Rock	NC747012	cliff	13/05/2011 (5 plants)

Migdale Rock NH649908 cliff not seen (droughted) in May 2011



Migdale Rocks. These dry, south-facing cliffs are home to several of Sutherland's rarest plants, including *Potentilla rupestris*, *Ajuga pyramidalis* and *Saxifraga granulata*.

[**Potentilla argentea** L. *Hoary Cinquefoil*]

hs 6

Recorded from the Moray coast.

Potentilla recta L. *Sulphur Cinquefoil*

● hs 6

A garden-escape of roadsides, banks and waste ground on dry, acid soil. Very local.

Helmsdale Main Street	ND027153	street	06/04/2010
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Loth Station Cottage	NC957100	hamlet	18/06/2015

Potentilla erecta (L.) Räschel *Tormentil*

hs 6

Tormentilla erecta L.

Potentilla erecta subsp. **erecta**

One of Scotland's commonest wildflowers. Acid grasslands, heaths, dry pastures, hedge-banks and dry woodland rides; locally common and widely distributed,

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2; H 2,3; M 13,16,21,22,24; MG 5,9; OV 27; U 1,2,20; W 4,16,23,25; SD12; MC8, 12

Potentilla erecta subsp. **strictissima** (Zimmeter) A.J. Richards

A more robust plant with more coarsely toothed leaves; the uppermost leaf 12-30mm (not 6-16mm) with leaf teeth more than 1.5mm, and fruiting pedicels 20-50mm (not 6-30mm). Local in the uplands.

NC41 NC42 NC43 NC52 NC61

[**Potentilla anglica** Laichard. *Trailing Tormentil*] hs 6
Potentilla procumbens Sibth., nom. illegit.

This species arose by hybridisation associated with chromosome doubling; its parent species *P. erecta* and *P. reptans* both have 28 chromosomes, and *P. anglica* has 56. Told from *P. erecta* by some flowers with 5 petals (not all 4-petalled), carpels > 20, lower stem leaves with long petioles, > 10mm. Much over-recorded for *P. x mixta*, which has few if any swollen achenes (it is a sterile hybrid) and all petioles the same length - not decreasing markedly as in *P. anglica*.

Recorded from the Moray coast.

NVC: MG 4

Potentilla reptans L. *Creeping Cinquefoil* hr 6

Farmyards, verges, trampled ground, hedge-banks, wood margins, roadsides, cornfields, pastures, heaths and waste ground in towns in a range of dry, sunny situations. Local and rare in the lowlands.

NC60 NC70

Longuish Road Junction	NH644919	waste ground	10/07/2010
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Balvalaich Kildonan	NC942189	streamside	05/07/2013
N of Braemore Grudie Burn	NC548031	inbye grassland	24/06/2014

NVC: CG 3; M 22, 24, 27; MG 1, 5, 6; OV 19, 22-25; S 18; U 1; SD9, 15; MC4, 11

Potentilla sterilis (L.) Garcke *Barren Strawberry* hs 2
Fragaria sterilis L.

Dry woods, hedge-banks, shaded grassland, heaths. Also on stone graves in churchyards and on the base of limestone walls. Told from *Fragaria vesca* by the leaves, in which the terminal tooth is noticeably smaller than the adjacent teeth (not the same size), and by its earlier flowering time. Local and rare in the lowlands.

NC70 NC71 NC74 NH69 NH79

Strath Oykel	NH496999	riverbank	12/05/2015
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NVC: W 8, 10, 21, 24

Potentilla crantzii (Crantz) Beck ex Frisch *Alpine Cinquefoil*

hr 6

A local speciality. Rock ledges in the mountains. Very local and rare.

NC31 NC84

Ben Griam Mor NC790390 1977 Derek Ratcliffe

Ben Griam Beg NC840441 1977 Derek Ratcliffe

NVC: CG9-14, U17

[**Potentilla tabernaemontani** Asch. *Spring Cinquefoil*]

hr 4

Potentilla verna auct. non L.

Recorded from Easter Ross. Long vegetative shoots, rooting and mat-forming, and flowers less than 15mm across, separates this from *P. crantzii*. The habitats, too, are distinctive. This is a plant of dry, basic grasslands.

Comarum palustre L. *Marsh Cinquefoil*

hel 5

Potentilla palustris (L.) Scop

Bogs, floating fens, wet woodlands and marshes. Widespread and common, but less frequent towards the west.

NC33 NC40 NC41 NC42 NC50 NC51 NC60 NC61 NC63 NC70 NC71 NC72 NC73 NC74 NC80
NC81 NC82 NC83 NC91 NH59 NH68 NH69 NH78 NH79 NH89

Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Loch Brora Birchwoods	NC856080	stony shore	08/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Inveran	NH560970	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Strath Carnaig	NH716982	birch wood	18/05/2012

Embo Muir	NH802936	swamp	04/07/2013
Tulloch	NH618932	bog	09/07/2013
Loch Buidhe inflow delta	NH652983	loch shore	25/06/2014
Loch Fleet	NH773962	ditch	29/06/2014
Doll Ford Bridge	NC870044	riverbank	11/05/2015
Loch Ascaig Borrobol	NC857252	loch side	15/06/2015
Loch Molach	NC721422	wet heath	16/06/2015
Loch Preas nan Sgiathanach	NC678089	loch side	13/06/2015

NVC: M 22,27; S 2-4,8,10-12,25; W 1,4

Sibbaldia procumbens L. *Sibbaldia*
Potentilla sibbaldii Haller f.

hr 6



Sibbaldia procumbens Leif & Anita Stridvall

Grassy and rocky places above 470m. Mountains in the west; locally frequent.

Ben More Assynt

15/08/1964 D.A. Ratcliffe

NC31 NC32 NC33 NC43 NC52 NC63

Garbh Coire Conival	NC307194		11/07/1998	Gordon Rothero
Ben More Assynt summit	NC320201		12/07/1998	Gordon Rothero
Ben More/Conival ridge	NC307201		12/07/1998	Gordon Rothero
Coire Mhadaidh Conival	NC3031020790	flush	10/08/2012	Gordon Rothero
Coire Mhadaidh Conival	NC3075020340	fush	10/08/2012	Gordon Rothero

NVC: CG 10-12; U 10, 11, 13 14, 18

Fragaria vesca L. *Wild Strawberry*

hr 4

Dry woods, hedges, calcareous grassland, railway banks, and rarely on walls. Told from garden strawberries by the fact that the pips (achenes) stand proud from the surface (not sunken in pits as in commercial strawberries). Even though the leaves are hairy on the upper-side, they look glossy. The flowers are bisexual and the hairs on the pedicle are upswept so that they point towards the strawberry. Told from *Potentilla sterilis* by the terminal leaf tooth being the same size as (not smaller than) the adjacent teeth. I am a bit surprised that the genus *Fragaria* survived the new phylogeny; the traits of *Fragaria* appear to sit comfortably within the range of *Potentilla*. Widespread and locally frequent.

NC30 NC31 NC40 NC41 NC50 NC51 NC60 NC70 NC71 NC74 NC80 NC83 NC91 NC92 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Little Rogart	NC732041	hamlet	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
East Clyne	NC893062	stream	12/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Astle	NH745919	hamlet	10/05/2011
Mound Rock mid slope	NH779985	bracken	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Clashmore	NH747895	village	11/09/2012
Rhemusaig Quarry Rogart	NC731020	abandoned quarry	10/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Badfluich Turning	NC505015	conifer plantation	19/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Gartymore	ND013143	hamlet	05/05/2013
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
Clashmore	NH747895	village	08/05/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Craggie Bridge	NC913192	rocky stream	20/06/2015
Ben Bhraggie summit quarry	NC814010	rocks	11/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

NVC: CG 2; W 8,10,12,13,21,24

Fragaria moschata (Duchesne) Weston *Hautbois Strawberry*

• hr 5

Fragaria vesca L. taxon *moschata* Duchesne

Fragaria muricata sensu D.H. Kent, non L. nec Miller

Hedge-banks, very rare. The leaves are dull (not shiny) on the upper side, and the top-most pedicels have many spreading hairs at fruiting. Possibly under-recorded.

Fragaria ananassa (Duchesne) Duchesne *Garden Strawberry*

• hr 5

Fragaria vesca L. taxon *ananassa* Duchesne

This is an escape from cultivation, occasionally found in a semi-wild state on hedge-banks or railway banks. The leaflets are glabrous on the upperside, and the strawberries > 15mm wide, with the achenes sunken in pits in the surface of the strawberry.

Merkland Lodge	NC400296	hamlet	13/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Well Street Dornoch	NH799893	cottages	04/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Pittentrail	NC726019	village	10/05/2015
Clashmore	NH745895	hamlet	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015

Fragaria 'Pink Panda'

• hr 5

A popular garden plant, found occasionally as an outcast. This is a patented hybrid that is the result of crossing the Marsh Cinquefoil, *Comarum palustre* and the Beach Strawberry, *Fragaria chiloensis*, followed by backcrossing to strawberry.

Muie	NC669044	hamlet	13/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Loth Station Cottage	NC957100	hamlet	18/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Muie	NC669044	hamlet	12/06/2015

Geum rivale L. *Water Avens*

hs 5

Wet shady places in ditches and woods. Widespread and locally frequent. Sometimes grown in gardens, presumably from wild-collected material.

NC30 NC31 NC32 NC33 NC40 NC41 NC43 NC50 NC52 NC60 NC61 NC62 NC63 NC70 NC71
NC72 NC74 NC80 NC83 NC84 NC90 NC91 NC92 NH59 NH68 NH69 NH78 NH79 NH89

Ravens Rock Gorge	NC498011	woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Pittentrail	NC727020	woodland	12/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Ben Griam Mor W crags	NC800380	crag	15/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Doire Dubh	NC365327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Big Burn Golspie	NC840091	woodland	05/05/2013
Loch Brora	NC856790	stream bank	05/05/2013
Gruids Mill	NC577337	wet woodland	06/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Arscaig Birch Wood	NC505143	birch wood	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
PROSAMO sites Sallachy	NC560656	birch wood	02/07/2013
Meall an Fheur Loch	NC362316	crag	08/07/2013
Coill' an Tosgaire Oykel	NC344500	birch wood	09/07/2013
R Evelix at Achosnich	NH729935	wooded riverbank	09/07/2013
Clashban	NH643964	hamlet	12/05/2015
Golspie Big Burn railway	NC840007	woodland	10/05/2015
Laundry Road Lairg	NC586063	industrial	12/06/2015
Allt Cragaidh Gordonbush	NC856092	waterfalls	15/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

NVC: M 27; W 8

Geum x intermedium Ehrh. *Hybrid Avens* = **G. rivale x G. urbanum**

Intermediate in all respects and highly fertile, forming a complete spectrum between the parents. Local and infrequently recorded. No recent records.

NC50

Geum urbanum L. *Wood Avens*

hs 6

Woods, thickets and hedges in shade, and in shady gardens and waste ground. Frequent in the eastern lowlands.

NC40 NC50 NC63 NC80 NC90 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Big Burn Golspie	NC840009	woodland	07/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Skibo Castle	NH732892	parkland	09/05/2011
Mound Rock	NH770980	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Back Street Helmsdale	ND026153	alley	09/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Shin Creek Achany	NC574001	woodland	16/05/2012
Backies Curling Pond	NC839012	woodland	05/05/2013
Big Burn Golspie	NC840091	woodland	05/05/2013
Gruids Mill	NC577337	wet woodland	06/05/2013
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Pittentrail	NC726019	village	10/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

NVC: W 6,8,12,14,21,22,24

Geum quellyon Sweet

Red Avens

• h 6

Geum chilense Balb. Ex Ser. nom. inval.

Geum coccineum Sibth. & Sm.

An uncommon garden plant, rare as an outcast. This is the commonest red-flowered avens of cultivation.

Clashmore	NH747895	village	10/07/2010
Braefoot Portgower	ND010135	railway	11/07/2010
North Brae Brora	NC906040	terrace	08/05/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
High Street Lairg	NC584632	village	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Sutherland St. Helmsdale	ND027154	village	17/06/2015
Macdonald Place	NC721022	council houses	12/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

Geum 'Queen of Orange'

Orange Avens

• h 6

A popular garden cultivar, occasionally found as an outcast.

Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
N Portgower	ND013137	roadside	08/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011

Agrimonia eupatoria L. *Agrimony*

hs 6

Rocky scrub; very local and rare.

The Mound		15/08/1961	M. McC. Webster
The Mound Crags	NH762983	crags	12/05/2015

NVC: CG 2,3; MG 1,5,9; OV 18

Agrimonia procera Wallr. *Fragrant Agrimony*

hs 6

Agrimonia odorata auct., non (L.) Miller

Agrimonia repens sensu De Langhe et al., non L.

Much less common than *A. eupatoria*, and over-recorded in the past, probably because the possession of scented leaves is not a good character (some *A. eupatoria* genotypes have fragrant foliage). The fruiting hypanthium is bell shaped with diverging sides (rather than obconical with roughly parallel sides as in *A. eupatoria*), and the lowest rank of barbs on the fruit are reflexed (pointing downwards) rather than patent (pointing outwards and slightly upwards). The record (below) requires confirmation; *A. eupatoria* is the more likely species.

Cambusmore 01/12/1974 J.E. Kirby

NH79

[*Poterium sanguisorba* L.] hs 5
Sanguisorba minor Scop.

[*Poterium sanguisorba* subsp. *sanguisorba* *Salad Burnet*]
Sanguisorba minor subsp. *minor*

Recorded from the Moray coast.

[*Poterium sanguisorba* subsp. *balearicum* (Bourg. Ex Nyman) Stace *Fodder Burnet*] • hs 5
Sanguisorba muricata Greml
Poterium polygamum Waldst. & Kit.
Poterium muricatum Spach, nom. illegit.
Sanguisorba minor Scop. subsp. *polygama* (Waldst. & Kit.) Holub
Sanguisorba minor subsp. *muricata* (Greml) Briq

This is the Burnet that is a common component of wildflower mixtures, because it is cheap to buy in Eastern Europe where it is grown as a fodder crop. It is sold as if it were Salad Burnet at a vast profit. Told from subsp. *minor* by its fruits which have undulate wings on the angles, and by its larger size and more deeply toothed leaflets.

Recorded from the Moray coast.

Acaena anserinifolia* (J.R. & G. Forst.) Druce *Bronze Pirri-pirri-bur • chw 6

Sand dunes on the east coast. Local and rare. This is the plant with blue rather than bronze leaves. This record requires confirmation (see below).

Cambusmore 15/07/1962 BSBI

NH79

Acaena novae-zelandiae* Kirk *Pirri-pirri-bur • chw 6

Garden escapes, not recorded from semi-natural habitats. This is the plant with blue rather than bronze leaves.

Bonar Bridge NH611911 suburbia 12/07/2010
 Macdonald Place Pittentrail NC722022 council houses 10/05/2011

Acaena inermis Hook.f. *Spineless Acaena*

• chw 6

Acaena microphylla auct., non J.D. Hook.

Acaena microphylla J.D. Hook. var. *inermis* (J.D. Hook.) Kirk

The spines on the hypanthium are unbarbed or absent, and the apical pair of leaflets are almost circular in outline (as long as broad). *Acaena inermis* 'Purpurea' is the most commonly grown from. The recent records are of garden escapes.

NH79

Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Alchemilla alpina L. *Alpine Lady's-mantle*

hs 6

Grassland, scree and rock crevices on the mountains. Widespread, but more abundant in the west. Leaves divided all the way to the base, and the leaflets less than 6mm wide. The look-alike garden plant is *A. conjuncta* (below).

Ben Griam Mor	15/07/1962	JA
Ben Hee	15/08/1964	D.A. Ratcliffe
Ben More Assynt	15/08/1964	D.A. Ratcliffe
Carn Dearg	15/07/1973	A.G. Kenneth
Meallan a Chuail	15/07/1973	A.G. Kenneth

NC31 NC32 NC33 NC42 NC43 NC52 NC62 NC63 NC72 NC73 NC83 NC84 NC91 NH49 NH59
NH78

Halmadarie Burn	NC697302	rocky stream	20/06/2011
W summit Ben Gram Mor	NC800390	gravel	21/06/2011
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Ben Griam Mor summit	NC803389	dry heath	21/06/2011
Ben Griam Mor NW-facing	NC797395	crag	21/06/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Ben Hee	NC422337	mountain ridge	13/07/2011
Ben Hee	NC420320	mountain ridge	13/07/2011
Ben Hee	NC424338	mountain ridge	13/07/2011
Ben Griam Beg E side	NC830400	dry ridge	15/07/2011
Ben Griam Mor W crags	NC800380	crag	15/07/2011
Ben Griam Mor SW crags	NC800380	crag	15/07/2011
Creag Dhubh	NC800390	crag	15/07/2011
Ben Griam Beg	NC830410	mountain ridge	15/07/2011
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Ben Uarie upper slope	NC930163	heather	09/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012

Doire Dubh	NC365326	streamside	08/09/2012
Doire Dubh	NC368324	dripping cliff	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Sron Lom Glen Cassley	NC358208	crag	03/07/2013
Doire Dubh Loch Merkland	NC365326	crag	08/07/2013
Doire Dubh Loch Merkland	NC365325	flushed grassland	08/07/2013
Meall an Fheur Loch	NC365319	wet heath	08/07/2013
Meall an Fheur Loch	NC362316	crag	08/07/2013
Meall an Fheur Loch	NC359310	Racomitrium	08/07/2013
Meall an Fheur Loch	NC360318	summit heath	08/07/2013
Beinn an Eoin summit	NC389082	cairn	28/06/2014
Ben Hee E flank	NC438335	crag	26/06/2014
Ben Hee NE slope	NC420330	upland	29/05/2014
Beinn Mhealaich Glen Loth	NC956152	steep heather	18/06/2015

NVC: CG10-12, 14, U9-13, 14, 15, 18

Alchemilla conjuncta Bab. *Silver Lady's-mantle* • hs 6

Told from *A. alpina* by the leaves not divided all the way to the base, and the leaflets more than 6mm wide. Found as a garden escape near houses, or as a relic in abandoned gardens

Duchally Lodge	NC388166	riverbank	10/05/2011
N Brora	NC904051	bungalows	12/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Grange Road Dornoch	NH800896	village	29/06/2014
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015

Alchemilla xanthochlora Rothm. *Pale Lady's-mantle* hs 6

Local and rare. Leaves glabrous on the upper side, and leaf robes rounded with equal teeth.

NH78

Ben Griam Mor	NC808390	crag	15/07/2011	Pugh, Youngman, Pankhurst & McIntosh
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Alchemilla filicaulis Buser *Hairy Lady's-mantle* hs 6
Alchemilla filicaulis subsp. **filicaulis**

Mountain grasslands. Locally frequent. Pedicels glabrous.

Ben Griam Mor	15/08/1962	M. McC. Webster
Carn Dearg	15/07/1973	A.G. Kenneth

NC30 NC31 NC32 NC33 NC51 NC52 NC60 NC62 NC70 NC71 NC73 NC74 NC80 NC83 NC91
ND01 NH59 NH69 NH79

Torboll Farm NW	NH740990	grass	11/07/2011	McIntosh, Marriott & Borradaile
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NVC: CG10, 11

Alchemilla filicaulis subsp. **vestita** (Buser) M.E. Bradshaw
Alchemilla colorata auct., non Buser
Alchemilla vestita (Buser) Raunk.
Alchemilla hybrida F.W. Schmidt subsp. *vestita* (Buser) O. Bolòs and Vigo
Alchemilla vulgaris L.

The upper part of the stem and the whole of the inflorescence is rather densely hairy, and the stem base and petiole bases are tinged wine red. Grasslands, occasional.

Glen Rock Dunrobin Glen	15/08/1976	Michael Marshall
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NC30 NC31 NC32 NC51 NC60 NC70 NC71 NC73 NC74 NC80 NC83 NC91 NH69 NH79

Ben Griam Mor N-facing rocks	NC802389	crag	21/06/2011
Abhainn an t-Sratha	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Creag Dhubh on Ben Griam Mor	NC800390	composite	15/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Ben Uarie mid slope	NC929160	heather	09/09/2012
Beinn a' Mhadaidh lower S slope	NC768409	wet heath	18/06/2015
Allt Cragaidh Gordonbush	NC864103	rushy stream	15/05/2015
Col-bheinn S slope	NC879100	springs and flushes	15/05/2015
Beinn Mhealaich Glen Loth	NC956152	steep heather	18/06/2015

NVC: CG10, 11, 12, 14, U14, 17

Alchemilla glomerulans Buser *Clustered Lady's-mantle* hs 6

On rock ledges in the mountains. Very local and rare. Stems hairy to the top, and leaves hairy above.

Creag na h'Uidhe	15/06/1973	A.G. Kenneth det. S.M. Walters
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NC33

Alchemilla wichurae (Buser) Stefansson *Rock Lady's-mantle* hs 6

Mountain grassland. Ben More Assynt, etc. Local and occasional. Leaf lobes un-toothed at the base of the sinus for a distance of at least 2 teeth.

Ben More Assynt		15/08/1964	D.A. Ratcliffe
Creag na h'Uidhe		15/06/1973	A.G. Kenneth det. S.M. Walters
Coire a' Mhadaidh	NC305209	12/07/1998	Gordon Rothero

NC31 NC32 NC33 NC52

NVC: CG10, 11

Alchemilla glabra Neygenf. *Smooth Lady's-mantle*

hs 6

Alchemilla obtuse auct. non Buser

Grasslands. Widespread and locally frequent. This is our common Lady's-mantle. Leaf lobes toothed to the base of the sinus.

NC30 NC31 NC32 NC33 NC40 NC42 NC50 NC51 NC52 NC60 NC62 NC70 NC71 NC80 NC81
NC83 NC90 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
Tower Farm Golspie	NC835011	roadside	09/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Astle	NH745919	hamlet	10/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Tulloch	NH613925	ditch	09/07/2011
Birichen	NH765923	roadside	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
E of Invercassley	NC466011	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Hill of Ord Lairg	NC577055	plantation	15/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Greenwood E Rosehall	NC481017	hamlet	19/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Glen Sletdale Bridge	NC937127	bracken	01/07/2013

Loch Front Lairg	NC581062	loch shore	02/07/2013
R Brora W of Braeग्रुdie	NC712103	riverbank	07/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Achvaich	NH710941	riverbank	09/07/2013
Railway Golspie Big Burn	NC840007	woodland	10/05/2015
Strath Oykel	NH496999	riverbank	12/05/2015
Ben Bhraggie Wood	NC818007	conifer plantation	11/05/2015
Muie	NC669044	hamlet	12/06/2015

NVC: MG3, CG10, 14; U13-17

Alchemilla mollis (Buser) Rothm. *Garden Lady's-mantle*
Alchemilla acutiloba Opiz var. *mollis* Buser

• hs 6

An ubiquitous cottage garden plant, a self-seeding like no other, and very commonly naturalised in paving, on walls and bare waste ground. Occasionally persisting in grass, but intolerant of shade. In towns and villages throughout.

Helmsdale Main Street	ND027153	street	06/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora SW	NC901038	waste ground	11/04/2010
Clashmore	NH747895	village	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Bonar Bridge Swordale	NH611915	council houses	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Lothmore Church	NC971113	churchyard	11/07/2010
Loth Station Cottage	NC959101	cottages	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Rosehall	NC470021	village	12/07/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011

Achnairn Shinness	NC555128	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kildonan Church	NC910207	churchyard	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Rhianrivach	NH629929	hamlet	13/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Astle	NH745919	hamlet	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Littleferry Dunes	NH807957	sand dunes	08/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golf Course Golspie	NH826995	bungalows	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Rhinamain	NH610938	hamlet	18/06/2011
Craigton	NH627961	farmstead	18/06/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Preas nan Sgiathanach	NC684097	farmstead	22/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
E of Skelbo	NH800948	hamlet	23/06/2011
Embo	NH817928	village	23/06/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Brora Golf Course	NC910039	club house	23/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011

Embo Street Hilton	NH800913	hamlet	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
etc.			

Aphanes arvensis L. *Parsley-piert*
Alchemilla arvensis (L.) Scop.

th 4

Dry sandy arable fields, short grassland, banks, walls in villages. Care is needed to separate this from *A. australis*; the fruiting hypanthium is bigger (>2mm), and the sepals (0.6-0.8mm) are not converging (they may be upright or spreading). The whole fruit gives the jizz of having a “waist” beneath the teeth (i.e. it is not barrel-shaped). Local and occasional.

NC41 NC51 NC52 NC70 NC81 NC91 NC92 ND01 NH59 NH78 NH79 NH89

Criagan Mora Achormlarie	NH701949	compacted ground	13/07/2010
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Deans Park Dornoch	NH791896	new housing	18/06/2011
Kinbrace Burn	NC872285	hamlet	19/06/2011
Skibo Golf Sheds	NH732872	waste ground	16/05/2012

NVC: OV 7,9,10,12,21,39; U 1

Aphanes australis Rydb. *Slender Parsley-piert*
Alchemilla microcarpa auct., non Boiss. & Reuter
Aphanes microcarpa auct., non (Boiss. & Reuter) Rothm.
Aphanes inexpectata Lippert

th 4

Dry acid grassland, arable fields and compacted ground like cinder paths. Rarely on base rich soils and less common than *A. arvensis* on arable land. The fruiting nodes have stipules with their teeth as long as the entire portion. It is hard to tell the two species apart in the field; you really need to measure the fruiting hypanthium under a microscope. Including the converging sepals (0.3-0.5mm), it is less than 2mm long. The whole fruit gives the jizz of a barrel, with no waist beneath the teeth (sepal length is not a reliable character with us). This is the more frequent and widespread of the two species with us.

NC40 NC42 NC50 NC51 NC60 NC70 NC71 NC73 NC80 NC81 NC82 NC83 NC84 NC90 NC91
 NC92 ND01 NH69 NH78 NH79 NH88 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
East Kinnauld Quarry	NC743014	quarry	13/05/2011

Marians Rock	NC747012	cliff	13/05/2011
Kildonan Station	NC901217	railway	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Dalchalm	NC909056	village	12/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Balvraid Wood	NH775940	plantation	09/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Navidale House Hotel	ND039158	sea cliff	07/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Brora Industrial Estate	NC905041	waste ground	07/05/2013
Hilton	NH804915	hamlet	04/07/2013
Achosnich	NH727943	track	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Oykel Bridge v.c. 107 bank	NC385009	riverbank	12/05/2015
Kinbrace Cemetery	NC859313	cemetery	16/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015
Pittentrail	NC726019	village	10/05/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015
S Brora	NC901032	coastal grassland	14/06/2015
Balblair	NH799973	hamlet	12/06/2015

NVC: OV 1,3,5, 11

Rosa *Wild Roses*

Roses are difficult because of their breeding system and the extent of hybridization. A pentaploid rose has 35 chromosomes, 14 paired and 21 univalents (a diploid complement (2 x 7) plus 3 sets of 7 unpaired chromosomes). Since it is only the paired chromosomes that can take part in meiosis (reduction division), the 21 univalents are lost during pollen formation. They are maintained, however, in the female line, so mother contributes 28 chromosomes (7 + 21) and father provides 7 chromosomes (1 from each pair), restoring the pentaploid complement of 35. Old floras recognized masses of varieties and few hybrids, but modern treatments emphasise the prevalence of hybrids and recognize few varieties (Graham and Primavesi 1993). The Dog Roses, *R. canina* and *R. caesia*, are

particularly variable and hard to identify. The *Rosa* flora of vc. 107 is still poorly known, and much work remains to be done. These records are for Dog Roses in aggregate:

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC60 NC62 NC63 NC70 NC71 NC73 NC80
NC81 NC82 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Rosa spinosissima L. *Burnet Rose*
Rosa pimpinellifolia L.

n 5

Dunes and sandy heaths. Frequent along the coast. Rare on mountain crags.

NC60 NC70 NC71 NC80 NC81 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Embo Links	NH816932	dune slacks	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Dalchalm	NC909056	village	12/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
S Embo links	NH815920	links	14/05/2011
Embo Pier (derelict)	NH820921	sand dunes	09/05/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Clashmore	NH747895	village	11/09/2012
The Crask Inn	NC523246	garden	10/09/2012
back of dunes Brora	NC909036	sand dunes	09/09/2012
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Creag a'Bhodaich Sletdale	NC913135	rocky slope	01/07/2013
Coul Links	NH805951	heather dunes	04/07/2013
Coul Links	NH805952	sand dune	04/07/2013
Davochfin	NH785893	roadside	04/07/2013
R Evelix at Cuthill Bridge	NH748878	riverbank	04/07/2013
Torrish Burn Kildonan	NC969187	ravine birch wood	05/07/2013
Ben Horn E crags	NC810062	conglomerate	06/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Achvaich	NH710941	riverbank	09/07/2013
Embo Dunes	NH817932	high dunes	11/06/2015
Creag Thoraraidh Helmsdale	ND024174	lower screes	14/06/2015

NVC: W 8; SD 8, 9; OV 38

Rosa x magerisonii (Wolley-Dod) Wolley-Dod = ***R. spinosissima*** x ***R. caesia***

NC70 NC80 NC90

Rosa x involuta Sm. = ***R. spinosissima*** x ***R. sherardii***

Recorded from Easternness and the Moray coast.

Rosa x sabinii Woods = ***R. spinosissima*** x ***R. caesia***

NC70

[*Rosa x biturigensis* Boreau= *R. spinosissima* x *R. rubiginosa*]

Recorded from the Moray coast.

Rosa rugosa Thunb. *Japanese Rose*

• n 6

The commonest alien rose, much used in urban landscaping schemes and as a hedge plant in villages. Produces copious orange hips and often regenerates from seed on waste ground, but seldom far from houses or factories. Known at once by the high density of prickles on its stems, and its rugose leaves (glossy green, with deeply impressed veins). The commonest cultivars seen outside gardens are ‘Sarah Van Fleet’ (pale pink, double) and ‘Frau Dagmar Hartopp’ (clear silver pink, single), ‘Blanc Double de Coubert’ (double white) and ‘Alba’ (single white flowers), and ‘Rosaie de l’Hay’ (fragrant, semi-double with purplish-red flowers).

NC70

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churtyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Brora	NC910041	suburbia	11/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Drumlian Road Bonar Bridge	NH606924	council houses	12/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrai I	NC726020	village	12/05/2011
Rogart Church	NC738035	churtyard	12/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Astle	NH745919	hamlet	10/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Golspie	NH832998	sea front	08/05/2011

Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Clashmore	NH747895	village	11/09/2012
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Balclaggan	NC738046	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Kirkton	NC913207	hamlet	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Portgower	ND010135	hamlet	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Crackaig Crofts Lothmore	NC964111	ruins	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
Gartymore	ND013143	hamlet	05/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Embo	NH817928	village	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
High Street Lairg	NC584063	village	02/07/2013
Coul	NH801947	roadside	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Sleastary	NH643963	croft	09/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Kinbrace Station Cottage	NC862316	garden	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
North Brora	NC909044	bungalows	19/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015

Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Embo	NH816928	village	08/05/2015
Kirkton	NC913207	hamlet	09/05/2015
St Callan's Rogart	NC738035	hamlet	10/05/2015
Golspie S	NC824997	village	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Golspie	NC832000	village	08/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Pittentrail	NC726019	village	10/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Lairg	NC585063	village	10/05/2015
Lairg	NC581068	council houses	10/05/2015
Anderson Court Dornoch	NH791895	new housing	29/06/2014
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Navidale	ND037161	hamlet	14/06/2015
West Helmsdale	ND020154	hamlet	14/05/2015
Embo Dunes	NH817929	dune backs	11/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
Lonemore	NH764884	hamlet	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015
West Langwell	NC698088	hamlet	13/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Little Ferry	NH805956	hamlet	12/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
etc.			

White flowered cultivars at

High Street Lairg	NC584063	village	02/07/2013
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[**Rosa 'Hollandica'** *Dutch Rose*]

• n 6

Much used in the past as a rootstock for grafting other cultivars, and occasional as a garden outcast. Like *R. rugosa*, but with lighter green, matt, less bullate leaves.

Recorded from the Moray coast.

Rosa ferruginea Vill. *Red-leaved Rose*

• n 6

Rosa glauca Pourret

Rosa rubrifolia Villars, nom. illegit.

NC70

Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Camore	NH775903	bungalows	30/06/2013

High Street Lairg NC584063 village 02/07/2013

Rosa canina L. *Dog-rose*

n 6

Rosa corymbifera Borkh.

Rosa dumetorum auct., non Thuill.

Rosa lutetiana Léman

Rosa squarrosa auct., non (Rau) Boreau

Uncommon in vc. 107. Grassy banks, wood margins, hedges, thickets and scrub; generally distributed except on the peaty heaths. Our only common native rose; what follows relates to the species as a whole. Records for the different Groups within *R. canina* are given after the species account. Sometimes festooned with spectacular red galls of Robin's Pin Cushion (the 'Bedeguar' gall) which are caused by a cynipid wasp called *Diplolepis rosae*.

NC90 NC91 NH69

Not yet worked out in vc. 107, but no doubt much less common than *Rosa caesia*.

NVC: CG 3,4; W 5,6,8,10,12,21,22,24,25

Rosa canina is very variable, and current opinion (Graham and Primavesi, 1993) prescribes a pragmatic division into 4 reasonably clear cut groups, as follows:

1. Whole plant glabrous 2
1. Leaves sparsely hairy beneath, at least on the mid-vein Group **Pubescentes**
2. Leaflets uniserrate and eglandular Group **Lutetianae**
2. Leaflets biserrate or irregularly serrate, with small, scentless glands 3
3. Stipules densely fringed with small shining red glands Group **Dumales**
3. Stipules with some stipitate glands on the margin, leaf margins
irregularly uniserrate with alternating large and small teeth Group **Transitoriae**

Rosa x rothschildii Druce = **R. canina x R. sherardii**

NC50 NC92

[**Rosa x molletorum** Hesl.-Harr. = **R. canina x R. mollis**]

Recorded from the Moray coast.

Rosa caesia Sm. *Northern Dog-rose*

n 6

Rosa dumalis (auct. non Bechst.)

Both subspecies of *R. caesia* are recorded from vc. 107. They are told from *R. canina* by their persistent, upright (not reflexed) sepals and wider disc orifice (1/3 of disc width rather than 1/5). The sunny side of the twig is wine red. Margins of wood, scrub and roadsides, frequent in the east.

Rosa caesia subsp. **caesia** *Hairy Dog-rose*

n 6

Rosa coriifolia Fr.

Hedges, scrub and wood borders. Stems green and leaflets rugose, leaves not glaucous, but densely hairy beneath. Pedicels smooth, lacking stalked glands.

The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
River Street Dornoch	NH798895	bungalows	11/09/2012
Glen Rossal cattle grid	NC466036	roadside	03/07/2013
Hilton	NH804915	hamlet	04/07/2013
Coill' an Tosgaire Oykel	NC340051	wet heath	09/07/2013
Ospisdale	NH713898	roadside	11/07/2013

NC80 NC91 NH59 NH79

Rosa caesia subsp. **vosagiaca** (N.H.F. Desp.) D.H. Kent *Glaucous Dog-rose* n 6

Rosa afzeliana Fr. nom. illeg.

Rosa caesia subsp. glauca (Nyman) G.G. Graham and Primavesi

Rosa glauca Vill. ex Loisel, non Pourr.

Stems red and leaves not (or little) rugose, distinctly glaucous, leaflets folded down at the midrib, hairless beneath. Pedicels smooth, lacking stalked glands. Much the commoner of the two subspp. with us.

NC40 NC50 NC60 NC70 NC74 NC80 NC91 NC92 ND01 NH59 NH69 NH78 NH79

Dornoch Links E	NH790880	coastal grassland	14/07/2011 R. Pankhurst
Craggie road junction	NC744075	roadside	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Pittentrail	NC727017	roadside	02/07/2013
Glen Rossal cattle grid	NC466036	roadside	03/07/2013
Hilton	NH804915	hamlet	04/07/2013
Glashbuie North Brora	NC903053	derelict building	05/07/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Witches Pool RDGC	NH800892	pond	08/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Flood	NH712887	roadside	11/07/2013
Fiag Lodge	NC454281	waste ground	26/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Fiag Road	NC465210	roadside	26/06/2014

Rosa caesia x R. sherardii

NC50

Davochfin	NH778889	roadside	04/07/2013
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Rosa x dumalis Bechst. = **R. caesia x R. canina** n 6

Rosa x subcanina (H. Christ) Dalla Torre & Sarnth

Rosa x subcollina (H. Christ) Dalla Torre & Sarnth

Rosa canina L. x R. afzeliana Fries

One of the most frequent of the hybrid roses. Told from *Rosa canina* by the large elongated hips (24mm x 14mm) and the broad dome of hairy stigmas, and from *R. caesia* by the small orifice (1/5 rather than 1/3 of the width of the disc) and the reflexed (not upright) sepals which fall before the hip is ripe. Like *R. caesia*, the young twigs are wine-red on the sunlit side. The subspecies of *R. caesia* involved in the hybrid (see above) is inferred on the basis of leaf hairiness.

Golspie Sea Front N end	NH833998	terrace	06/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
R Evelix at Achosnich	NH729935	wooded riverbank	09/07/2013
Faranmore	NH630935	roadside	09/07/2013
Coill' an Tosgaire Oykel	NC344050	birch wood	09/07/2013
Rosehall	NC470022	village	09/07/2013
Badnellan	NC885045	hamlet	10/07/2013
Flood Bay	NH712882	coastal grassland	11/07/2013

Also recorded from the Moray coast.

[*Rosa x glaucoides* Wolley-Dod = *R. caesia* x *R. mollis*]

Recorded from Easternness.

[*Rosa caesia* x *R. rubiginosa*]

Recorded from Easternness and the Moray coast.

[*Rosa tomentosa* Sm. *Harsh Downy-rose*]

n 6

Rosa scabriuscula auct., non Smith

Hedges, thickets and open woods. Known by its small, almost spherical hips (1-2cm) and glandular pedicels, distinguished from *R. obtusifolia* by its longer, less hooked prickles and longer pedicels (more than 15mm). *R. sherardii* has a much wider orifice to the hip (1/3 to 1/2 of the width of the disc) and has woolly styles.

Recorded from Easternness and Moray coast.

Rosa sherardii Davies *Sherard's Downy-rose*

n 6

Rosa tomentosa Smith subsp. *sherardii* (Davies) A. Pedersen

Hedges and scrub; occasional. The pedicel has abundant stalked glands. Told by its woolly styles, wide orifice (1/3 or more of the total width of the disc), and at least some of its prickles curved. Frequent in scrub in the lowlands.

Tressady 15/07/1959 M. McC. Webster det. R. Melville

NC40 NC43 NC50 NC70 NC71 NC74 NC80 NC90 NC91 ND01 NH59 NH69 NH78 NH79

Cavaig North Brora	NC894041	hamlet	10/09/2012
Rhemusaig Quarry Rogart	NC731020	abandoned quarry	10/09/2012
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Glen Cassley	NC468032	roadside	03/07/2013

Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Davochfin	NH778889	roadside	04/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Helmsdale	ND033153	seaside grass	07/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Loch Fleet at Balblair Wood	NC804975	edge of salt marsh	07/07/2013
Evelix	NH767910	roadside	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
Flood Bay	NH712882	coastal grassland	11/07/2013
Ospisdale	NH713898	roadside	11/07/2013
Old Helmsdale	ND022160	roadside	12/07/2013
Portgower	ND011136	roadside	12/07/2013

[*Rosa x perthensis* Rouy = *R. sherardii* x *R. mollis*]

Recorded from Easternness.

[*Rosa x suberecta* (Woods) Ley = *R. sherardii* x *R. rubiginosa*]

Recorded from Inverness.

Rosa mollis Sm. *Soft Downy-rose*

n 6

Rosa villosa auct. non L.

Fresh leaves are strongly resinous scented.

NC40 NC50 NC51 NC60 NC63 NC70 NC71 NC74 NC80 NC82 NC84 NC90 NC91 NC92 ND01
NH59 NH69 NH78 NH79 NH89

Davidson Terrace Lairg NC588062 council houses 06/09/2012

[*Rosa x molliformis* Wolley-Dod = *R. mollis* x *R. rubiginosa*]

Recorded from Inverness and the Moray coast.

Rosa rubiginosa L. *Sweet-briar*

n 6

Hedges, scrub and woody places; not common but widely scattered. Told in the field by the abundant stalked glands beneath the leaves which give (some people) an apple scent when crushed. The pedicels bear abundant long-stalked glandular hairs and the sepals are persistent on the ripe hips.

The Mound	NH766985	24/08/1998	M.E. Murray det. Primavesi
Royal Dornoch quarry	NH806896	05/09/1998	M.E. Murray

NC70 NH78 NH79 NH88 NH89

Dornoch Links E	NH790880	coastal grassland	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Coul Links	NH805952	sand dunes	04/07/2013
Tulloch	NH622937	roadside	09/07/2013

Rosehall	NC470022	village	09/07/2013
Badnellan	NC885045	hamlet	10/07/2013

ELAEAGNACEAE

Hippophae rhamnoides L. *Sea-buckthorn* ● m 3

Much used in modern urban landscaping schemes where a vandal-proof hedge is required. Self-seeding abundantly, bird-sown from planted bushes, in many places, especially on sandy soils.

Carn Liath	NC870013	15/07/1975	J.E. Kirby
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NC50 NC80 NC90 NH79 NH89

Braefoot Portgower	ND010135	cottages	11/07/2010
Dunrobin Castle beach	NC849004	shingle beach	11/07/2010
Brora Harbour	NC909037	waste ground	12/05/2011
The Mound new sea wall	NH776982	sea wall	11/07/2011
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
back of dunes Brora	NC909036	sand dunes	09/09/2012
Portgower	ND010135	hamlet	07/09/2012
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Dunrobin Castle Beach	NC849523	coastal grassland	06/07/2013
Navidale Cemetery	ND042161	cemetery	07/07/2013
Little Ferry	NH805956	hamlet	12/06/2015

Elaeagnus umbellata Thunb. *Spreading Oleaster* ● n 5

A garden shrub with silver under-leaves. Occasionally bird sown outside gardens.

Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
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Elaeagnus pungens Thunb. '**Maculata**' *Variiegated Oleaster* ● n 5

A common shrubby plant with striking golden-yellow variegation, also used widely in urban landscaping schemes.

Ferry Road Golspie	NH825996	bungalows	16/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Elaeagnus 'Ebbingei' *Oleaster* = **E. macrophylla** x **E. pungens** ● n 5

An uncommon hedge plant in vc. 107. Widely planted in municipal landscaping schemes on new schools, business parks, and such like.

Doll	NC888028	hamlet	10/09/2012
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

RHAMNACEAE

Frangula alnus Mill. *Alder Buckthorn*
Rhamnus frangula L.

m 5

On wet heathland and on peaty soil in damp copses, local and rather rare, restricted to acid soils. Leaves entire and winter buds without scales distinguish this from *Rhamnus*. Very local and rare.

NH69

NVC: W 1,5,16

ULMACEAE

Ulmus glabra Huds. *Wych Elm*

mm 2

A woodland rather than a hedgerow elm, often near dwellings. This is a non suckering species, rarely forming thickets.

NC30 NC31 NC40 NC50 NC51 NC60 NC70 NC80 NC83 NC84 NC90 NC91 NC92 ND01 NH59
 NH68 NH69 NH78 NH79 NH89

Allt a' Chnoic Ghlais	NC380181	ravine	10/07/1998 Gordon Rothero
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Lairg Station	NC582038	railway	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Lothmore Church	NC971113	churchyard	11/07/2010
Glaslochan Links N Brora	NC912060	coastal grassland	11/07/2010
Brora	NC910041	suburbia	11/07/2010
Linsidmore Wood	NH498998	roadside	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Maikle Kyle of Sutherland	NH595936	woodland	12/07/2010
Drumlian Road Bonar Bridge	NH606924	council houses	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Blarich	NC695041	stream	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011

Kinbrace	NC863319	hamlet	11/05/2011
Lochside	NC872355	hamlet	11/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
East Clyne	NC893062	stream	12/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Helmsdale Riverside	ND026154	woodland	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Carnegie Woodland	NH732892	parkland	09/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Morvich	NC753007	hamlet	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Sputie Burn Doll	NC884026	fallow	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
Dornoch Caravan Site Bridge	NH802890	waste ground	20/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Culgower House	NC976119	parkland	17/05/2012
Crackaig Farm Wood	NC957105	woodland	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012

Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Big Burn car park Backies	NC837013	woodland	05/05/2013
Main Street Brora	NC903039	street	07/05/2013
Skelbo Castle	NH792951	ruins	08/05/2013
Sallachy Memorial Cairn	NC547090	park	02/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
Carn Liath	NC867013	lane	05/07/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
Dunrobin Castle stone walls	NC850007	stonework	06/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
etc.			

Ulmus glabra subsp. **montana** Hyl. with narrower leaves is recorded from NC83 & NC91

NVC: W 8,10,12,14,21

Ulmus procera Salisb. *English Elm*

mm 5

Ulmus minor auct., non Miller

Ulmus minor Miller var. *vulgaris* (Aiton) Richens

Very uncommon in vc. 107.

Brora Golf Club	NC909039	suburbia	27/06/2014
Grange Road Dornoch	NH800896	village	29/06/2014

CANNABACEAE

[**Cannabis sativa** L. *Hemp*]

• th 6

Waste ground about towns, casual.

Recorded from Easternness and the Moray coast.

Humulus lupulus L. *Hop*

hp 7

Damp hedges, fens, damp wood margins and thickets. Local and uncommon.

Bonar Bridge	NH610910	15/07/1979	M. McC. Webster
NH59 NH69 NH78			

Little Rogart	NC732041	hamlet	12/05/2011
Portgower	ND010134	roadside	07/07/2013

Ospisdale House NH713897 parkland 11/07/2013

NVC: OV 26; W 5,6

MORACEAE

[**Ficus carica** L. *Fig*] ● mm 6

On sunny brick walls of the vegetable gardens of the larger estates. Sometimes on waste ground away from gardens, but seldom self-sown and more usually a garden relic than an escape.

URTICACEAE

Urtica dioica L. *Common Nettle* hp 6

Woods on phosphate-rich soils, often the dominant ground-layer plant (e.g. in the lower parts of woods on steep slopes or under rookeries), and in meadows, mires, swamps, grasslands, near streams, farmyards, roadsides and waste ground. Widespread and locally dominant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68
NH69 NH78 NH79 NH88 NH89

NVC: CG 2,4; M 27; MG 1,9,10; OV 3,8-10,12,13,15,19,21,23,25-28,33,41,42; S 3-7,
12,14,15,23,25,26,28; U 1; W 5,6,8,10,12-14,21,22,24,25

Urtica urens L. *Small Nettle* ○ th 6

Dry arable fields, gardens and disturbed ground, often in the dry shade beneath conifers. Local and uncommon in the east.

Migdale Rock 15/08/1976 M.J. Marshall

NC70 NC73 NC80 NC82 NC83 NC90 NC91 NC92 ND01 NH69 NH78 NH88 NH89

Brora Golf Course	NC913043	sand dunes	11/07/2010
Kirkton	NH799986	farmstead	10/07/2011
Dalnessie	NC631152	hamlet	16/07/2011
Inchcape	NC690030	hamlet	16/07/2011
sea front Golspie	NH831998	disturbed ground	07/09/2012
Stafford Road Dornoch	NH801899	council houses	10/07/2013

NVC: OV 7, 8, 10, 13, 14, 18, 19

Parietaria officinalis L. *Eastern Pellitory-of-the-wall* ● hp 6

A very rare plant in Britain. Told from the much commoner *P. judaica* on the basis of seed size: the seeds are larger (>1.5 mm in length) in *P. officinalis* than in *P. judaica* (<1.5 mm in length). The plant is taller, lighter green and more upright in habit, with longer petioles and more acuminate leaf tips.

Navidale House Hotel	ND03980 15886	base of dry stone wall	07/09/2012
Navidale House Hotel	ND03980 15886	base of dry stone wall	05/07/2013
Navidale House Hotel	ND03980 15886	base of dry stone wall	14/06/2015

[**Parietaria judaica** L. *Pellitory-of-the-wall*] • hp 6

Recorded from Easternness and the Moray coast.

Soleirolia soleirolii (Req.) Dandy *Mind-your-own-business* • ch 5
Helxine soleirolii Req.

Damp bases of walls near houses, often on brickwork near water; very local and rare in vc. 107. Damp, shady alleyways with brick or stone steps, forming a carpet of tiny green ground-hugging leaves on substrates where no other plants will grow. Also in damp lawns that are shaded by walls or trees, often in churchyards.

Ross Gardens Golspie	NC834004	council houses	14/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Dunrobin Castle	NC851008	parkland	17/05/2012
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014

FAGACEAE

[**Nothofagus obliqua** (Mirb.) Blume *Roble*] • mm 5
Fagus obliqua Mirbel

Recorded from Easternness and the Moray coast.

Fagus sylvatica L. *Beech* mm 4

A dominant component of woods in the east, but rarer elsewhere. Commonly self-sown in plantations, hedges and parks elsewhere.

NC40 NC50 NC51 NC60 NC62 NC63 NC70 NC73 NC80 NC90 NC91 NC92 ND01 NH59 NH68
NH69 NH78 NH79 NH89

Shinness Lodge	NC530150	hamlet	13/05/2011
N of Colaboll Loch Shin	NC553113	wet heath	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Rogart Church	NC738035	churcyard	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
N Brora	NC904051	bungalows	12/05/2011

Kildonan Farm	NC910209	farm	11/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Whiteface	NH708893	roadside	07/05/2011
Skibo Castle	NH732892	parkland	09/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
Spinningdale	NH675897	waste ground	18/06/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
A9 verge at Ballinreach	NC932087	roadside	23/06/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Mound Rock basal woods	NH780985	woodland	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
etc.			

NVC: W 4,8,10,12,14,15,16,21,24,25

Fagus sylvatica 'Riversii' *Purple Beech*

Purple-leaved trees ('Atropurpurea Group') are commonly planted as specimens as at

Shinness Lodge	NC530150	hamlet	13/05/2011
Lairg Dam Lochside	NC578069	hamlet	13/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Swimming Pool Skibo	NH734888	pond	09/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011
A9 verge at Ballinreach	NC932087	roadside	23/06/2011
Morvich	NC753007	hamlet	11/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Clashmore	NH747895	village	11/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
West Shinness Lodge	NC530151	hamlet	08/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Invercassley House Rosehall	NC474015	parkland	28/06/2014
West Helmsdale	ND020157	hamlet	27/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
North Brora	NC909044	bungalows	19/06/2015
Earls Cross Road Dornoch	NH800900	suburbia	21/06/2015

Academy Street Brora	NC903044	bungalows	13/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Achinduich	NC580000	hamlet	12/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Marrel	ND018162	roadside	14/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Helmsdale Station	ND023155	railway	17/06/2015

Fagus sylvatica 'Pendula' *Weeping Beech*

Very rare in vc. 107.

Academy Street Brora	NC903044	bungalows	13/06/2015
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Castanea sativa Mill. *Sweet Chestnut*

○ mm 7

Plantations, woods, parks, etc. Introduced and uncommon. Probably always planted with us.

NC50 NC80 ND01 NH68 NH78 NH89

Kintradwell Burn	NC918077	woodland	08/05/2011
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013

Quercus cerris L. *Turkey Oak*

● mm 5

Woods and heaths, mainly on acid soils. Apparently not self-seeding. Rare on the larger estates.

Dunrobin Castle	NC850007	parkland	11/04/2010
Invercassley House Rosehall	NC474015	parkland	28/06/2014

Quercus ilex L. *Evergreen Oak*

● mm 5

Plantations, roadsides and hedges, commonly planted and occasionally self-sown. Told from cork oak, *Q. suber*, by its straight midrib (the vein is slightly kinked or sinuous in cork oak). The leaves are often mined on their under-surface by *Phyllonorycter messaniella*.

Carnegie Woodland Skibo Castle	NH732892	parkland	09/05/2011
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Quercus petraea (Matt.) Liebl. *Sessile Oak*

mm 4

Quercus robur L. var. *petraea* Mattuschka

Woods and plantations on acid soils, locally abundant (e.g. Spinningdale) but absent from large areas. The underside of the leaf typically has at least one additional strong vein leading to a lobe-tip, compared with *Q. robur*. (5-8 pairs of lobes on each leaf in *Q. petraea* vs. 3-6 pairs of lobes with strong veins beneath in *Q. robur*). The edges of the veins on the underside of the leaves always have

abundant stellate (star-shaped) hairs. Natural regeneration is rather scarce, and many (most?) of the older trees may be planted.

NC40 NC50 NC60 NC70 NC71 NC80 NC81 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Ledmore Wood	NH664893	ancient woodland	12/07/2010
Saw Mill Golspie	NC841012	woodland	09/05/2011
Rosehall Forest Trails	NC479018	pine plantation	28/06/2014

NVC: W17

Quercus x rosacea Bechst. = **Q. petraea x Q. robur**

There is a crude but useful scoring system for determining hybrid oaks. Score 2 points for pedunculate acorns, 1 point for sessile acorns; 2 points for simple hairs or no hairs in the axils of the leaf veins below, 1 point for stellate (star-shaped) hairs; 2 points for a lobed leaf base, 1 point for cuneate (wedge-shaped; score 1.5 if one side of the petiole has a lobe and the other side is cuneate !); 2 points for petiole less than 1cm long, 1 point for petiole more than 1cm. Add your 4 scores together, then:

8 points	pure <i>Q. robur</i> (the hedgerow oak on some big estates)
4 points	pure <i>Q. petraea</i> (uncommon in Sutherland)
5-7 points	<i>Q. x rosacea</i> , the higher the score, the closer to <i>Q. robur</i> (the common woodland oak in Sutherland, both planted and self-seeded)

If you can not find any acorns, then the scores are out of 6, and the hybrids score 4 or 5.

Often the most frequent oak in northern Scotland, but under-recorded in the past.

Clashmore	NH747895	village	10/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Rhivaig Overskibo	NH724895	hamlet	07/05/2011
Overskibo	NH729895	hamlet	09/05/2011
Swimming Pool Skibo	NH734888	pond	09/05/2011
Skibo Castle S grounds	NH735891	stonework	10/05/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011

Auchintoul	NH518992	riverbank	12/07/2011
Clashmore	NH747895	village	11/09/2012
R Brora at Rallan	NC870045	riverbank	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
Rhemusaig Quarry Rogart	NC731020	abandoned quarry	10/09/2012
Kilphedir Lodge	NC982185	oak woodland	09/09/2012
Kilphedir Lodge	NC993184	oak woodland	09/09/2012
R Cassley Rosehall Bridge	NC471022	riverbank	08/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
Birchwood Lodge Kildonan	NC984185	oak woodland	05/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Ben Bhraggie Wood	NC818007	conifer plantation	11/05/2015
Kildonan Lodge	NC904222	parkland	17/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Clashmore	NH745895	hamlet	17/05/2015
lower Allt Sgrigil wood	ND022175	woodland	14/06/2015

Quercus x rosacea 'Filicifolia'

The rare cut-leaf oak is sometimes found as an outcast.

Spinningdale	NH675897	waste ground	18/06/2011
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Quercus robur L. *Pedunculata Oak*

mm 4

Woods, hedges, coppices in the lowlands. Abundant to locally dominant, typically much more abundant than *Q. petraea*, but typically less abundant than *Q. x rosacea*. Natural regeneration is rather scarce, and many (perhaps most) of the older trees may be planted.

NC30 NC40 NC50 NC60 NC70 NC80 NC81 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79

Clashmore	NH747895	village	10/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Overskibo	NH729895	hamlet	09/05/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Salmon ladder	NH740980	woodland	11/07/2011
Mound Rock	NH770980	woodland	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013

Pittentrail	NC726019	village	04/05/2013
Oldtown Rock	NC860091	dry heath	05/05/2013
Backies Curling Pond	NC839012	woodland	05/05/2013
Big Burn car park Backies	NC837013	woodland	05/05/2013
Gartymore	ND013143	hamlet	05/05/2013
Killin Rock	NC862052	birch wood	05/05/2013
Oldtown Rock	NC853086	birch wood	05/05/2013
St Mirrens Cemetery	NC783098	graveyard	07/05/2013
R Evelix at Cuthill Bridge	NH748878	riverbank	04/07/2013
Strath of Kildonan	NC984185	oak woodland	05/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Ospisdale	NH713898	roadside	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rosehall Forest Trails	NC479018	pine plantation	28/06/2014
Invercassley House Rosehall	NC474015	parkland	28/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Strath Oykel	NH496999	riverbank	12/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

NVC: W 1,4-6,8,10-16,21,24,25

Quercus rubra L. *Red Oak*

• mm 5

Quercus borealis Michaux f. var. *maxima* (Marshall) Ashe

Probably always planted with us. Acorns are produced but seedlings have not yet been found.

Achness Falls Rosehall	NC468028	riverbank	06/05/2013
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Also recorded from Easternness and the Moray coast.

MYRICACEAE

Myrica gale L. *Bog-myrtle*

n 4

Bogs and wet moors. Widespread and locally abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Spinningdale Bog SSSI	NH667907	valley fen	10/07/2010
Longuish Road Junction	NH644919	wet heath	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Knock Craggie	NC329056	wet heath	12/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Loch Merkland	NC364331	wet heath	13/05/2011
West Merkland	NC384329	stream	13/05/2011

Merkland Lodge	NC400296	hamlet	13/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Langwell Hill	NC409120	wet heath	10/05/2011
Glen Cassley	NC456050	wet heath	10/05/2011
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Allt na Caorach Loch Shin	NC491198	wet heath	13/05/2011
A839 watershed	NC521017	wet heath	10/05/2011
Strath Tirry	NC523235	wet heath	11/05/2011
Strath Tirry	NC530225	wet heath	11/05/2011
Strath Tirry	NC536215	wet heath	11/05/2011
Strath Tirry	NC541205	wet heath	11/05/2011
Strath Tirry	NC548195	wet heath	11/05/2011
Strath Tirry	NC553182	native plantation	11/05/2011
Strath Tirry	NC553182	roadside	11/05/2011
N of Colaboll Loch Shin	NC553113	wet heath	13/05/2011
Strath Tirry	NC558175	wet heath	11/05/2011
Riemarstaig watershed	NC609056	dry heath	13/05/2011
Loch Rosail	NC717402	loch side	11/05/2011
Craggie Beg	NC741079	wet heath	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Cnoc Bad a Ghille Dhuibh	NC788366	wet heath	11/05/2011
Loch Achnamoine	NC815322	wet heath	11/05/2011
Loch Brora Birchwoods	NC856080	stony shore	08/05/2011
Loch an Ruathair	NC871357	loch side	11/05/2011
Meall a Bheallaich (196m)	NC883404	wet heath	11/05/2011
Cnoc Bad na h-Eiris	NC887254	dry heath	11/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Achinnearin Strath Kildonan	NC901230	wet heath	11/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
E Loch Buidhe	NH673983	wet heath	13/05/2011
Garskelly Strath Carnaig	NH710983	wet heath	13/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Ach an Fhionnfhuaraidh	NC899243	deer enclosure	19/06/2011
Phone Exchange Borrobol	NC878264	roadside	19/06/2011
Achentoul Forest	NC881384	wet heath	19/06/2011
Rimsdale Forest	NC748390	roadside	20/06/2011
vc 107 watershed	NC690300	wet heath	20/06/2011
Halmarie	NC696319	wet heath	20/06/2011
An Dubh-lon	NC695324	blanket bog	20/06/2011
Halmarie Burn	NC697302	rocky stream	20/06/2011
Cnoc a Chrom-uilt	NC725312	wet heath	20/06/2011
Lochan Dubh	NC725322	blanket bog	20/06/2011
Rubha Geal	NC743335	wet heath	20/06/2011
Lonesome birch	NC757331	wet heath	20/06/2011
Meall an t-Socaich	NC766334	wet heath	20/06/2011
Meall an t-Socaich	NC773332	gravel pit	20/06/2011
Garvault slope	NC785387	wet heath	21/06/2011
Above the pony track	NC790389	wet heath	21/06/2011
W slope of Ben Gram Mor	NC798390	wet heath	21/06/2011
Ben Griam Mor NW-slope	NC797393	wet heath	21/06/2011

Garbh-allt	NC791401	wet heath	21/06/2011
Allt na Craige Duibbe	NC785403	wet heath	21/06/2011
Biod Eag	NC782403	wet heath	21/06/2011
Biod Eag	NC777400	wet heath	21/06/2011
Garvault Hotel	NC779394	wet heath	21/06/2011
Cnoc na h-lolaic	NC695343	molinia bog	21/06/2011
Palm Loch	NC708411	loch side	21/06/2011
Green Loch	NC719399	wet heath	22/06/2011
Beinn Rosail watershed	NC701404	wet heath	22/06/2011
etc.			

NVC: M 13,16,21; S 25; W 4

JUGLANDACEAE

Juglans regia L. *Walnut*

• mm 6

Hedges and railway banks, usually as single trees, mostly on nutrient rich soils. None of the trees that I have seen look as if they were self-sown.

Gordonbush Lodge Glen Brora NC844096 parkland 10/09/2012

BETULACEAE

Betula pendula Roth *Silver Birch*

mm 4

Betula alba L., pro parte
Betula verrucosa Ehrh.

Almost always planted with us. Towns, villages, plantations. woods, heaths and thickets on light soil. Widespread in the lowlands, but usually uncommon. This is not the birch of birch woodlands in vc. 107. The base of the trunk is not smooth and silvery, but rather broken up into charcoal-black cubes of bark. The leaves have two sizes of teeth, with the big teeth serrated by smaller teeth. Planted in lowland woods and self-seeding on waste ground.

NC30 NC32 NC40 NC41 NC42 NC50 NC51 NC52 NC70 NC71 NC73 NC80 NC81 NC82 NC84
NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Rhian Breck	NC599048	hamlet	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Overskibo Curling Pond	NH727902	pond	14/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011

Spinningdale	NH675897	waste ground	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Mound Rock	NH770980	woodland	11/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Gallows Hill Dornoch	NH803901	derelect garden	21/06/2015
Rhives Farm Golspie	NC827005	woodland	11/05/2015
Raemore Wood Gruids	NC542045	conifer plantation	24/06/2014
Raemore Wood Gruids	NC546034	conifer plantation	24/06/2014
Golspie S	NC824997	village	09/05/2015
Raemore Wood Gruids	NC531049	conifer plantation	24/06/2014
Lindsay Street Golspie	NH830998	council houses	14/06/2015

Betula pendula ‘Tristis’ *Weeping Birch*

This top-grafted cultivar is less popular in vc. 107 than it is further south.

School Road Dornoch	NH790898	suburbia	17/05/2015
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NVC: W 1,4,5,6,8,10,12,14,15,16,21

Betula pubescens Ehrh. *Downy Birch*

mm 4

Betula alba L., pro parte

Betula pubescens subsp. **pubescens**

This is the common birch with us. Birch woods, swamps, crags, heaths and deans. Widespread and locally frequent. Told from *B. pendula* by leaves with relatively broad tips so that the leaf tip is much rounder (acute to subacute) than in *B. pendula* (which is acuminate at the apex). Note that, despite the name, the twigs and leaves of *B. pubescens* are often glabrous with us. Plants with much smaller leaves (less than 3cm) are likely to be subsp. *tortuosa*. (see below)



Birch woods *Betula pubescens* by Loch Brora in late winter.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70
 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
 NH68 NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Spinningdale Bog SSSI	NH667907	valley fen	10/07/2010
Ord of Caithness	ND057179	roadside	11/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Coul Links	NH805946	dune slacks	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
North Lodge Rosehall	NC479018	ruined walls	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Maikle Kyle of Sutherland	NH595936	woodland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Camore	NH778903	council houses	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
West Merkland	NC384329	stream	13/05/2011
Duchally Lodge	NC388166	riverbank	10/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Glen Cassley swimming hole	NC413116	stream	10/05/2011
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
March Cottage Glen Cassley	NC444067	croft	10/05/2011
Glen Cassley	NC455050	riverbank	10/05/2011
Glen Cassley	NC456050	wet heath	10/05/2011
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Strath Tirry	NC553182	native plantation	11/05/2011
N of Colaboll Loch Shin	NC553113	wet heath	13/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
Strath Tirry	NC558175	wet heath	11/05/2011
Rhian Bridge	NC563165	hamlet	11/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Riemarstaig watershed	NC609056	dry heath	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Rhilochan	NC743071	roadside	12/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011

Garvault Hotel	NC782386	hamlet	11/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Gordonbush Lodge	NC844097	parkland	08/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Loch Brora Birchwoods	NC856080	stony shore	08/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Clynelish Moss Glen Brora	NC880051	cotton grass bog	08/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Sidhean Mor	NH646972	wet heath	13/05/2011
W Loch Buidhe	NH653982	wet heath	13/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Garskelly Strath Carnaig	NH710983	wet heath	13/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
Overskibo ponds	NH724903	pond	14/05/2011
Loch Skibo Overskibo	NH727899	pond	14/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Astle	NH745919	hamlet	10/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Clashmore Wood	NH757898	pine wood	09/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
etc.			

NVC: M 16; OV 27; W 1,4,5,6,8,10,12,14,15,16,24

Betula pubescens subsp. **tortuosa** (Ledeb.) Nyman
Betula pubescens subsp. *carpatica* (Willd.) Asch. & Graebn.
Betula pubescens subsp. *odorata sensu* E.F. Warb.

mm 4

A more shrubby kind of tree with small leaves (less than 3cm). The young twigs and petioles can be either hairy or glabrous.

Rhivra Spinningdale	NH667907	roadside	10/07/2010
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Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Dalreavoch Bridge	NC755088	stream	12/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC856080	stony shore	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Achentoul Burn	NC892326	gorge	19/06/2011
Mound Rock	NH770980	woodland	11/07/2011
Oykel Bridge E	NC390000	woodland	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Borrobol Forest	NC803255	woodland	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Loch Airighe Mhor	NC690020	woodland	16/07/2011
Craggie Water	NC913192	rocky stream	27/06/2014
Raemore Wood Gruids	NC542045	conifer plantation	24/06/2014
A389 Braemore Grudie Burn	NC543026	roadside	24/06/2014
Gruids	NC568037	hamlet	24/06/2014
Meall Mor W flank	NH647975	roadside	25/06/2014
Killin Rock Strath Brora	NC862053	birch wood	11/05/2015
Craggie Water at Craggie	NC876197	rocky stream	20/06/2015
Srath Carnaig	NH735983	wet heath	12/05/2015
Allt Sgrigil	ND026176	upland grassland	14/06/2015
Beinn Dubhain Helmsdale	NC937207	dry heath	17/06/2015
opposite Marrel	ND022171	roadside	14/06/2015
Cnoc Torr an Leamhain	NC591001	dry heath	12/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
The Pap Helmsdale	NC940212	crags	17/06/2015
Allt a Choin-duinn	NH617993	wet heath	12/06/2015
Meall Eachainn	NC608001	dry heath	12/06/2015
Loch Laro W	NH609995	loch side	12/06/2015
Blar Buidhe Helmsdale	NC956212	wet heath	17/06/2015
Meall Eachainn	NC611003	dry heath	12/06/2015
Laundry Road Lairg	NC586063	industrial	12/06/2015

[*Betula x aurata* Borkh. = *B. pendula* x *B. pubescens*]

Recorded from the Moray coast.

Betula nana L. *Dwarf Birch*

n 2



Betula nana Kim Hansen

Upland moors and bogs on peat. Locally frequent in the west. The leaves are orbicular and less than 2cm long, with a petiole less than 5mm long.

Ben Armine		15/07/1963	D.A. Ratcliffe
Forsinard Flows (in vc107)		15/07/1963	D.A. Ratcliffe
Glen Fiag	NC478209	29/06/1998	Gordon Rothero
Loch Gaineamhach	NC512260	12/06/2000	Stokes, Mr R.M.
Beinn Sgeireach	NC448127	04/07/1999	Gordon Rothero
Gorm Loch Mor	NC709235	18/07/1999	Gordon Rothero

NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC72 NC73 NC74 NC81
NC82 NC83 NC84 NH49 NH79

W of Sallachy	NC520080	wet heath	16/07/2011
W of Sallachy	NC522081	wet heath	16/07/2011
W of Sallachy	NC528087	wet heath	16/07/2011
W of Sallachy	NC529088	wet heath	16/07/2011
Loch na Caillich	NC512083	wet heath	16/07/2011
Loch na Caillich	NC515082	wet heath	16/07/2011
Loch na Caillich	NC514085	wet heath	16/07/2011
Loch na Caillich	NC515082	wet heath	16/07/2011

Creag Mhor Ben Armine	NC702238	crag	12/07/2013
Sail na h-Uamhaig	NC438302	wet heath	26/06/2014
E of Loch Fiag	NC450303	dry heath	26/06/2014
Garbh Allt N of Garvault	NC781424	wet heath	18/06/2015
Biod Eag summit	NC776412	rocks	18/06/2015
Beinn a' Mhadaidh E saddle	NC770415	wet heath	18/06/2015
S of Caol-loch Beag	NC777432	wet heath	18/06/2015

Betula utilis var. jacquemontii (Spach) H.P.L. Winkl. *Himalayan Birch* ● mm 3

An increasingly popular garden plant with snow-white bark peeling to cream. Often grown as a multi-stemmed specimen in a lawn.

Clashmore	NH748895	village	08/05/2015
Balblair	NH799973	hamlet	12/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

Alnus glutinosa (L.) Gaertn. *Alder* mm 2
Betula alnus L. var. glutinosa L.

River-sides, loch-sides and damp woods, frequent by the banks of all the major water courses. Widespread and locally abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC62 NC63 NC70 NC71
NC73 NC80 NC81 NC82 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

NVC: M 24,36; S 25; W 1,4-6,8,10

Alnus incana (L.) Moench *Grey Alder* ● mm 2
Betula alnus L. var. incana L.

Much planted in land reclamation schemes. Occasional in hedgerows in the countryside, a long way from houses. An increasingly popular tree, but always planted.

Ascoile Loch Brora	NC825105	06/08/1999	BSBI
Loch Shin	NC567101	06/08/1999	BSBI

NC51 NC81

Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
West Shinness Lodge	NC530151	hamlet	08/09/2012
Sleastary	NH643963	croft	09/07/2013
School Road Dornoch	NH790898	suburbia	17/05/2015

Alnus cordata (Loisel.) Duby *Italian Alder* ● mm 3
Betula cordata Lois.

Planted ornamental. Local and rare with us. Seldom self-sowing.

Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013

Carpinus betulus L. *Hornbeam* mm 4

Woods, plantations, hedges, coppices. Seldom in semi-natural habitats. Typically planted and rarely self-sown. An uncommon tree in vc. 107.

NC90 NH78

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Kinbrace	NC862317	hamlet	16/06/2015

Corylus avellana L. *Hazel* m 1

Woods, coppices, hedges, etc. Widespread and very common in the lowlands.

NC30 NC31 NC33 NC40 NC41 NC50 NC51 NC60 NC63 NC70 NC71 NC74 NC80 NC81 NC82
NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

NVC: W 1,4,6,8,10,12,14,16,21,22,24

CUCURBITACEAE

Bryonia dioica Jacq. *White Bryony* g 5
Bryonia cretica L. subsp. dioica (Jacq.) Tutin

Hedges, wood-borders, thickets on rich, well-drained soil. Very local and rare.
A single record pre-1986. Not seen since.

NC82

[**Cucumis melo** L. *Melon*] ● th 7

Seedlings from discarded melon pips are common on compost heaps, but the plants never make it to maturity. Occasionally found growing with tomatoes on sewage beds.

[**Cucumis sativus** L. *Cucumber*] ● th 7

Mostly grown under glass, and not frost hardy, so never seen naturalised in vc. 107. An occasional throw-out on tips in autumn. Large numbers of named F1 hybrids are sold through seed catalogues (e.g. there are 80 different F1 cucumbers listed in the twelfth edition of *The Seed Search* (Platt, 1977)).

[**Cucurbita maxima** Duchesne ex Lam. *Pumpkin*] ● th 7

A vigorous trailing annual grown in gardens as winter pumpkin, autumn squash, winter squash or gourd. They have highly decorated fruits and are often grown for ornament rather than for eating.

[**Cucurbita moschata** (Duch. ex Lam.) Duch. ex Poir *Butternut*] ● th 7

Also known as winter squash and pumpkins, these are occasionally grown on allotments. They include the curious, hook-shaped pumpkins.

[**Cucurbita pepo** L. *Marrow*] ● th 7

A wide variety of vegetable marrows, zucchini (courgette), autumn pumpkins, vegetable spaghetti, summer squash and ornamental gourds are grown in gardens and can be found as outcasts on tips in autumn. The ornamental cultivar 'Turks Turban' produces deep reddish-orange pumpkins with white and green striped markings.

[**Citrullus lanatus** (Thunb.) Matsum. & Nakai *Water Melon*] ● th 7

Occasionally found growing with tomatoes and melons as seedlings in sewage beds. The pips are often thrown out and seedlings can be found on compost heaps in gardens, but they do not last the winter.

CELASTRACEAE

Euonymus europaeus L. *Spindle* m 5

Hedges, woods and open bushy places. Local and rare. Its beautifully coloured fruits are very ornamental in hedgerows in the autumn.

Dunrobin Castle wild garden NC850007 parkland 17/05/2012

Also recorded from Easternness and the Moray coast.

Euonymus fortunei (Turcz.) Hand.-Mazz. ● n 5

This is the common variegated ground-cover plant, so familiar as the golden ('Emerald n' Gold'), pink ('Emerald Gaiety') and silver ('Silver Queen') cultivars. Not seeding with us, and seldom thrown out.

Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014

[**Euonymus japonicus** L.f. *Evergreen Spindle*] ● m 5

A common hedging plant further south, sometimes self-seeding on waste ground in towns and villages.

PARNASSIACEAE

Parnassia palustris L. *Grass-of-Parnassus*

hs 7

Marshy places in dune slacks and bogs. Occasional in the lowlands.

The Ord Lairg	NC575056	15/08/1974	J.E. Kirby
Coul Links Embo		10/07/1979	M.J. Marshall
The Mound Alder Woods		10/07/1979	M.J. Marshall
Coul Links Embo	NH810940	10/07/1979	M.J. Marshall
The Mound Alder Woods	NH760980	10/07/1979	M.J. Marshall
Dubh Loch More	NC321185	15/09/1997	Alex Scott

NC31 NC50 NC52 NC63 NC80 NC83 NC92 ND01 NH68 NH78 NH79 NH88 NH89

Dornoch Common Good	NH806879	sand dunes	13/07/2010
Dornoch Dunes S	NH800883	sand dunes	14/07/2011
Dornoch Dunes S	NH800883	sand dunes	11/07/2012 Harle & Young
Dornoch Common Good	NH805884	sand dunes	30/06/2013

NVC: M8-10, 13, 38; SD14-17; MC10

OXALIDACEAE

Oxalis corniculata L. *Procumbent Yellow-sorrel*

● th 5

Oxalis stricta sensu Robinson et auct., non L.

Pvements, base of walls, garden ground, rubbish tips, waste ground, etc. It is not clear whether the rash of new records in the early 1970s marked a sudden spread of the plant, or just a pulse of enthusiasm in recording effort. The leaves are often purple-brown (var. *atropurpurea* Planchon). Much less common in vc. 107 than further south.

Astle	NH745919	hamlet	10/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Oxalis exilis A. Cunn. *Least Yellow-sorrel*

● th 5

Oxalis corniculata L. var. *microphylla* J.D. Hook.*Xanthoxalis exilis* (Cunn.) Holub*Oxalis repens* sensu R.M. Burton, non Thunb.

In compacted bare ground on paths, lawn-edges and below walls. Also capable of competing with lawn grasses, when the shade of a wall or an overhanging tree maintains soil moisture in the heat of the day. Told from *O. corniculata* by the inflorescence always being 1-flowered (and 1-fruited), having much smaller capsules (3-4.5mm rather than 8-20mm), and by the flowers having 5 stamens with anthers and 5 without. Much less common in vc. 107 than further south.

Ross Gardens Golspie	NC834004	council houses	14/05/2011
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[*Oxalis stricta* L. Upright Yellow-sorrel]

• hp 6

Oxalis dillenii auct., non Jacq.*Oxalis fontana* Bunge*Oxalis europaea* Jordan*Xanthoxalis fontana* (Bunge) Holub

I suspect that several (perhaps even many or most) of the Highland records are *O. corniculata* (the distinction 'stems procumbent' versus 'stems decumbent' in the key does not instil great confidence). *O. stricta* is actually closest to *O. dillenii* from which it differs in never having white patches on the seeds, and pedicels erect in fruit (both species have capsules erect in fruit, but the pedicels of *O. dillenii* are patent or reflexed). Fruiting pedicels in *O. corniculata* are patent or reflexed in fruit in distinction to *O. stricta* which has fruiting pedicels erect in fruit, forming a cymose inflorescence.

Recorded from Easternness and the Moray coast.

***Oxalis articulata* Savigny Pink-sorrel**

• hr 5

Oxalis floribunda auct., non Lehm.

This is the common pink-purple flowered sorrel of gardens, self-seeding freely and spreading by rampant rhizomes. Often thrown out and long persistent on waste ground, even amongst grass. The leaves have orange spots and arise from rhizomes, not bulbs.

Told from the other 4 pink flowered sorrels (*O. debilis*, *O. latifolia*, *O. tetraphylla* and *O. decaphylla*) by the lack of underground bulbs (and see those species descriptions). Orange warts on the underleaves is *not* a good character; it is shared with *O. debilis*. You really need to dig up some rhizome to be sure of your determination.

Ross Gardens Golspie	NC834004	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

***Oxalis magellanica* G. Forst. White-sorrel**

• hr 5

A mat-forming species with small, dark green leaves, purplish underneath, and small milky-white flowers. A rare garden plant and very rare as a garden weed in Sutherland.

It grows profusely, despite continual persecution, in gravel at the base of the north wall of Highcroft B&B at 312 Hilton of Embo above Dornoch.

Hilton of Embo	NH804915	shady gravel	04/07/2013
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NVC: no data

***Oxalis acetosella* L. Wood-sorrel**

hr 4

Oak and alder woods, thickets and hedge-banks, heaths, moors, mountain slopes, crags and mires; widespread and abundant.

Ben Hee	15/07/1973	A.G. Kenneth
Meall an Fheur Loch	15/07/1973	A.G. Kenneth
Meallan a Chuail	15/07/1973	A.G. Kenneth

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Duchally Lodge	NC388166	riverbank	10/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Glen Cassley	NC455050	riverbank	10/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Gordonbush Lodge	NC845097	parkland	12/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
East Clyne	NC893062	stream	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Astle	NH745919	hamlet	10/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011

The Alders The Mound	NH759985	woodland	13/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
Loanboadich	NH608944	grassland	18/06/2011
Loanboadich	NH608943	woodland	18/06/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Kinbrace Burn	NC877284	stream	19/06/2011
Achentoul Burn	NC881331	pine plantation	19/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Beinn Rosail crags	NC704406	crag	22/06/2011
Dunrobin Glen	NC812038	stream	22/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
etc.			

NVC: U 20; W 4,8,10,14,15,16,22; OV 38; H 18, 20, 21

[**Oxalis debilis** Kunth *Large-flowered Pink-sorrel*]

• gb 5

Oxalis corymbosa DC.

Oxalis debilis Kunth var. *corymbosa* (DC.) Lourt.

Oxalis debilis Kunth subsp. *corymbosa* (DC.) O. Bolòs and Vigo

The leaves are orange spotted (as in *O. articulata*) but they arise from a scaly bulb (rather than from a rhizome) and the flowers are pale (not deep) pink. Told from the other 2 pink-flowered bulb-producing species as follows: *O. decaphylla* has 5 or 10 leaflets (rather than 3), while *O. latifolia* has leaflets that are widest at the apex and which lack the submarginal orange dots.

Recorded from Easternness and the Moray coast.

[**Oxalis incarnata** L. *Pale Pink-sorrel*]

• th-gb 5

This species is an annual with an erect aerial stem (branching above ground), arising from a bulb and producing axillary bulbs. The petioles of the other pink sorrels arise below ground.

Recorded from Easternness and the Moray coast.

Oxalis tetraphylla ‘Iron Cross’

• th-gb 5

A popular garden plant with large, strikingly marked green-and-brown leaves

Millicent Avenue Golspie	NH828998	council houses	07/09/2012
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Oxalis adenophylla Gillies ex Hook. & Arn.

• th-gb 5

This is a pink-flower garden sorrel with distinctive, pleated, blue-coloured leaves

Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

EUPHORBIACEAE

[Ricinus communis L. *Castor-oil-plant*]

• th 7

Used as a central feature in municipal annual bedding schemes, especially the purple-leaved cultivars. Uncommon as a domestic garden plant, but sometimes found in autumn as an outcast on tips in towns. Often cut down by frost before it flowers, and not found self-sown in vc. 107.

Mercurialis perennis L. *Dog's Mercury*

hp 2

Woods, thickets, hedgerows. Very local and rare. We are just north of the northern edge of its range in Eastern Scotland. It is common in the Great Glen and along the Moray coast.

NH69

NVC: OV 27; W 6,8,10,12,13,14,21,22,24,25

Euphorbia dulcis L. *Sweet Spurge*

• hp 5

A slender garden plant, sometimes long persistent as an outcast. It has warty fruits without 'horns'. A bedding perennial, often grown as the purple foliated cultivar *E. dulcis* 'Chameleon'. At Ospisdale it grows amongst bryophytes on a shady wall-top.

Bonar Bridge	NH610914	village street	07/05/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Spinningdale	NH675897	hamlet	08/05/2013
Ospisdale	NH713898	hamlet	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Pittentrail	NC726019	village	10/05/2015

Euphorbia helioscopia L. *Sun Spurge*

○ th 5

Waste and cultivated ground; frequent in gardens and cornfields, and among crops of turnips and mangold. Generally distributed in the lowlands, but infrequent and sporadic in its occurrence.

NC70 NC80 NC90 ND01 NH69 NH78 NH79 NH89

Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012

NVC: OV 4,7,8,10,13,15,19,33

Euphorbia lathyris L. *Caper Spurge*

○ h 6 ↑

Gardens, waste ground and woods, from a very long-lived seed bank. In gardens, it seeds itself in all the wrong places. Rural folk swear by it as a way of keeping moles out of their gardens (the plant is known locally as 'Mole Plant'), but the scientific evidence supporting the efficacy of this practice is not compelling (Lloyd and Rice 1991).

Biblical Gardens Golspie	NC837001	garden	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012

[*Euphorbia exigua* L. Dwarf Spurge]

○ th 6

Arable land, open ground on waysides, and in gardens; uncommon.

Recorded from Easternness and the Moray coast.

***Euphorbia peplus* L. Petty Spurge** ○ th 4

Pavements, waste ground in towns, fields and gardens; this is the commonest weedy spurge, but still rather rare this far north.

NC73 NH78 NH89

Murray Place Pittentrail	NC727017	bungalows	10/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
East Clyde	NC896062	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Dalchalm	NC911059	hamlet	19/06/2015

NVC: OV 7,8,13,14,42

[*Euphorbia x pseudovirgata* (Schur) Soo Twiggy Spurge]

● hp 5

Euphorbia virgata Waldst. & Kit. var. *pseudovirgata* Schur

Euphorbia x virgata auct., non Waldst. & Kit.

Euphorbia x uralensis auct., non Fischer ex Link

Euphorbia x podperae Croizat

Recorded from Easternness and the Moray coast.

***Euphorbia epithymoides* L. Yellow Spurge**

● hp 6

Euphorbia polychroma

A bedding perennial with bright chrome yellow 'hearts'.

Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
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Euphorbia cyparissias L. *Cypress Spurge*

• hp 5

Locally frequent as an alien garden escape and in dry waste places. A common and invasive rockery plant, soon outgrowing its welcome, and hence frequently thrown out. Self sown on pavements.

Dornoch Links NH806897 01/09/1994 Jenny Wright

NH88

Clashmore	NH747895	village	10/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Pittentrail	NC726020	village	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Village Hall	NC494005	roadside	12/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Doll	NC888028	hamlet	10/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Rosehall	NC470209	village	06/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Clashmore	NH747895	village	08/05/2013
Camore	NH775903	bungalows	30/06/2013
High Street Lairg	NC584632	village	02/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Sleastary	NH643963	croft	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Pittentrail	NC726019	village	10/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Rosehall	NC470021	village	10/05/2015
Clashban	NH643964	hamlet	12/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Fanich	NC879037	hamlet	11/05/2015

Murray Road Dornoch	NH801898	council houses	17/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Kinbrace	NC862317	hamlet	16/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

NCV: CG 2 as a native. Always alien in Scotland.

Euphorbia amygdaloides subsp. **robbiae** (Turrill) Stace

• hp 3

Euphorbia robbiae Turrill

Euphorbia amygdaloides L. var. *robbiae* (Turrill) R.-Smith

A very common, dark-green foliaged garden plant, often found as an outcast on hedge-banks and waste ground in towns and villages throughout. Freely self seeding to type.

Golspie Main Street	NH831999	street	11/04/2010
Pittentrail	NC726020	village	12/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Brora Station	NC906414	railway	07/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Golspie	NC832000	village	08/05/2015
Kinbrace	NC862317	hamlet	09/05/2015
Pittentrail	NC726019	village	10/05/2015
Lairg	NC579068	bungalows	10/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Achinduich	NC580000	hamlet	12/06/2015

Euphorbia characias L. *Mediterranean Spurge*

• hp 3

Common garden plants grown for their statuesque presence, self-sowing freely and naturalising on bare waste ground, on walls and cracks in pavements. Very uncommon as an escape in vc. 107.

Euphorbia characias subsp. **characias**

This is the form with 'black eyes' (the glands on the cyathia are dark reddish brown with short points).

Strath Helmsdale	ND021174	rocky stream	05/05/2013
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Euphorbia characias subsp. **wulfenii** (Hoppe ex W.D.J. Koch) Radcl.-Sm.

Euphorbia wulfenii Hoppe ex Koch

This is the form without 'black eyes' (the glands on the cyathia are yellowish with long points), and is the commoner garden escape.

Ferry Road Golspie NH825996 bungalows 16/05/2015

Euphorbia griffithii Hook. f. ● hp 3

A frequent bedding perennial with invasive rhizomes that are often thrown out onto waste ground. The two most commonly cultivated forms are 'Fireglow' (inflorescence bright red) and 'Dixter' (inflorescence orange and leaves dark and luxuriant).

Clashmore	NH747895	village	10/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
Bonar Bridge	NH610914	village street	07/05/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Embo	NH817928	village	08/05/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Clashmore	NH745895	hamlet	17/05/2015

Euphorbia mellifera Aiton *Tree Spurge* ● hp 3

Uncommon as a garden plant, and very rare as an outcast. Apparently not seeding with us.

Dunrobin Castle NC851008 parkland 17/05/2012

ELATINACEAE

Superficially like Portulacaceae, the two waterworts are distinguished by the pedicel 0 or very short in *E. hydrodiper* and stamens 8 (not 6 as in *E. hexandra*). Submerged, non-flowering plants can not be distinguished with confidence. Told from *Callitriche* spp. by the possession of stipules in *Elatine* spp.

Elatine hexandra (Lapierre) DC. *Six-stamened Waterwort* hel 7
Tillaea hexandra Lapierre

Pond margins in very shallow nutrient-poor water, looking like *Callitriche* in the vegetative state. Grows with *Juncus bulbosus* on peaty sites and with *Littorella uniflora* on sandy sites. An annual, fluctuating widely in abundance. It can flower even when submerged. Very local and rare.

NH78

NVC: A 13, 22

SALICACEAE

Species in the family Salicaceae are dioecious, which means that males and females are separate genetic individuals. They also tend to produce their flowers long before their leaves are mature. But to be sure of identification, you need both male and female flowers, plus mature leaves. In order to get male and female material, you need to collect from two different plants. To get flowers and mature leaves, you need to revisit exactly the same individual on two different occasions. This means that

unless you are very careful, you run the risk of collecting male and female specimens, and flower and leaf material from different species. No wonder then that willow and poplar taxonomy has been so confused for such a long time. If you want to identify willows or poplars, then R.D. Meikle's book *Willows and Poplars of Great Britain and Ireland* (1984, BSBI) is essential.

[Populus 'Balsam Spire' Hybrid Balsam-poplar = P. trichocarpa x P. balsamifera]

One of the most commonly planted poplars as a shelterbelt and for screening ugly buildings. This is a female clone with a narrow canopy (subfastigiata) with the lowest branches originating at 45° and no pendant twigs (cf. *P. trichocarpa* and *P. balsamifera*).

Recorded from Easternness and the Moray coast.

Populus alba L. *White Poplar* ● mm 3

Woods, hedges, plantations and damp hedges in small quantity. Much planted, especially in damp places by roads, and suckering extensively to form substantial thickets. The male tree is very rare in Britain. Leaves are mined by *Phyllocnistis xenia*. Occasional in the lowlands.

NC70 NC80 NC90 NH69 NH78 NH89

Wester Lonemore	NH757878	coastal grassland	11/07/2010
Portgower	ND010135	hamlet	07/09/2012
Poles Road Dornch	NH791900	roadside	11/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
Park Terrace Brora	NC905040	village	13/06/2015
Balblair	NH799973	hamlet	12/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

Populus x canescens (Aiton) Sm. *Grey Poplar* = **P. alba x P. tremula** ● mm 3

Populus alba L. var. *canescens* Aiton

Populus x hybrida M. Bieb.

Damp oak, birch and alder woods in small quantity. Told from *P. alba* by the fact that the leaves on the long terminal shoots are toothed (not distinctly palmately 3- or 5-lobed) and the bracts are tattered (not entire or toothed). Although the parent species are both reasonably common in Britain, it appears that most British material of Grey Poplar is vegetatively propagated from introduced plants.

Dunrobin Castle	NC851008	parkland	11/07/2010
The Dump Skibo Castle	NH733889	waste ground	09/05/2011

Populus tremula L. *Aspen* mm 2

Woods, rocky places on heaths and in ravines and on sea cliffs. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC74 NC80 NC81 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Rosehall	NC470021	village	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010

Linsidemore	NH545991	hamlet	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Kildonan Farm	NC910209	farm	11/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Linsidemore	NH540990	woodland	12/07/2011
Oykel Bridge E	NC390000	streamsdee	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
N of Coire Gorm	NC360290	crags	13/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
etc.			

NVC: W 5,6,8,10,16

Populus nigra L. *Black-poplar*

mm 4

Planted. Local and rare.

NC30

[Populus nigra 'Italica' Lombardy Poplar]

● mm 4

Planted and often a conspicuous feature of the landscape. Narrowly fastigate with glabrous shoots. This is a male clone, propagated vegetatively and hence not naturalized.

Populus x canadensis Moench *Hybrid Black-poplar* = **P. nigra x P. deltoides**

● mm 3

Populus x deltoides auct., non Marshall

Populus x serotina Hartig

Populus x canadensis Moench var. *serotina* (Hartig) Rehder

Populus x euroamericana (Dode) Guinier ex Piccarolo, nom. illegit.

Upswept lower branches (not twigs) and leaves with sessile glands near junction with petiole. Stace lists 8 named cultivars ('Gelrica', 'Serotina', 'Regenerata', 'Marilandica', 'Heidemij', 'Eugerei', 'Robusta' and 'I78') but the distribution of these clones within vc. 107 remains to be worked out.

NC60

Badanloch Lodge	NC798333	hamlet	11/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011

Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Burnside	NH609926	lane	09/07/2011
Gordonbush Lodge	NC844096	parkland	10/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Ospisdale House	NH713897	parkland	11/07/2013

Populus trichocarpa Torr. & A. Gray ex Hook. *Western Balsam-poplar* ● mm 3
Populus balsamifera L. subsp. *trichocarpa* (Torrey and A. Gray ex Hook.) Brayshaw

Few or no suckers, these are mostly male plants with rather straight sided leaves (triangular rather than rounded). Often planted in small, even-aged plantations. Told from *P. balsamifera* by its conspicuously angled young branchlets.

Spinningdale Wood NH663890 15/08/1997 Philip Entwistle

NH68

Populus x jackii Sarg. *Balm-of-Gilead* = **P. deltoides x P. balsamifera** ● mm 3
Populus x tacamahacca auct., non Miller
Populus x candicans auct., non Aiton
Populus x gileadensis Roul.

Plantations and hedges on damp soils in small quantities. Young branches rounded, conspicuously pubescent, all female; mature trees suckering freely. Leaves serrate (not crenate) and buds balsam-scented. Includes the variegated *P. x candicans* 'Aurora'. Uncommon. Always planted.

NC40 NC83 NH69

Shinness Lodge	NC530150	hamlet	13/05/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Davochfin	NH778889	hamlet	04/07/2013

Salix matsudana 'Tortuosa' ● m 5

The is the corkskrew willow of gardens. Rare as an outcast. Not self sown.

Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Golspie S	NC824997	village	09/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

Salix pentandra L. *Bay Willow* ● m 5

Wet ground by ponds and streams. Only males are found. The leaves are glabrous and only 2-4 times as long as wide. There are 4 or more stamens. Local and very rare.

NH59

NVC: W 4

Salix fragilis L. *Crack-willow*

o mm 4

River-sides, locally abundant, but uncommon in wet woodland. Mostly planted, but the plants of var. *fragilis* have sparsely hairy young leaves with even serration and are found as both males and females. The var. *furcata* has oddly forked catkins and broad leaves (up to 3cm or more) and is probably a vegetatively propagated sport, the whole population representing a single clone. Another male is var. *decipiens* but its catkins are unforked and it has shiny, very pale coloured twigs. Much the commonest is var. *russelliana* (Sm.) W.D.J. Koch *Bedford Willow* which is female and has long narrow leaves with uneven teeth. The distribution of the varieties in vc. 107 has not been worked out. The leaves are attacked by the conspicuous cherry-red, bean galls of the sawflies *Pontania viminalis* (spherical), *P. pedunculi* (hairy), *P. vesicator* (kidney shaped), *P. proxima* (bean gall), the curious Camellia gall (or rosette gall) of the gnat *Rhoabdophaga rosaria*, and the small white hairy pin galls of *Eriophyes tetanothrix*, branch galls of *Euura amerina* (rough brown) and *Rhabdophaga salicis* (smooth green). The leaves are mined by *Stigmella obliquella* and *Ectoedemia intimella*. The tree is host to one of the biggest of all aphids, *Tuberolachnus salignis*.

This species has an interesting history as an alien invader in countries where it was taken by European settlers in the nineteenth century. In New Zealand, for instance, it is a great nuisance because its fragile shoots break off so easily and root so readily, that vegetative offspring of one plant can rapidly choke an entire watercourse. Almost all the New Zealand trees are male, and may well be from a single clone.

NC40 NC50 NC60 NC70 NC81 NH59 NH78 NH79

Little Rogart	NC732041	hamlet	12/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
Torboll Farm S	NH750980	composite	11/07/2011

NVC: OV 30; W 5,6

Salix x rubens Schrank *Hybrid Crack-willow* = **S. alba x S. fragilis**

A wide range of phenotypes are planted in wet places and by streams and rivers. The plants with yellowish-orange twigs, that glow so conspicuously in winter sunshine, are nothovar. *basfordiana* (Scaling ex S.J.A. Salter) Meikle.

NC30

Kildonan Lodge	NC904223	parkland	17/05/2012
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Salix alba L.

o mm 4

Sides of rivers and pools, damp hedges etc. Occasionally planted in the lowlands. Much less abundant than *Salix fragilis*. Local and rare.

NC50 NC61 ND01 NH59 NH78 NH89

Ospisdale	NH713898	roadside	11/07/2013
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Salix alba var. **vitellina** (L.) Stokes *Golden Willow* mm 4

These willows are grown for the winter interest of their brightly coloured shoots. They are told from the coloured twig cultivars of *Cornus* at once by the buds: willows have alternate buds, and dogwoods have their buds in opposite pairs. Much used in landscaping schemes in towns and planted widely on motorways and dual carriageways.

The classic yellow-twigged willow is var *vitellina*; the shoots need to be cut down to a stump every year or two to ensure the best colour; var *britzensis* has bright orange red twigs and var. *chermesina* has carmine red twigs.

Salix x sepulcralis Simonk. *Weeping Willow* = **S. alba** var. **vitellina** x **S. babylonica**

Salix x babylonica auct., non L.

Salix x sepulcralis Simonkai nothovar. *chrysocoma* (Dode) Meikle

Salix x pendulina Wender. var. *elegantissima* (Koch) Meikle

Much confused in the past. A key to the 6 different Weeping Willows is on p.59 in Meikle (1984). The key features you need to note are these: whether the catkins are sessile or pedunculate, whether the leaves are finely or coarsely serrate, whether the twigs are golden and very pendulous or olive and not very pendulous, whether or not the ovary has short hairs at the base, and whether the ovary is subsessile or distinctly pedicellate. I hope you have got all that.

Bonar Bridge C	NH610914	village	07/05/2011
Ospisdale House	NH713897	parkland	11/07/2013
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015

[Salix triandra L. *Almoned Willow*] m 3
Recorded from Easternness and the Moray coast.

Salix purpurea L. *Purple Willow* m 3
Salix purpurea L. subsp. *lambertiana* (Smith) Macreight

Rarely planted.

NC40 NC60 NH78

[Salix x rubra Huds. *Green-leaved Willow* = **S. purpurea** x **S. viminalis**]

This hybrid is usually planted, but it can occur spontaneously when the parents grow together. Sometimes indicates the presence of former osier beds, as it was once a popular willow with basket makers. Told from the parents by the green under-leaves (*S. viminalis* is sericeous beneath) and the pubescence of young stems and leaves (*S. purpurea* is glabrous). It has bright red anthers.

Recorded from Easternness and the Moray coast.

[Salix daphnoides Vill. *European Violet-willow*] n 4

Recorded from Easternness and the Moray coast.

Salix viminalis L. *Osier* n 4

Pond-sides, marshes, meadows, in the lowlands. Often planted as a weather-proof hedge and shelter belt for garden borders. Locally frequent.

NC60 NC70 NC73 NC80 NC81 NC83 NC90 NC91 NC92 ND01 NH68 NH78 NH79 NH89

Inveran	NH560970	wetland	12/07/2011
Killin	NC855070	hamlet	10/09/2012
North Tannachy	NC750083	hamlet	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Kirkton	NC913207	hamlet	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
back of dunes Brora	NC909036	sand dunes	09/09/2012
West Shinness Lodge	NC530151	hamlet	08/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
Knockdhu	NC599059	roadside	02/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Kinbrace Station Cottage	NC862316	garden	12/07/2013
Dalchalm	NC909054	gravel	19/06/2015
Lochside Achantoul Lodge	NC873355	hamlet	19/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Achnaluachrach	NC675099	wet grassland	13/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Preas nan Sgiathanach	NC686095	hamlet	13/06/2015

NVC: W 1,5,6

Salix elaeagnos Scop. *Olive Willow*

• m 4

This is the very narrow leaved, grey-foliaged bush beloved of landscapers. It has strongly revolute leaf margins and the stamen filaments are fused from the base to half way up. It is told from *S. viminalis* by the fact that the underleaf hairs are matted (not appressed) and the catkin scales are yellowish (not reddish brown).

Loth Station Cottage NC959101 cottages 11/07/2010

Salix x holosericea Willd. *Silky-leaved Willow* = *S. viminalis* x *S. cinerea*

m 3

Known by its persistently and densely hairy twigs.

Loch Front Lairg NC581062 loch shore 02/07/2013

Salix caprea L. *Goat Willow*

m 3

Salix caprea subsp. **caprea**

Woods, hedges, river-sides and damp waste ground in towns and on railway embankments; common and generally distributed.

NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC60 NC70 NC71 NC80 NC90 NC91 NC92 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: W 4,6,8,14

Salix x reichardtii A. Kern. = **S. caprea** x **S. cinerea**

m 4

Common and widespread. A highly variable and puzzling series of phenotypes linking both parents. Often more common than *S. caprea* at any given site.

Strath of Kildonan	NC926196	03/08/1999	BSBI
Balnacoil Lodge	NC804113	06/08/1999	BSBI

NC81 NC90 NC91 NC92

Clashmore	NH747895	village	10/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Shin Falls	NH577993	woodland	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Corrieinloch Hydro	NC398253	hamlet	08/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
Raemore Wood Gruids	NC531049	conifer plantation	24/06/2014

Salix cinerea L. *Sallow*

m 3

Salix cinerea subsp. **oleifolia** Macreight *Rusty Sallow*

Salix atrocinerea Brot.

Salix oleifolia Smith, non Villars

Salix cinerea L. subsp. *atrocinerea* (Brot.) Piraj. and Sobrinho

Damp wood margins, fens, swamps, hedges, ditches, streams, ponds, gravel pits, railway banks and waste ground in towns; locally frequent in a very wide range of habitats. The leaves are narrow with some to many stiff, rust coloured hairs underneath, and often very strongly wavy (undulate or crispate) margins. The stipules are most confusing; they may be large or small, persistent or caducous (falling off early). Much the commonest lowland willow.

NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC63 NC70 NC71
NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79
NH89

NVC: M 22, 24, 25, 29; OV 26, 30, 35; S 1, 4, 15, 25; W 1, 4, 5, 6, 8, 21

Salix aurita L. *Eared Willow* n 4

Damp woods and moorland. Much the commonest upland willow.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: W 4,5

Salix x ambigua Ehrh. = **S. aurita x S. repens** n 4

Occasional where the parents occur together from low altitudes to high.

Strathstevan NC885020 11/07/1983 BSBI det. R.D. Meikle

NC60 NC71 NC80

Glen Sletdale	NC931124	flush	01/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013

Salix x coriacea J. Forbes = **S. aurita x S. myrsinifolia** n 4

Ben Griam Beg 15/07/1962 BSBI det. R.D. Meikle

NC84

Salix x sericans Tausch ex A. Kern. *Broad-leaved Osier* = **S. caprea x S. viminalis** n 4

Salix x laurina auct., non Smith
Salix x smithiana auct., non Willd.

Brora NC903051 04/08/1999 BSBI

NC90 ND01

Salix x multinervis Doll = **S. cinerea x S. aurita** n 4

Locally frequent. One of the commonest of the hybrids.

NC40 NC43 NC51 NC52 NC60 NC70 NC80 NC81 NC90 NC91 NC92 ND01 NH69 NH79

PROSAMO sites Sallachy	NC560065	birch wood	02/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Embo Muir	NH800925	lane	04/07/2013

Salix myrsinifolia Salisb. *Dark-leaved Willow*
Salix nigricans Sm.

n 4



By streams in damp rocky places. Local and rare.

NC40 ND01

Salix phylicifolia L. *Tea-leaved Willow*
Salix hibernica Rech. f.

n 4



Wet rocks and streamsides in the mountains. Occasional.

NC31 NC40 NC60 NC61 NC70 NC71 NC81 NH79

Coire na Saidhe Duibhe	NC692281	rocks	07/07/1998	Gordon Rothero
Tuiteam	NC436013	hamlet	12/07/2010	
Linsidemore Wood	NH498998	riverbank	12/07/2010	
Altass Swamp	NH504992	swamp	12/07/2011	
Kildonan birch wood	NC909204	birch wood	09/09/2012	
Coille Sron Na Croiche	NC455013	pinewood	19/05/2012	
Glen Sletdale	NC935125	stream bank	01/07/2013	
Loch Shin	NC529118	rocky shore	02/07/2013	
Torrish Burn Kildonan	NC969187	ravine birch wood	05/07/2013	
Black Water	NC719177	streamside crag	10/07/2013	
Coire na Saidhe Duibhe	NC695282	crag	12/07/2013	
Allt an Tireidh	NC442320	rocky stream	26/06/2014	
Allt Dail Bhaich	NC901211	rocky stream	20/06/2015	
Achnaluachrach	NC675099	wet grassland	13/06/2015	
Preas nan Sgiathanach	NC686095	hamlet	13/06/2015	

Salix repens L. *Creeping Willow*

Salix arenaria L.

Salix repens L. subsp. argentea (Smith) Camus and A. Camus

n 4

Widespread and common in contrasting varieties in two contrasting habitats:

var. repens: damp and wet heaths

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Glen Loth	NC945111	dry heath	08/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
Craggie road junction	NC744075	roadside	10/09/2012
Alltnacaorach Loch Shin	NC506181	wet heath	08/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Coille Sron Na Croiche	NC455013	pinewood	19/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Glen Sletdale	NC931124	flush	01/07/2013
Allt Salachaidh Sallachy	NC547089	wet heath	02/07/2013
N of Sallachy	NC544095	wet heath	02/07/2013
Allt Bad a'Ghordanaich	NC495151	wet heath	02/07/2013
Allt Car Beag Loch Shin	NC480162	wet heath	02/07/2013
Allt a'Bhann Loch Shin	NC515127	wet heath	02/07/2013
The Airde Loch Shin	NC525142	dry heath	02/07/2013
former caravan park Hilton	NH807915	grassland	04/07/2013
Cnoc na Sguaibe	NC692103	wet heath	07/07/2013
Meall Achadh na Luachred	NC677108	wet heath	07/07/2013
Creag Dalfeufaig	NC703113	wet heath	07/07/2013
Cnoc Blar an Dubhaidh	NC719112	dry heath	07/07/2013

Black Water	NC719177	streamside crag	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Ben Tarvie	NH750963	crags	11/07/2013
Meall nan Aighean	NC693307	wet heath	12/07/2013
Creag Mhor Ben Armine etc.	NC702238	crags	12/07/2013

NVC: M 16,24

var. argentea: dune slacks

NC30 NC31 NC32 NC33 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 ND01 NH59 NH68 NH69 NH78
NH79 NH89

Coul Links	NH805946	dune slacks	11/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Lothmore gravel pi t	NC970105	pond	12/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
Coul Links	NH804948	dune slacks	04/07/2013
Coul Links	NH805951	heather dunes	04/07/2013

SD 13, MC 10

Salix lapponum L. *Downy Willow*

n 4



Wet rocks in the mountains. Local and rare.

Creag Mhor		15/07/1963	D.A. Ratcliffe
Creag na h'Uidhe	NC383372	07/06/1973	A.G. Kenneth det. R.D. Meikle
Carn Dearg		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Coire na Saidhe Duibhe	NC692281	07/07/1998	Gordon Rothero
Gorm Loch Mor	NC701238	18/07/1999	Gordon Rothero
Creag na h-Uidhe 410m	NC386365	27/07/2010	Mark Jannink

NC32 NC33 NC62 NC72 NH89

Coire na Saidhe Duibhe	NC689285	crag	12/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013

Salix lanata L. *Woolly Willow*

n 4

One of Scotland's rarest and most charismatic plants. Confined as a native to the Central Highlands, but quite widely grown in gardens and sometimes found as an escape or a relic. It has the misfortune to be highly palatable to both sheep and deer, and so has been eliminated in all but the most inaccessible places.



Biblical Gardens Golspie NC837001 garden 05/07/2013

Skibo Castle S front	NH737890	parkland	11/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Salix myrsinites L. *Whortle-leaved Willow*

n 4



Salix myrsinites rbge.org.uk willow gallery

Basic rock ledges in the mountains. Local and uncommon.

Ben Griam Mor	11/07/1900	Shoolbred, W.A. NMW
Ben Griam Mor	15/07/1962	M. McC. Webster

NC31 NC81 NC83 NC84

Ben Griam Mor SW crags	NC802389	crags	15/07/2011
Creag Dhubh	NC807391	crags	15/07/2011
Creag Dhubh	NC808390	crags	15/07/2011
Creag Dhubh	NC807391	crags	15/07/2011

Salix myrsinites var. procumbens

Ben Griam Mor	11/07/1900	Shoolbred, W.A. NMW
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Salix herbacea L. *Dwarf Willow*

n 4



Salix herbacea Carl Farmer

Bare ground and rock ledges in the mountains. Locally frequent.

Ben Hee		07/06/1973	A.G. Kenneth
Carn Dearg		07/06/1973	A.G. Kenneth
Ben Horn	NC808064	07/06/1983	BSBI det. R.D. Meikle
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero

NC31 NC32 NC33 NC40 NC41 NC43 NC52 NC62 NC63 NC72 NC80 NC83 NC84 NC91

Ben Griam Mor N-facing	NC803389	crag	21/06/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Ben Hee	NC424338	mountain ridge	13/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Creag Dhubh	NC800390	composite	15/07/2011
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Ben Horn summit ridge	NC807064	summit heath	06/07/2013
Ben Horn E crags	NC810062	conglomerate	06/07/2013
Coire na Saidhe Duibhe	NC689285	crag	12/07/2013
Coire na Saidhe Duibhe	NC695282	crag	12/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013
Ben Hee NE slope	NC420330	upland	29/05/2014
Beinn an Eoin summit	NC392083	summit heath	28/06/2014
Beinn an Eoin summit	NC388082	summit heath	28/06/2014

Salix herbacea x **S. repens**

Oykel Bridge NC 39 00 08/07/1908 Shoolbred, W.A. **NMW**

VIOLACEAE

Viola odorata L. *Sweet Violet*

• hr 2

Woodland plantations on nutrient-rich soils, hedgerows, wood borders, open coppices and churchyards. Local and rare in vc. 107. Early flowering, sometimes repeat flowering in autumn. Flower colour varies from blue, purple, lilac and peach to pure white. All of the populations are garden escapes or relics of planting.

St Aethans Invershin	NH578958	roadside	12/07/2010
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013

Viola hirta L. *Hairy Violet*

hr 3 †

Viola calcarea (Bab.) Gregory

Hedge-banks, wood-borders, grassy places. Stolons absent, long spreading hairs on the petiole (0.3-1mm). Very local and rare. No recent records.

NC70

Viola riviniana Rchb. *Common Dog-violet*

hs 4

Woods, banks, acid grasslands and heathy places. Common and generally distributed. Note that the plant sometimes recorded as the purple-leaved alien garden escape *Viola labradorica* often turns out to be *V. riviniana* 'Purpurea' group (below).

NC50 NC60 NC70 NC74 NC80 NC82 NC83 NC84 NC90 NC91 ND01 NH59 NH78 NH79 NH89

Carnegie Golf Course	NH742872	Cladonia heath	10/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Killin Rock	NC861054	birch wood	10/09/2012
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Kildonan birch wood	NC909204	birch wood	09/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012

Coille Sron Na Croiche	NC455013	pinewood	19/05/2012
Coill a Chnocain	NC446014	oak woodland	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Innisnabioraich	NC374011	riverbank	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Golspie Burn	NC829020	oak birch woodland	18/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
The Bank Rogart	NC734028	birch wood	18/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Embo dune slacks	NH815933	dune slacks	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Glen Loth	NC943118	streamside	17/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Coille Bad Mheasain	NC937132	birch wood	17/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Allt a Choire Mhoir	NC915180	streamside	17/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Loist Kildonan	NC914200	railway	17/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Achue	NH681904	birch wood	16/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Shin Creek Achany	NC574001	woodland	16/05/2012
Achany Glen	NC570020	woodland	16/05/2012
etc.			

NVC: CG 2; U 20; W 8,10,14,21-25; M11, 38; H 6-8, 10-12, 15-21

Viola riviniana 'Purpurea'

Camore	NH778903	council houses	12/07/2010
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Lonemore	NH764884	hamlet	17/05/2015

[*Viola x intersita* Beck = *V. riviniana* x *V. canina*]

Heaths and dunes.

Recorded from Easternness and the Moray coast.

Viola canina L. *Heath Dog-violet*

Viola canina subsp. **canina**

Dunes, coastal heaths and dry banks. Very local and on the coast. No recent records.

NC32 NC80

NVC: SD 7, 11

Viola palustris L. *Marsh Violet*

hr 4

Marshes, bogs, alder swamps, birch woods, stream-sides, wet portions of heaths, rushy places, upland grasslands, preferring peaty soils; widespread and very common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH69 NH79

Knock Craggie	NC328054	roadside	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Glen Cassley swimming hole	NC413116	stream	10/05/2011
Glen Cassley	NC455050	riverbank	10/05/2011
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Loch Gaineamhach	NC515258	wet heath	11/05/2011
Loch Gaineamhach	NC515258	loch side	11/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch an Ruathair	NC871357	loch side	11/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Ben Uarie wet heath	NC933159	wet heath	09/09/2012
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Alltnacaorach Loch Shin	NC506181	wet heath	08/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Creag an Sgamhlainn	NC370328	disturbed ground	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Coille Sron Na Croiche	NC455013	pinewood	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Strath Carnaig	NH716982	birch wood	18/05/2012
Glen Loth	NC943118	streamside	17/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Allt a Choire Mhoir	NC915180	streamside	17/05/2012
etc.			

NVC: M 24,27; S 1,3; W 4,5

Viola cornuta L. *Horned Pansy*

th 4

An attractive garden escape. Local and rare, but competitive with dense grass.

NC80 NC83

Kinbrace	NC863319	derelict garden	11/05/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Skibo Castle S front	NH737890	parkland	11/07/2013

White-flowered plants are quite rare:

Skibo Castle S front	NH737890	parkland	11/07/2013
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Viola lutea Huds. *Mountain Pansy*

th 4

Mountain grasslands. Local and rare. No recent records.

NC51 ND01 NH59 NH89

Viola tricolor L. *Wild Pansy*

th 4

Viola tricolor subsp. **tricolor**

Viola lepida sensu E.G. Baker et auct., non Jordan

Cultivated ground, common in light sandy soils on disturbed waste ground in towns and villages, sometimes appearing as a lawn weed where the turf has become thin. No rhizomes (or ill-developed).

NC50 NC60 NC70 NC74 NC80 NC82 NC83 NC84 NC90 NC91 ND01 NH59 NH78 NH79 NH89

Golspie Main Street	NH831999	street	11/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Rogart Station	NC724019	railway	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Railway at vc 107 boundary	NC878403	railway	15/07/2011
Grange Road Dornoch	NH800896	village	29/06/2014
Dalchalm	NC911059	hamlet	19/06/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

Crask Inn	NC523246	hamlet	13/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

NVC: OV 1,27; U 1

Viola tricolor subsp. **curtisii** (E. Forst.) Syme

th 4



Viola tricolor subsp. *curtisii* Hans Hillewaert

Local and uncommon in coastal dunes. Known by its well-developed rhizomes.

NC60 NC80

Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
North of Scotland Kart Club	NH819976	links	14/05/2011
Golspie Caravan Park	NH821982	links	14/05/2011

[**Viola x contempta** Jord. = **V. tricolor** x **V. arvensis**]

Recorded from Easternness and the Moray coast.

Viola x wittrockiana Gams ex Kappert *Garden Pansy*
Viola x hortensis auct., non Schur

• th 1

Common in almost every garden, often self-seeding and frequently escaping.

Helmsdale Main Street	ND027153	street	06/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Camore	NH778903	council houses	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Borrobol Lodge	NC871264	estate woods	13/07/2011
Helmsdale	ND026154	village	05/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015
Dalchalm	NC911059	hamlet	19/06/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Rosehall	NC470021	village	10/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Lonemore	NH764884	hamlet	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

Viola arvensis Murray *Field Pansy*

Viola obtusifolia sensu Drabble et auct., non Jordan

Viola arvatica sensu Drabble et auct., non Jordan

o th 4

Dry arable fields, disturbed ground and rubbish tips; uncommon in the lowlands.

NC50 NC51 NC70 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH89

Camore Wood	NH771894	gravel pit	11/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Back Road Golspie	NC829000	council houses	07/09/2012
Carnegie Golf Course	NH732872	works gate	08/05/2013
Hilton	NH804915	hamlet	04/07/2013
Coul	NH801947	roadside	04/07/2013
Dynderhall Farm Cuthill	NH764892	arable	04/07/2013
Dornoch High Street	NH795897	cultivated ground	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
roadside N of Dornoch	NH800903	disturbed ground	21/06/2015

River Street Dornoch	NH799893	bungalows	17/05/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015

NVC: OV 1,3,4,7,9,10,12,21,33

LINACEAE

Linum usitatissimum L. *Flax*

• th 5

Waste places, rubbish heaps, on ballast by the railway. Very local and rare.

NC50

Linum catharticum L. *Fairy Flax*

th 6

Dry pastures, heaths, dunes and moors. Widespread and common.

The Airde Shinness	NC522130	15/07/1974	J.E. Kirby
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NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH68 NH69 NH78
NH79 NH88 NH89

Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Crackaig Links	NC960100	coastal grassland	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH801958	Cladonia heath	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Loanboadich	NH608944	grassland	18/06/2011
Royal Dornoch car park	NH800894	waste ground	18/06/2011
Rimsdale Forest	NC748390	roadside	20/06/2011
Loch Badanloch outflow	NC789331	loch side	20/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Golspie Links	NH822983	sand dunes	23/06/2011
Embo dune slacks	NH816931	dune slacks	23/06/2011
Embo sand dunes	NH816938	sand dunes	23/06/2011
Crackaig Links	NC958097	sand dunes	23/06/2011
Strath Fleet	NC623056	roadside	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Mound Rock	NH770980	composite	11/07/2011

Torboll Farm NW	NH740990	composite	11/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Hill of Ord Lairg	NC577055	plantation	15/07/2011
Ben Griam Beg E side	NC850412	crag	15/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Creag Dhubh	NC801389	crag	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Lairg Station	NC583039	railway	06/09/2012
Dornoch Firth Bridge	NH747871	roadside	30/06/2013
Dornoch Wind Sock	NH800883	dune slacks	30/06/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Sron Lom Glen Cassley	NC358208	crag	03/07/2013
Coul Links	NH804948	dune slacks	04/07/2013
opposite Ulbster Kildonan	NC957185	ravine birch wood	05/07/2013
Creag Dalfeufaig	NC703113	wet heath	07/07/2013
Grumby Rock	NC704100	crag	07/07/2013
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
Braegrudie Strath Brora	NC717105	riverbank	07/07/2013
Achvaich	NH710941	riverbank	09/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
West Rearquhar	NH732931	heathy bank	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Feith Bhuide	NH690905	pine plantation	11/07/2013
Ben Tarvie path	NH760963	dry heath	11/07/2013
Braemore Grudie Burn	NC539031	Schoenus flush	24/06/2014
The Carnegie Road Garvary	NH635990	wet grassland	25/06/2014
Leathad Creagach	NC624028	wet heath	25/06/2014
Loch Cracail Mor	NC623022	loch	25/06/2014
Grudie Burn	NC552034	stream bank	24/06/2014
N of Braemore Grudie Burn	NC548031	inbye grassland	24/06/2014
Loch Buidhe inflow delta	NH652983	loch shore	25/06/2014

A389 Braemore Grudie Burn	NC543026	roadside	24/06/2014
Oykel Bridge v.c. 107 bank	NC385009	riverbank	12/05/2015
Creag Thoraraidh road	ND033184	tarmac	14/06/2015
Beinn Dubhain Helmsdale	NC937207	dry heath	17/06/2015
Blar Buidhe Helmsdale	NC956212	wet heath	17/06/2015
Creag nan Gearr	NC956244	summit heath	17/06/2015

NVC: CG 2-5; M 13,24; MG 1

Radiola linoides Roth *Allseed*

th 7

Millegrana radiola Mihi

Bare sandy soil at the coast. Local and rare.

Golspie	15/07/1957	M. McC. Webster
Silver Rock	15/07/1983	J.K. Butler
Loch Brora	15/07/1987	J.K. Butler

NC40 NC70 NC80 ND01 NH79 NH89

Dornoch Links W	NH780880	sandy track	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011

NVC: MC5

HYPERICACEAE

Hypericum calycinum L. *Rose-of-Sharon*

• chw 7

Hedges, shrubberies, plantations. One of the commonest ground cover plants for banks and hedge-bottoms; completely rabbit proof. Widespread in gardens in towns and villages throughout the county and commonly found in ditches, roadsides and waste ground. Long persistent in old abandoned gardens. Mostly planted, and much less frequently self-sown (it seldom sets viable seed).

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Bonar Bridge	NH611911	suburbia 1	2/07/2010
Camore	NH778903	council houses	12/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012

Hilton	NH804915	hamlet	04/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
River Street Dornoch	NH799893	bungalows	17/05/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Clashmore	NH745895	hamlet	17/05/2015

The two big shrubby hypericums with single, showy flowers are told apart as follows:

- | | |
|---|---------------------|
| 1. Flowers 6cm dia., anthers orange, styles longer than ovary | H. 'Hidcote' |
| 1. Flowers 5cm dia., anthers yellowish white, styles shorter than ovary | H. forrestii |

Hypericum 'Hidcote' = probably **H. cyathiflorum 'Gold Cup'** x **H. calycinum** • n 7

This is the common shrubby *Hypericum* of gardens. It has large golden flowers and pointed, neatly ranked narrow leaves. Its sterility means that it does not regenerate from seed, so all the plants found outside gardens must be outcasts or relics of cultivation. Not uncommon in towns, but never far from buildings. The flowers are 6cm across and the anthers are orange (not whitish yellow; see below).

Bonar Bridge	NH611911	suburbia	12/07/2010
Embo Street Hilton	NH800913	hamlet	10/07/2011
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012

[Hypericum forrestii (Chitt.) N. Robson *Forrest's Tutsan*] • n 6

An uncommon garden plant, occasionally persistent in old gardens and rarely self sown outside. The plant has 5 styles (like *H. calycinum* but unlike *H. androsaemum* which has 3 styles) and the stem has no ridges (*H. calycinum* has 4-lined stems). The sepals have rounded rather than pointed tips and the plant is not rhizomatous (in contrast to *H. calycinum*). The stamens are whitish yellow (not orange as in *H. 'Hidcote'*).

Recorded from Easternness and the Moray coast.

Hypericum androsaemum L. *Tutsan* • n 6

Woods by the sea, very local and uncommon. The sheltered gullies of Ballinreach SSSI are clearly a favoured site for this rare native species.

Ballinreach gorges SSSI	NC935092	22/09/1982	J.J. Mitchell
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NC80 NC90 ND01 NH69

Allt Choll Ballinreach	NC935090	Kimmeridgian cliffs	23/06/2011
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Less often planted outside gardens than *H. calycinum* and then usually as *H. x inodorum* (see below; our earlier records (hectads, above) of *H. androsaemum* need to be checked).

Hypericum x inodorum Mill. *Tall Tutsan*
Hypericum x elatum Aiton

• hp 6

An occasional throw-out from gardens, and sometimes naturalized in damp shade or full sun. Like *H. androsaemum* but with bigger petals (7mm wide) and sepals (4mm wide) and stamens slightly longer than the petals. The commonest cultivar is 'Elstead' which has fleshy red fruits that go black with age. Mass-planted in landscaping schemes. Commonly self sown on walls, pavements and waste ground. Occasionally naturalized on woodland edges.

Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Linsidmore	NH545991	hamlet	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Back Road Golspie	NC829000	council houses	08/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Stafford Terrace Brora	NC904042	waste ground	07/09/2012
Brora Bridge	NC905039	river gorge	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Drummuie Offices Golspie	NH816995	hamlet	04/05/2013

Biblical Gardens Golspie	NC837154	garden	05/07/2013
Duke Street Golspie	NC839245	suburbia	06/07/2013
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
Dunrobin Castle stone walls	NC850789	stonework	06/07/2013
Navidale Cemetery	ND042161	cemetery	07/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Dalchalm	NC911059	hamlet	19/06/2015
Gallows Hill Dornoch	NH803901	derelect garden	21/06/2015
Golspie Big Burn	NC840008	woodland	11/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Ravens Rock	NC496008	conifer plantation	10/05/2015
Ben Bhraggie Wood	NC818007	conifer plantation	11/05/2015
Road br. Golspie Big Burn	NC840005	woodland	10/05/2015
Railway br. Golspie Big Burn	NC840007	woodland	10/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Navidale Stream	ND042160	stream	17/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015

Hypericum hircinum L.. *Stinking Tutsan*

• hp 6

A rare garden plant and an even rarer escape.

Biblical Gardens Golspie	NC837001	garden	07/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012

Hypericum perforatum L. *Perforate St John's-wort*

hp 6

Grassland, waste places, open woods, woodland rides, hedges, bushy places on heaths, waysides; preferring sunny situations. Local and uncommon.

ND01 NH78

Linsidemore	NH545991	hamlet	12/07/2010
Kildonan Station	NC901217	railway	11/05/2011
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Lairg Station	NC583039	railway	06/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Brora Industrial Estate	NC905412	waste ground	07/05/2013
Sunny Bank Dornoch	NH799903	derelect garden	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Brora Industrial Estate	NC905418	waste ground	07/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Park Terrace Brora	NC905040	village	13/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

NVC: MG 1,9; W 8

Hypericum x desetangsii Lamotte = **H. perforatum x H. maculatum** *Des Etangs' St John's-wort*

Told from *H. perforatum* by the sepals which are toothed (not entire) towards the apex and not drawn out into a long point, and from *H. maculatum* by the leaves which are hairless beneath and the stem with 2 raised lines (not 4). Local and rare.

Loch Fleet	NH780959	06/09/1998	P. Eaglesfield det. J.K. Butler
Lairg	NC583065	07/08/1999	BSBI

NC50 NH79

Hypericum maculatum subsp. **maculatum** Crantz *Imperforate St John's-wort* hp 6
Hypericum quadrangulum sensu L.(1754), non L.(1753)

Wet ditches, brook-sides, wood margins, very local and in small quantity. Told by its long petals (more than twice the length of the obtuse sepals), and its 4-ridged but unwinged stems. Inflorescence branches at 30 degrees. Sepals 2-3mm wide. The relative abundance of the two subsp. in vc. 107 needs to be worked out.

NC31 NC50 NH79

Hypericum maculatum subsp. **obtusiusculum** (Tourlet) Hayek hp 6
Hypericum quadrangulum L. subsp. *obtusiusculum* Tourlet
Hypericum dubium Leers

Wet ditches, brook-sides, wood margins, very local and in small quantity. Told by its long petals (more than twice the length of the obtuse sepals), and its 4-ridged but unwinged stems. Inflorescence branches at 50 degrees. Sepals 1.2-2mm wide.

Lairg	NC584065	15/07/1956	John Anthony
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NC50

Hypericum tetrapterum Fr. *Square-stalked St John's-wort* hp 6
Hypericum quadrangulum L.

Marshes, wet grasslands, river-banks, lake margins, waste ground and brook-sides; uncommon and local.

NC50 NC60 NC91 ND01

N Brora	NC904051	bungalows	12/05/2011
Mound Rock	NH770980	composite	11/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Brora Industrial Estate	NC905412	waste ground	07/05/2013
Kyloag	NH660911	hamlet	08/05/2015

NVC: M 13,22,24; OV 26; W 5

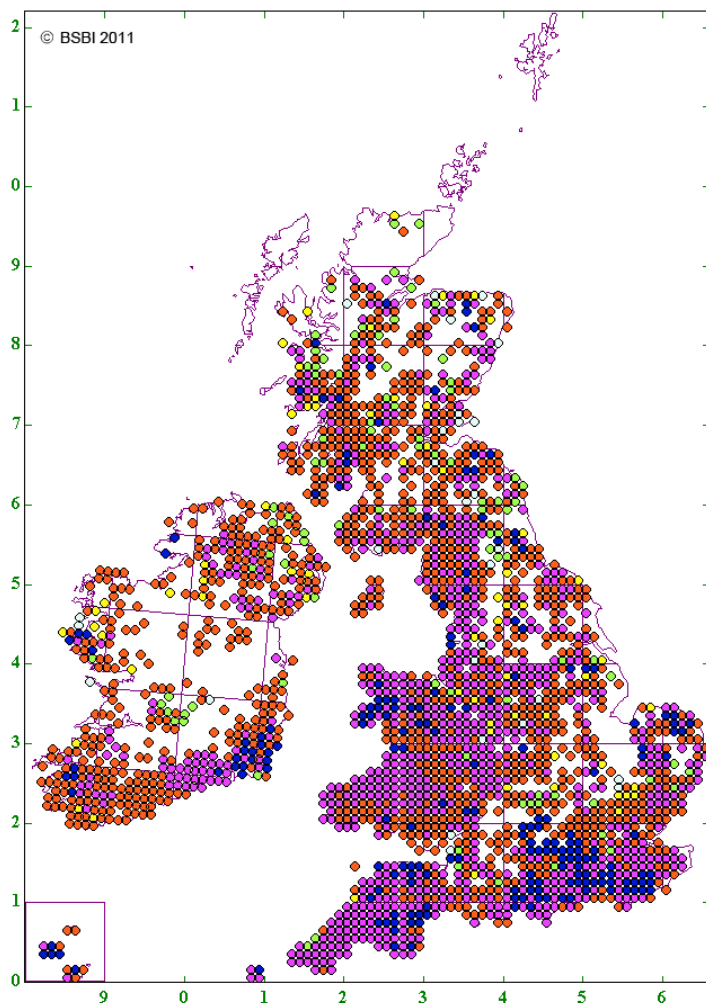
Hypericum humifusum L. *Trailing St John's-wort*

chh 6

Heaths, forest rides, dry pastures on gravelly soil, sandy fields, and close-mown lawns on acid soils. Paths and disturbed ground in heaths and woods on acid soils. Usually prostrate. Told from a small *H. pulchrum* by its unequal sepals (2 shorter and narrower than the other 3) and shorter petals (less than twice as long as the sepals). Local and rare, with no recent records (the two records (below) may well be mis-identifications).

NC74 NH69

NVC: H 6



As you can see from the distribution map (above), this species neatly avoids all of vc. 107.

Hypericum pulchrum L. *Slender St John's-wort*

hp 6

Heaths, ditch banks and dry places in woods on acid soils. Usually upright. Told from the usually prostrate *H. humifusum* by its longer petals (more than 2 times as long as the sepals) and equal sepals (not sepals of 2 distinct sizes). Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59
NH68 NH69 NH78 NH79 NH89

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Longuish Road Junction	NH644919	waste ground	10/07/2010
Longuish Road Junction	NH644919	wet heath	10/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Knock Craggie	NC329056	wet heath	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Glen Cassley swimming hole	NC413116	stream	10/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
East Clyne	NC893062	stream	12/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Achentoul Forest	NC881384	railway	19/06/2011
Achentoul Burn	NC892326	gorge	19/06/2011
Rimsdale Forest	NC748390	roadside	20/06/2011
Above the pony track	NC790389	wet heath	21/06/2011
Ben Griam Mor W-facing	NC801389	crag	21/06/2011
Ben Griam Mor NW-facing	NC797395	crag	21/06/2011
Biod Eag	NC780403	dry heath	21/06/2011
Biod Eag	NC780402	crag	21/06/2011
Cnoc na h-lolaic	NC692348	forest	21/06/2011
Beinn Rosail crags	NC704406	crag	22/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Dunrobin Glen	NC812038	stream	22/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Birichen	NH765923	roadside	09/07/2011
Tulloch	NH613925	ditch	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Balvraid Wood	NH775940	plantation	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011

The Schoolhouse Balvraid	NH768954	hamlet	10/07/2011
Mound Rock basal woods	NH780985	woodland	10/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Skelbo Wood	NH731943	plantation	10/07/2011
Skelbo Wood	NH784941	plantation	10/07/2011
Mound Rock crags	NH780985	crags	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidmore	NH540990	woodland	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Borrobol Forest	NC803255	woodland	13/07/2011
Sgialach Coire	NC370290	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Hill of Ord Lairg	NC577055	plantation	15/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Creag Dhubh	NC800390	composite	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Lairg Station	NC583039	railway	06/09/2012
Raemore Woods	NC540023	streamside	19/05/2012
Coille Sron Na Croiche	NC455013	pinewood	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012

Craggie Water	NC913192	rocky stream	17/05/2012
Loist Kildonan	NC914200	railway	17/05/2012
Strath Helmsdale	ND022171	birch wood	05/05/2013
Big Burn Backies	NC834014	woodland	05/05/2013
Loch Brora	NC856790	stream bank	05/05/2013
Caplich Estate	NC358212	birch wood	06/05/2013
Carn Garbh Glen Sletdate	NC906142	crag	01/07/2013
Carn Garbh Glen Sletdate	NC906134	crag	01/07/2013
Loch Shin	NC529118	rocky shore	02/07/2013
PROSAMO sites Sallachy	NC560656	birch wood	02/07/2013
Sron Lom Glen Cassley	NC358208	crag	03/07/2013
Glen Cassley Hydro	NC369201	dry heath	03/07/2013
Camore Wood	NH770893	quarry	04/07/2013
Druim nan Comhrag	NC901261	streamside	05/07/2013
Suisgill Burn	NC904269	ravine birch wood	05/07/2013
Torrish Burn	NC969187	ravine birch wood	05/07/2013
Meall Achadh na Luachred	NC677108	wet heath	07/07/2013
Cnoc na Sguaibe	NC692103	wet heath	07/07/2013
Creag Dalfeufaig	NC703113	wet heath	07/07/2013
Grumby Rock	NC704100	crag	07/07/2013
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
R Brora W of Braegrudie	NC715101	riverbank	07/07/2013
Braegrudie Strath Brora	NC717105	riverbank	07/07/2013
Cnoc Blar an Dubhaidh	NC719112	dry heath	07/07/2013
Coill' an Tosgaire Oykel	NC340515	riverbank	09/07/2013
Coill' an Tosgaire Oykel	NC344500	birch wood	09/07/2013
Achormlarie Forest	NH693949	forest road	09/07/2013
West Rearquhar	NH732931	heathy bank	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Coirfrois Burn Pollie Hill	NC751152	stream	10/07/2013
Ben Tarvie	NH750963	crag	11/07/2013
Ben Tarvie path	NH760963	dry heath	11/07/2013
etc.			

NVC: H 3; M 13; W 14

[**Hypericum hirsutum** L. *Hairy St John's-wort*]

hp 7

Woods, copses, hedgerows and grassland. Told from *H. maculatum* by the latter's hairless stems.

NVC: CG 4; W 8,12

Recorded from Easternness and the Moray coast.

GERANIACEAE

Geranium endressii group J. Gay *French Crane's-bill*

• hs 6

The *endressii* group consists of perennials with compact or creeping (but long persistent) rhizomes that are often thrown out of gardens, and survive on waste ground, rough grass, hedge-banks and ditches in villages and towns throughout vc. 107. The naturalised pink-flowered *Geraniums* have all tended in the past to be recorded as *G. endressii*, but it is clear that several different taxa are involved. The details of their distributions have yet to be worked out, but *G. endressii* is rare and *G. x oxonianum* is common. True *G. endressii* has the veins and petals the same shade of deep pink (not contrasting, as in several of the others; see below). The cultivar 'Wargrave Pink' has bright salmon coloured, distinctly notched petals and grows to twice the height of *G. endressii* when grown in full sun. **Geranium x oxonianum** Yeo *Druce's Crane's-bill* combines characters of *G. endressii* and *G. versicolor*, with funnel-shaped flowers, pink petals with a darker network of veins, notched at the apex; it is the most frequent outcast. The cultivar 'Claridge Druce' is a very vigorous, strongly hairy plant, with rosy pink petals up to 26 x 14mm. **Geranium x riversleaianum** Yeo is a trailing hoary perennial grown for ground cover and hence often thrown out when it outgrows its welcome. The cultivar 'Russell Pritchard' has flowers of 3cm diameter of rich magenta and is the most commonly seen. See Yeo (1985) for details and keys to all the hybrids.

G. endressii is told from *G. x oxonianum* by its shorter style (measured in fruit, from the base of the stigma to the tip of the column) which is 2.5-3mm (rather than 4-6mm).

G. versicolor is told from *G. x oxonianum* by its trumpet rather than funnel-shaped flowers (i.e. the petals are curved outwards rather than straight at their tips), and by the petal ground colour which is white rather than pink.

G. endressii is told from *G. versicolor* by the colour of the petal veins; they are darker than the ground colour in *G. versicolor* (the same colour or paler than ground colour in *G. endressii*).

Geranium endressii cultivars and hybrids *French Crane's-bill*

• hs 5

Older records for the aggregate are as follows, but most of these are probably **not** *G. endressii* s.s.:

NC40 NC71 ND01 NH68 NH69 NH78 NH88

Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Birichen	NH765923	roadside	09/07/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
High Street Lairg	NC584632	village	02/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
R Helmsdale in Helmsdale	ND026152	riverbank	07/07/2013

Recent records are generally to cultivar name, as follows:

Geranium endressii J. Gay s.s. *French Crane's-bill*

• hs 6

The veins and the background are the same deep rose pink at the tip of the petal, so there is virtually no contrast between them, but at the base of the petal the veins are colourless and translucent. The

leaves are wrinkled with pointed segments. Petals 3-4cm, notched. The style of the fruit is shorter (4-6mm not 2.5-3mm) than in *G. x oxonianum*.

High Street Lairg	NC584632	village	02/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Sutherland Street Helmsdale	ND027154	village	17/06/2015

Geranium endressii ‘Wargrave Pink’

• hs 5

Distinctly notched petals of light salmon pink, with darker veins towards the edge.

Clashmore	NH747895	village	10/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Embo	NH817928	village	23/06/2011
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Camore	NH775903	bungalows	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014

Geranium x oxonianum Yeo *Druce’s Crane’s-bill* = **G. endressii x G. versicolor** • hs 5

Probably the commonest of the garden escapes in this group, and certainly much more common than *Geranium endressii* which is often recorded in error. The petal veins are typically darker than the pink background of the petals, but they may be darker or lighter (colourless and translucent) than the background colour. The most commonly grown cultivars are ‘Claridge Druce’ with dark-veined rose-pink flowers, ‘A.T. Johnson’ with silvery pink flowers, and ‘Wargrave Pink’ with salmon pink flowers (see above). The flowers are funnel-shaped (not trumpet shaped; i.e. the petals are not strongly flared (bent backwards) at the mouth).

Clashmore	NH747895	village	10/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Camore	NH775903	bungalows	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
East Helmsdale	ND031155	walls	01/07/2013
Claonel	NC566453	hamlet	02/07/2013
High Street Lairg	NC584632	village	02/07/2013
Davochfin	NH778889	hamlet	04/07/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013

Hilton	NH804915	hamlet	04/07/2013
Duke Street Golspie	NC839245	suburbia	06/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Sleastary	NH643963	croft	09/07/2013
Achosnich	NH726939	croft	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
Dalchalm	NC911059	hamlet	19/06/2015
Culnara	NH625921	hamlet	08/05/2015
Clashban	NH643964	hamlet	12/05/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Embo	NH816928	village	08/05/2015
Lairg	NC579068	bungalows	10/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

Geranium x riversleaianum 'Russell Pritchard' = G. endressii x G. traversii ● hs 5

Flowers 30mm diameter of rich magenta, and sharply-toothed leaf segments.

Cavaig North Brora NC894041 hamlet 10/09/2012

Geranium himalayense 'Gravetye' ● hs 5

The classic blue-flowered Geranium for weed-suppressing ground cover.

Cavaig North Brora	NC894041	hamlet	10/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
High Street Lairg	NC584632	village	02/07/2013

Geranium 'Johnson's Blue' = G. himalayense x G. pratense ● hs 5

The pure blue flowers, 50mm in diameter, are held well above the leaves. The leaf segments are narrow.

Johnstone Crescent Brora	NC905363	council houses	01/07/2013
High Street Lairg	NC584632	village	02/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Geranium psilostemon Ledeb. *Armenian Crane's-bill*

• hs 5

A common garden plant (this and the hybrid 'Ann Folkard' are the tall "black-eyed" geraniums of herbaceous borders), rarely found on waste ground as an outcast.

Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Rogart Station	NC724019	railway	10/07/2011
Ord Place Lairg	NC579059	council houses	06/09/2012
High Street Lairg	NC584632	village	02/07/2013
Duke Street Golspie	NC839245	suburbia	06/07/2013
Rosehall	NC470222	village	09/07/2013
Sleastary	NH643963	croft	09/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Invercassley Stores Rosehall	NC470020	waste ground	28/06/2014
Loth Station Cottage	NC957100	hamlet	18/06/2015

Geranium 'Ann Folkard' = *G. procurrens* x *G. psilostemon*

• hs 5

This is told from *G. psilostemon* by the sterility of the hybrid, leaves with broader segments and bigger petals (to 22mm rather than 18mm).

Clashmore	NH747895	village	11/09/2012
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Geranium versicolor L. *Pencilled Crane's-bill*

• hs 5

Low growing perennial with blotched leaves that are shallowly cut and broadly lobed. The trumpet-shaped flowers have white petals, but they are so strongly veined with rose-red that they look pink from a distance.

Geranium ibericum Cav. *Caucasian Crane's-bill*

• hs 6

Possible error for *G. x magnificentum* (see below); needs confirmation.

NH79

Geranium x magnificentum Hyl. = *G. ibericum* x *G. platypetalum*

• hs 6

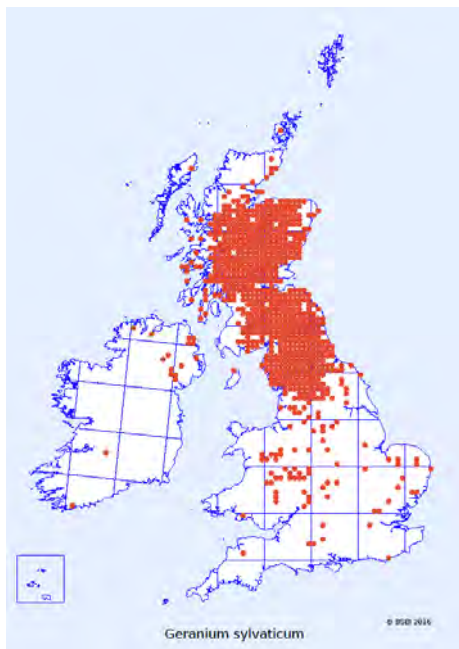
This is everyone's favourite big blue Geranium. The petals are slightly notched at the tip (in contrast to 'Johnson's Blue', where the petal tips are rounded and entire). The plant is typically seen in clumps about 50cm across.

Camore	NH775903	bungalows	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
East Helmsdale	ND031155	walls	01/07/2013
Claonel	NC566453	hamlet	02/07/2013
High Street Lairg	NC584632	village	02/07/2013
Davochfin	NH778889	hamlet	04/07/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Duke Street Golspie	NC839245	suburbia	06/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Sleastary	NH643963	croft	09/07/2013
Achosnich	NH726939	croft	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
West Helmsdale	ND020157	hamlet	27/06/2014
Spinningdale	NH677896	hamlet	24/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Pittentrail	NC726019	village	10/05/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Embo	NH816928	village	08/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

Geranium sylvaticum L. *Wood Crane's-bill*

hs 6

As a native plant, this species grows on rock ledges and heaths in the uplands and in woodland and hedgerows in the lowlands. It is at the extreme north-western edge of its British distribution in vc. 107 (see map below).



Told from *G. pratense* by petal colour (pinkish purple with a white base, not blue), short styles (less than 4mm), immature fruits pointing upwards (not sideways or downwards). Local and rare, and only as a garden escape for recent records.

NC70 ND01

Clashmore NH745895 hamlet 17/05/2015

Geranium pratense L. *Meadow Crane's-bill*

• hs 6

Local and uncommon in the lowlands on roadsides and rough grassland. Also found as a garden escape.

NC91 ND01 NH69 NH78

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
West of Embo	NH802929	roadside	11/07/2010
A9 verge Trentham Hotel	NH781927	roadside	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011

Astle	NH745919	hamlet	10/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Embo village dunes	NH817929	sand dunes	23/06/2011
Embo	NH817928	village	23/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Kilmaree	NH799982	hamlet	10/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
back of dunes Brora	NC909036	sand dunes	09/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
former caravan park Hilton	NH807915	grassland	04/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Hilton of Embo	NH807915	hamlet	29/06/2014

Geranium sanguineum L. *Bloody Crane's-bill*

• hp 7

A common rockery and edging plant, in a variety of flower colours: 'Album' is self explanatory, 'Glenluce' is exquisite wild rose pink, var. *striatum* is white with red veins, and there are all shades of red to deepest crimson. All of these may be seen occasionally in towns and villages on paving or waste ground near houses. Recorded only as a garden escape or outcast with us.

NH79

Clashmore	NH747895	village	10/07/2010
Embo	NH817928	waste ground	11/07/2010
Rosehall	NC470021	village	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011

Kilmaree	NH799982	hamlet	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
Golspie S	NC824997	village	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Rosehall	NC470021	village	10/05/2015
Lairg	NC579068	bungalows	10/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Harbour Road Helmsdale	ND026154	village	17/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Clashmore	NH745895	hamlet	17/05/2015

[Geranium columbinum L. Long-stalked Crane's-bill]

th 6

Fields, dry banks and stony places, hedge-banks; rather local and decreasing. Told from the other annual species by its long pedicels (more than 2.5cm) and glabrous or only sparsely hairy mericarps.

Recorded from Easternness and the Moray coast.

Geranium dissectum L. Cut-leaved Crane's-bill

o th 5

Waste ground, grassland, dry arable fields, cultivated ground, a weed of oilseed rape, set-aside, hedge-banks, etc.; common and widely distributed in many open habitats. Like *G. rotundifolium* it has dense glandular hairs on the flower stalks, but unlike that species it has lobed (not rounded, entire) petal tips. Occasional in the lowlands.

NC30 NC50 NC60 NC70 NC82 NC83 NC90 ND01 NH69 NH78 NH79 NH89

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Embo	NH817928	waste ground	11/07/2010
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Bonar Bridge	NH610914	village street	07/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Marian's Rock Strath Fleet	NC747012	quarry	12/07/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012

NVC: MG 1; OV 3,4,8,13,15,19,23-25; S 18

Geranium pyrenaicum Burm. f. *Hedgerow Crane's-bill*

• hs 6

Roadsides, railway banks, compacted waste ground, ditches. Very local and rare in vc. 107. Many of the locals grow this as a garden plant, passing on sections of root to neighbours.

The Crask Inn	NC523246	garden	10/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Well Street Dornoch	NH799893	cottages	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Also recorded from Easternness and the Moray coast.

White-flowered plants are uncommon:

Biblical Gardens Golspie	NC837154	garden	05/07/2013
Golspie High Street N end	NC837241	terrace	06/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Geranium pusillum L. *Small-flowered Crane's-bill*

th 6

Dry arable fields, cultivated land, waysides, waste ground; local and uncommon. Told from the much commoner *G. molle* by smooth, appressed-pubescent mericarps (not glabrous and ridged), smooth (not reticulated) seeds, pedicels with short hairs only (not mixed long and short), and outer 5 stamens lacking anthers.

Rogart 15/07/1957 M. McC. Webster

NC60 NC70 ND01 NH78 NH79

Dalchalm	NC909056	village	12/05/2011
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Geranium molle L. *Dove's-foot Crane's-bill*

th 4

Abundant in dry grassland, arable fields, fallow set-aside, waysides, heathy places, lawns, waste ground, etc. Told from *G. pusillum* by its hairless mericarps and from *G. rotundifolium* by smooth (not pitted) seeds (both species have abundant glandular hairs, so this character is no use in distinguishing them). Note that you need to remove the mericarp in order to see whether the seeds are smooth or pitted. The flowers vary in colour from white to light purple. With a lens, the hairs on the pedicel are clearly seen to be of two different lengths; long spreading wispy hairs, and dense, short, glandular hairs (the hairs are all the same length in *G. pusillum*). One of our commonest lowland wildflowers.

NC40 NC42 NC50 NC52 NC60 NC70 NC74 NC80 NC81 NC82 NC83 NC90 NC91 ND01 NH59
NH69 NH78 NH79 NH88 NH89

St Gilbert Street Dornoch	NH796897	suburbia	10/04/2010
The Meadows Dornoch	NH799893	suburbia	10/04/2010
River Street Dornoch	NH798895	suburbia	10/04/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Brora Harbour	NC909037	village	12/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
Littleferry	NH806956	hamlet	07/05/2013
Embo	NH817928	village	08/05/2013
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Clashmore	NH745895	hamlet	17/05/2015
Kinbrace Cemetery	NC859313	cemetery	16/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Little Ferry	NH805956	hamlet	14/05/2015

NVC: OV 9,19,21,25,39; U 1

Geranium macrorrhizum L. *Rock Crane's-bill*

● hs 5

A common groundcover plant in larger gardens, often thrown out and occasionally found on waste ground, ditches, hedgerows and woodland edges in and around villages and in towns. It has leaves that are fragrant when crushed. Also used in landscaping schemes, especially on roundabouts in towns and on new industrial estates.

Helmsdale Main Street	ND027153	street	06/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010

Golspie Biblical Garden	NC837001	park	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kildonan Church	NC910207	churchyard	11/05/2011
The Bridge Hotel Helmsdale	ND026154	street	08/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Embo	NH817928	village	23/06/2011
Rogart Station	NC724019	railway	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Briar Cottage Doll	NC883032	hamlet	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Railway Terrace Brora	NC905040	garden	10/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Camore	NH775903	bungalows	30/06/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Navidale Cemetery	ND042161	cemetery	07/07/2013
Rosehall	NC470222	village	09/07/2013
Sleastary	NH643963	croft	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
West Helmsdale	ND020157	hamlet	27/06/2014
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Pittentrail	NC726019	village	10/05/2015
Culnara	NH625921	hamlet	08/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015

Rosehall	NC470021	village	10/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Cuthill	NH750876	hamlet	17/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Kildonan Lodge	NC904222	parkland	17/06/2015

Geranium dalmaticum (Beck) Rechinger *Crane's-bill* ● hs 5

This is the neat rockery and wall plant with small glossy leaves and pink or white flowers reminiscent of *G. macrorrhizum*.

Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
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Geranium x cantabrigiense = *G. macrorrhizum* x *G. dalmaticum* *Crane's-bill* ● hs 5

Rosehall	NC470222	village	09/07/2013
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Geranium lucidum L. *Shining Crane's-bill* th 5

Shaded hedge-banks, old limestone walls, gravel soak-aways and damp brickwork in towns. Local and rather rare. This plant behaves much more like an alien than a native in Northern Scotland, and it is not recorded from any semi-natural habitats. It appears to be long-persistent, however, in some of its locations.

Clashmore	NH747895	village	10/07/2010
Astle	NH745919	hamlet	10/05/2011
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Geranium robertianum L. *Herb-Robert* h 5

Hedge bottoms, woodland, sea sides, dunes, wall-tops and shady waste ground; common and generally distributed in wild places and around houses.

NC30 NC31 NC32 NC33 NC40 NC43 NC50 NC51 NC52 NC60 NC63 NC70 NC71 NC74 NC80
NC81 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Dornoch River Street	NH798895	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Muie	NC669044	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
East Clyne	NC893062	stream	12/05/2011

Clynekirkton ruins	NC894060	churchyard	12/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
etc.			

NVC: M 28; OV 24; W 5,6,8,10,12,21,22,24,25

White-flowered individuals are uncommon in vc. 107:

R Evelix at Achosnich NH729935 wooded riverbank 09/07/2013

Geranium phaeum L. *Dusky Crane's-bill*

• hs 5

Hedges and rough grass near houses; an escape from cultivation, occasionally with white flowers (as at Skibo Castle, below).

Shinness Lodge	NC530150	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Skibo Castle	NH737891	waste ground	10/05/2011
Crackaig Farm	NC957107	farmstead	23/06/2011
Cavaig North Brora	NC894041	hamlet	10/09/2012
Ospisdale	NH712897	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014

River Street Dornoch	NH799893	bungalows	17/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

Also recorded from Easternness and the Moray coast.

Erodium cicutarium (L.) L'Hér. *Common Stork's-bill*

th 6

Geranium cicutarium L.

Erodium pimpinellifolium (Curtis ex With.) Sibth.

Sandy fields, dry arable land, dunes, disturbed ground and heaths, bare ground on waysides and wall-tops. Uncommon in the lowlands.

NC70 NC80 NC82 NC90 NC91 ND01 NH78 NH79 NH89

Golspie Sea Wall	NH827995	sea wall	11/07/2010
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golspie Links	NH822983	sand dunes	23/06/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Littleferry	NH806956	hamlet	07/05/2013
Eaglefield Road Dornoch	NH796895	terrace	05/07/2013
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Little Ferry	NH805956	hamlet	14/05/2015

NVC: OV 5, 10, 14, 20; U 1; SD 6-8, 11, 19; MC 5

[**Erodium cicutarium** var. **dunense** Andreas]

th 6

This is a dwarf coastal ecotype, sometimes wrongly determined as *E. lebelii* (below); not worthy of recognition due to the presence of frequent intermediates.

Erodium lebelii Jord. *Sticky Stork's-bill*

th 6 †

Bare places in fixed dunes. Very local and rare. No recent records.

Requires confirmation. Told from *E. cicutarium* var. *dunense* by flowers mostly less than 10mm across, the pedicels always with dense patent glandular hairs, and apical pits of the mericarp not delimited by a sharp ridge and groove.

NH79

Erodium x kolbianum 'Natasha'

• hs 5

Rare garden escape

NC40 ND01

Ballinreach NC932083 swamp 23/06/2011

Lythrum portula (L.) D.A. Webb *Water-purslane* th 6
 Peplis portula L.

Wet places and muddy pond margins on heathy ground. Local and uncommon in the lowlands. In similar habitats to the abundant alien *Epilobium brunnescens*.

Cuthill	NH748876	15/06/1960	John Anthony
Rogart		15/07/1961	M. McC. Webster
Loch Shin Dam	NC572000	18/07/1976	J.E. Kirby
Loch Airighe Bheg	NC702024	15/08/1976	M.J. Marshall

NC50 NC60 NC70 NC80 NC81 ND01 NH69 NH78 NH79 NH89

Bonar Bridge Golf Club car park	NH617916	waste ground	10/07/2010
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Mound Rock	NH770980	track	11/07/2011

NVC: OV 20,31,35

ONAGRACEAE

Epilobium L. *Willowherbs*

Willowherbs are notoriously difficult to identify correctly. The species with club-shaped stigmas are much more difficult than the species with their stigma-ends split into a cross. The trick is to leave them well alone until late summer when you can be sure of finding ripe fruits with mature seeds, and to be able to tell what sort of over-wintering rosettes the plant has formed at the base of the stem (sessile rosettes, or stolons, for example). But more than anything else, you need to pay close attention to the kind, size and orientation of the hairs on the fruits and upper stem. The difficulty is greatly increased by the fact that willowherbs are such promiscuous hybridisers. Many of the plants you find may not be attributable to any of the species, but will show intermediate phenotype in one or more of the key characters. The hybrids are often bigger plants with more branched stems, and dark petal tips. Many are infertile with aborted fruits, but some are fertile which complicates matters greatly.

- 1. Stigma entire and club-shaped2
- 1. Stigma 4 lobed6
- 2. Stem hairs all appressed.....3
- 2. At least some stem hairs spreading4
- 3. Glandular hairs present on hypanthium **E. obscurum**
- 3. No glandular hairs on hypanthium[**E. tetragonum**]

4. Seeds with a terminal appendage5
 4. Seeds without terminal appendage **E. roseum**
5. Surface of seed with longitudinal papillose ridges ... **E. ciliatum**
 5. Surface of seed uniformly papillose **E. palustre**
6. At least some spreading hairs non-glandular7
 6. Spreading hairs all glandular8
7. Petals large (>9mm) **E. hirsutum**
 7. Petals small (<10mm)..... **E. parviflorum**
8. Leaf base cuneate [**E. lanceolatum**]
 8. Leaf base rounded..... **E. montanum**

Epilobium hirsutum L. *Great Willowherb*

h 7

River-, brook-, stream- and pond-sides, damp woods and moist waste ground. Very local and uncommon in the lowlands.

NC50 NH89

Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Lairg Dam Lochside	NC578069	hamlet	13/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Skibo Golf Sheds	NH732872	waste ground	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Loch Front Lairg	NC581623	loch shore	02/07/2013
Strath Oykel	NH496999	riverbank	12/05/2015
Campbell Street Dornoch	NH791895	new housing	11/06/2015

Epilobium parviflorum Schreb. *Hoary Willowherb*

h 7

Damp waste ground, paths, forest rides, ditches, meadows, brook-sides, boggy and wet places, and much less dependent on water as *E. hirsutum*. A plant that is instantly identifiable by its jizz when still a youngster: the dark purple stem, partially visible through the dense clothing of white hairs, gives the whole plant a distinctive dull, matt-grey appearance. Very local and rare in vc. 107.

NC60 NC92 ND01 NH59 NH78 NH79

Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
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Deans Park Dornoch NH791896 new housing 18/06/2011

NVC: M 22; OV 26; W 5

[*Epilobium parviflorum* x *ciliatum*]

Epilobium montanum L. *Broad-leaved Willowherb*

h 6

Damp shady places like waste ground in towns, woods, hedges, thickets, ditches and as a garden weed. After *E. ciliatum*, the commonest species of *Epilobium*. Known at once by its cross-shaped, 4-lobed stigma.

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC60 NC62 NC63 NC70 NC71 NC73 NC74
NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
North Lodge Rosehall	NC479018	ruined walls	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Leathad nan Toll Beinnl	NH696959	forest road	13/07/2010
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Astle	NH745919	hamlet	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Helmsdale Harour	ND029151	terrace	19/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011

North Street Dornoch	NH797897	terrace	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Rogart Station	NC724019	railway	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Railway Terrace Brora	NC905040	garden	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Stafford Street Helmsdale	ND029154	waste ground	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Brora Catholic Church	NC906037	bungalows	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Stafford Terrace Brora	NC904042	waste ground	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012

Golspie Burn	NC831016	pine plantation	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Uppat Place Brora	NC903034	council houses	17/05/2012
etc.			

NVC: OV 9,27,42; W 6,8,12,24

[**Epilobium x aggregatum** Celak. = **E. montanum x E. obscurum**]

[**Epilobium montanum x ciliatum**]

Epilobium adenocaulon x montanum

Probably the commonest of all the hybrids.

[**Epilobium tetragonum** L. *Square-stalked Willowherb*]

h 7

Epilobium lamyi F. Schultz

Epilobium adnatum Griseb.

Epilobium tetragonum L. subsp. *lamyi* (F. Schultz) Nyman

Waste ground, pavements, gardens, ditches, stream-sides etc. Relatively easy to tell from *E. ciliatum* and *E. obscurum* by the complete lack of any spreading glandular hairs on the fruits or upper stem. These parts are uniformly clothed by very distinctive appressed, forward-pointing hairs. The plant has large fruits (6.5-10cm long) and perennates by sessile leafy rosettes. The seeds lack the terminal appendage of *E. ciliatum*. From a distance, the plant is known by its narrow leaves that are often held almost vertically, parallel with the axis of the stem.

Recorded from the Moray coast.

[**Epilobium obscurum** Schreb. *Short-fruited Willowherb*

h 7

Ditches, woodland rides, and damp waste ground. Occasional. Hard to tell from *E. ciliatum* but easier to distinguish from *E. tetragonum*. From *E. tetragonum* it is told by the presence of at least a few spreading glandular hairs at the base of the sepals and on the upper stem and base of the fruit, and by its much shorter (more dumpy) fruits which are 4-6cm long (rather than 6.5-8cm). *E. obscurum* perennates by elongated stolons which distinguish it from both *E. ciliatum* and *E. tetragonum*. Its seeds lack the distinct terminal appendage shown by *E. ciliatum*.

NC40 NC50 NC51 NC52 NC60 NC63 NC70 NC73 NC80 NC81 NC82 NC83 NC84 NC90 NC91
NC92 NC93 ND01 NH69 NH78 NH79 NH89

Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
North Lodge Rosehall	NC479018	ruined walls	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Camore	NH778903	council houses	12/07/2010
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011

Loch Airighe Mhor	NC690020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Sallachy Memorial Cairn	NC547904	park	02/07/2013
Dornoch Lochans Davochfin	NH777889	lochans	04/07/2013
Dunrobin Castle stone walls	NC850789	stonework	06/07/2013
Helmsdale	ND027153	terrace	07/07/2013
A9 verge at Underpass	ND048173	roadside	07/07/2013
Brora Industrial Estate	NC905418	waste ground	07/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

NVC: M 23,27; OV 31

[**Epilobium x schmidtianum** Rostk. = **E. obscurum x E. palustre**]

Epilobium roseum Schreb. *Pale Willowherb*

h 7

This is a very rare willowherb and may include the earliest records of *E. ciliatum* (see below). They are separated critically on their seeds (truncate and minutely papillose in *E. roseum*; appendaged and with longitudinal papillose ridges in *E. ciliatum*). By their jizz, *E. roseum* has petiolate (not sessile) leaves and distinctly pale-pinkish (not reddish) flowers and fruits.

Brora 15/07/1958 M. McC. Webster

NC81 NC90

Epilobium ciliatum Raf. *American Willowherb*

• h 6

Epilobium adenocaulon Hausskn.

This is our commonest willowherb, and one of the great alien plant success stories. It was first recorded in 1891. Now it is the commonest willowherb of disturbed waste ground, gardens, roadsides, wood margins, ditches and streams. The key identification features are the appendaged seeds, and the abundance of spreading glandular hairs amongst the appressed, upward pointing non-glandular hairs that clothe the fruits and upper stem (these distinguish it from *E. tetragonum* which has no glandular hairs at all). It is separated from *E. obscurum* by its seeds which have a distinct appendage between the pappus and the top of the seed (see Fig. 358 in Stace, 2010), from *E. roseum* by the absence of distinct petioles, and from *E. palustre* by its sessile leafy rosettes.

Ben Bhraggie 10/07/1979 M.J. Marshall
 Bonar Bridge 15/07/1979 M. McC. Webster
 Shin Falls car park 11/07/1984 John Killick

NC50 NC70 NC80 NC83 NC90 ND01 NH59 NH69

Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011

Clynelish Distillery Brora	NC896054	waste ground	08/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Kintradwell	NC922074	railway	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Golf Course Golspie	NH826995	bungalows	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Embo	NH817928	village	23/06/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Marian's Rock Strath Fleet	NC747012	craggs	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Cavaig North Brora	NC894041	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Stafford Street Helmsdale	ND029154	waste ground	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Stafford Terrace Brora	NC904042	waste ground	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Brora Bridge	NC905039	stonework	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Lairg Road Bonar	NH609917	riverbank	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Strath Helmsdale	ND022171	birch wood	05/05/2013
Helmsdale	ND034152	seaside grass	05/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Brora Industrial Estate	NC905412	waste ground	07/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013

Ross Terrace Brora	NC905387	railway	01/07/2013
Dornoch Lochans Davochfin	NH777889	lochans	04/07/2013
Davochfin	NH778889	hamlet	04/07/2013
R Helmsdale in Helmsdale	ND026152	riverbank	07/07/2013
A9 underpass at Ord	ND048173	roadside	07/07/2013
Rosehall	NC470222	village	09/07/2013
Sciberscross Lodge	NC775100	parkland	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

etc.

NVC: OV 19,22,32; S 15

Epilobium palustre L. *Marsh Willowherb*

h 7

Ditches, marshes, margins of ponds, boggy ground and a wide variety of wet places, as among *Phragmites*. It has longer petioles than most of the other species. Told from *E. ciliatum* with confidence by its long slender stolons which end in a tight bud (*E. ciliatum* perennates by sessile leafy rosettes) and by the uniformly papillose (not papillose-ridged) seeds. Widespread and common.

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71
NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH69 NH78
NH79 NH89

Loch Migdale N shore	NH632916	loch side	10/07/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Lothmore gravel pit	NC970106	pond	12/05/2011
Overskibo Curling Pond	NH727902	pond	14/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Halmadarie Burn	NC696320	molinia bog	20/06/2011
Cnoc a Chrom-uilt	NC725312	wet heath	20/06/2011
Gernsary croft	NC730323	dry stone wall	20/06/2011
Rubha Geal	NC743335	wet heath	20/06/2011
Preas nan Sgiathanach	NC684097	wet heath	22/06/2011
Achnahuie	NC709080	wet heath	22/06/2011
Kilbraur Wind Farm	NC779070	wet heath	22/06/2011

Dunrobin Glen watershed	NC780048	wet heath	22/06/2011
Coul Links	NH807951	dune slacks	23/06/2011
Craggie road junction	NC744075	roadside	10/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Carn Garbh Glen Sletdale	NC908136	dry heath	01/07/2013
Glen Sletdale	NC919124	stream bank	01/07/2013
Glen Sletdale	NC927125	bracken	01/07/2013
Coul Links	NH804948	dune slacks	04/07/2013
Upper Suisgill Kildonan	NC897250	streamside	05/07/2013
Allt Horn Dunrobin Glen	NC801491	conifer plantation	06/07/2013
Loch Buidhe	NH657982	stony shore	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
etc.			

NVC: M 13,22,27; OV 32; S 1,3,6,8,10,12; W 1,4,6

Epilobium anagallidifolium Lam. *Alpine Willowherb*

h 7



Epilobium anagallidifolium Flora Iberica

Wet places in the mountains. Local in the west.

Knockfin	15/07/1962	M. McC. Webster
Ben Hee	15/07/1973	A.G. Kenneth
Carn Dearg	15/07/1973	A.G. Kenneth
Meallan a Chuail	15/07/1973	A.G. Kenneth

W slope of Ben Griam Mor NC795398 01/07/1998 Gordon Rothero

NC31 NC32 NC33 NC42 NC43 NC52 NC62 NC72 NC73 NC83 NC90 NC91 NC93

Coire nam Mang	NC410320	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Coire Mhadaidh Conival	NC307203	wet rocks	10/08/2012 Gordon Rothero
Ben Uarie mid slope	NC929160	heather	09/09/2012
Doire Dubh	NC365327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Coire na Saidhe Duibhe	NC689285	crag	12/07/2013
Coire na Saidhe Duibhe	NC695282	crag	12/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013
Craggan Burn	NC912178	stream	20/06/2015

Epilobium alsinifolium Vill. *Chickweed Willowherb*

h 7



Epilobium alsinifolium Carl Farmer

Wet flushes and stream sides in the mountains. Uncommon in the west.

NC31 NC32 NC42 NC43 NC52 NC72 NC83

Ben Griam Beg E side NC846408 flush 15/07/2011

Epilobium brunnescens (Cockayne) P.H. Raven and Engelhorn *New Zealand Willowherb* • h 6
Epilobium pedunculare Cunn. var. *brunnescens* Cockayne
Epilobium nerteroides auct., non Cunn.

Damp bare ground, especially on forest tracks. Waste ground in towns and by railways. Widespread and common. First collected in 1908 and still increasing in abundance.

Glen Loth		15/07/1973	A.J. Suter
Suisgill Burn		15/07/1973	A.J. Suter
Loch Shin Dam	NC582063		J.E. Kirby
Overscaig Hotel Quarry			J.E. Kirby
Loch Horn			M.J. Marshall

NC30 NC31 NC32 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC70 NC71 NC74 NC80
 NC81 NC82 NC83 NC90 NC91 NC92 ND01 NH49 NH69 NH79

Lairg Loch Side	NC580069	suburbia	10/04/2010
Clashmore	NH747895	village	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Telecoms Mast The Crask	NC522259	waste ground	11/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Loch an Ruathair	NC871357	loch side	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Rhinamain	NH610938	hamlet	18/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Achentoul Forest	NC881384	railway	19/06/2011
Achentoul Burn	NC897326	waterfall	19/06/2011
Rimsdale Forest	NC748390	roadside	20/06/2011
An Chrom-allt	NC718310	roadstone quarry	20/06/2011
Garbh-allt	NC784403	stream	21/06/2011
Balvraid Wood	NH775940	plantation	09/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Boundary Track	NC885402	forest road	15/07/2011

Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Allt a'Choire Mhoir	NC915180	streamside	17/05/2012
Glen Sletdale	NC902157	stream bank	01/07/2013
Glen Sletdale	NC908147	stream bank	01/07/2013
Allt a'Choire Riabhaich	NC909129	wooded stream	01/07/2013
Creag a'Bhodaich Sletdale	NC911149	stream bank	01/07/2013
Glen Sletdale	NC917126	stream bank	01/07/2013
Creag a'Chrionaich	NC924115	dry heath	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Glen Cassley Hydro	NC369201	dry heath	03/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Torrish Burn Kildonan	NC969187	ravine birch wood	05/07/2013
Allt Horn Dunrobin Glen	NC801491	conifer plantation	06/07/2013
Ord of Caithness	ND056173	stream	07/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
etc.			

Chamerion angustifolium (L.) Holub *Rosebay Willowherb*

h 7

Epilobium angustifolium L.

Chamaenerion angustifolium (L.) Scop., nom. illegit.

Cleared woodland and waste ground, motorway verges, woods, swamps, bushy commons, burnt heaths, and railway embankments, from a wide range of open and woodland habitats. It remains to be determined (e.g. by molecular genetic tests) whether the aggressive lowland plants that behave as if they were invasive aliens are, in fact, one or more alien genotypes, introduced from North America in the early years of this century and/or during the Second World War. In Victorian times, rosebay willowherb was such a spectacular rarity, that special trips were arranged to see it growing in its natural habitats (e.g. on the cliffs of the whin sill below the Roman Wall in Northumberland). Widespread and locally abundant in vc. 107.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC70 NC71
NC72 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69
NH78 NH79 NH88 NH89

NVC: MG 1; OV 9,10,19,21-23,27,32; S 12,15,18; U 1,2; W 4,6,8,10,12,15,16,24,25

Oenothera *Evening-primroses*

• hs 7

A fascinating and excruciatingly complicated genus of alien monocarpic plants from North America. What makes them so special is their chromosomes. They have an anomalous genetic system called *permanent translocation heterozygosity* (PTH) that is known from some other Onagraceae (49 spp.), and a handful of species from other families like Campanulaceae (2 spp.), Commelinaceae (2 spp.), Clusiaceae (2 spp.), Iridaceae (3 spp.), Paeoniaceae (2 spp.), and Papaveraceae (1 sp.). They have rings of chromosomes resulting from reciprocal translocations, and these form linkage groups involving more than one bivalent. This system represents the ultimate in linkage disequilibrium: each of the 7 haploid chromosome complements is connected through reciprocal translocations, making the entire genome behave as a single linkage group. The system allows one or two basic genotypes to be reproduced virtually unchanged in each generation, allowing well adapted genotypes to increase very rapidly in the open, disturbed environments that they typically inhabit. The reproductive system is a bit like apomixis, but without the asexuality; reproduction in *Oenothera* is exclusively sexual, but self pollination is very common. When new varieties arise by rare mutations or recombinations, or more frequently by hybridisation, these immediately form true-breeding lines, and these genotypes may become very abundant if local conditions are favourable. Heterozygosity is maintained through the prevention of homozygous combinations through a system of *balanced lethals*: homozygosity of nonallelic recessive lethal genes results in mortality (either sporophytic or gametophytic) when the parent plant is autogamous.

One of the things that makes the taxonomy of these plants so challenging is that many of the taxa first came into contact with one another as aliens in Europe (they were geographically isolated from one another in their native North American communities). The resulting hybrids (neonatives) were able to breed true, but often intercrossed with other new taxa, or back-crossed with their parental types.

Genome and plastome composition is the key to understanding their relationships. There are 3 major differentiated genomes in the native range, designated A, B and C. The genome groups are associated with the morphological features that we use in identification keys, like stem pubescence, leaf colour, leaf shape, and so on. Likewise, there are 5 basic plastid genomes designated as plastomes I-V. These can combine in various ways: diploid individuals, for example, could have both genomes of the same type (e.g. AA) or of different types (e.g. AB, AC or BC), and each of these could be associated with one of the plastomes. The essentially clonal PTH populations are delimited according to their genomes and plastome types, but only certain combinations of genome and plastome types are viable. For instance, genome BC is only viable when it occurs with plastome IV (as represented by *O. parviflora*). The most complicated combinations involve *O. biennis* (e.g. genome AB with plastome II is Biennis group II, while genome AB with plastome III is Biennis group I, containing our common *O. glazioviana*).

O. glazioviana is especially interesting. It is a species of hybrid origin, probably formed in Britain in the late eighteenth century, as the result of a cross between alien parent taxa that were growing as garden outcasts on open waste ground. It was introduced into horticulture by Carter and Co. in 1860, but it was not described as new to science until it was collected from a potato field in Holland by Hugo de Vries in 1886. He went on to make the study of *O. glazioviana* his life's work. The type specimen comes from plants cultivated in Rio de Janeiro in 1868, which demonstrates how rapidly and how widely the plant had been distributed by the horticultural trade since 1860. It now has an almost worldwide distribution as a secondary alien spread from Britain for horticulture and as an unintentional seed contaminant. At present, it is not possible to distinguish between 3 competing hypotheses for its hybrid origin:

- *O. elata* subsp. *hookeri* (AA-I) x *O. biennis* (BA-III)
- *O. elata* subsp. *hookeri* (AA-I) x *O. grandiflora* (BB-III)

- *O. biennis* (AB-II or BA-III) x *O. grandiflora* (BB-III)

The first cross gives the correct genomic combination and plastome if the *O. biennis* parent was Biennis-I. The second is unlikely because the only known end arrangements of the chromosomes of *O. grandiflora* differ from the B genome of *O. glazioviana*. The third has the A genome from *O. biennis* and the B genome from *O. grandiflora* but again, the proper chromosome end arrangements are not known. Hypothesis 1 is therefore the most plausible on current evidence. It is the only regularly outcrossing PTH species in the family Onagraceae. In addition to the ring chromosome, it has a single bivalent chromosome in meiotic metaphase I.

The 562 published names of *Oenothera* were ruthlessly lumped into 13 species by Dietrich, Wagner and Raven (1997).

Literature:

Cleland, R.E. (1972) *Oenothera Cytogenetics and Evolution*. Academic Press, London
 Dietrich, Wagner and Raven (1997) Systematics of *Oenothera* Section *Oenothera* Subsection *Oenothera* (Onagraceae). *Systematic Botany Monographs* 50: 1-234
 Munz, P.A. (1965) Onagraceae. *North American Flora*, ser. 2, 5:1-278

Oenothera stricta Ledeb. Ex Link *Fragrant Evening-primrose* • hs 6

A rare garden escape in vc. 107 with its capsule widest near the apex and petals fading to red.

Invercassley Stores Rosehall NC470020 waste ground 28/06/2014

Oenothera glazioviana P. Micheli *Large-flowered Evening-primrose* • hs 6

Oenothera erythrosepala Borbas

Oenothera grandiflora L'Hér. subsp. *erythrosepala* (Borbas) Á. Löve and D. Löve

This is much the commonest of our big yellow-flowered Evening Primroses, frequently seen on roadsides and in villages as a garden escape. Railway tracks, waste places and tips; local but increasing. The petals are very large (50mm long and 55mm wide), and the stigma is elevated above the anthers at anthesis; in all the other taxa in vc. 107, the stigmas are interspersed with the anthers and hence self-pollinated.

Golspie Biblical Garden	NC837001	botanical garden	11/04/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Doll	NC876034	hamlet	10/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	botanical garden	07/09/2012
Biblical Gardens Golspie	NC837001	botanical garden	05/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

[Oenothera x fallax Renner *Intermediate Evening-primrose*] • hs 6

This is like *O. cambrica* in that the fruits have red-based bulbous hairs, but the fruits are small (20-30mm) and all of them are covered with glandular hairs, the top of the rachis is red (to reddish), and the sepals are red-striped. The small petals are slightly wider than long (28 x 32mm). The whole of the stem is dark red and very bristly.

Recorded from Easter Ross.

Oenothera biennis L. *Common Evening-primrose*
Oenothera novae-scotiae Gates

• hs 7

Railway banks and waste places. *O. glazioviana* is truly the “Common” evening primrose in vc. 107 nowadays.

As now revised, *O. biennis* embraces two types: to the geneticists (Cleland, 1972) they are Biennis-I and Biennis-II, while to the taxonomists (Munz, 1965) they are subspecies, *O. biennis* subsp. *centralis* and *O. biennis* subsp. *caeciarum*. The main difference between the two relates to a reversal of maternal and paternal transmission of the complexes. “In Biennis-I, which has a BA genomic combination, the B genome is transmitted through the egg, whereas in the other race, Biennis-II, which has an AB genomic constitution, the B genome is transmitted through the pollen” (Dietrich, Wagner and Raven, 1997). They are distinguished as follows:

1. Inflorescence lacking glandular hairs, but with dense, appressed, upward-pointing hairs, lower leaves lobed towards the base, stems typically green Biennis-I (*centralis*)
1. Inflorescence glandular pubescent, lower leaves merely dentate, stems often flushed with red Biennis-II (*caeciarum*)

Biennis-II (*caeciarum*) is the most commonly naturalized in Europe. The new *O. biennis* “consists of literally hundreds of minutely differing phenotypic races that are true-breeding, and recognizing any of them in the taxonomic system would lead to a never-ending description of them” (Dietrich, Wagner and Raven, 1997). The traditional British interpretation followed here has small flowers (petals 1.5-3cm long) and lacks red bulbous-based hairs on the green parts of the stem. Otherwise similar plants with red bulbous-based hairs on the stems and fruits are assigned to *O. cambrica* or their hybrids.

Briar Cottage Doll

NC883032

hamlet

10/09/2012

[**Oenothera biennis** x **Oenothera cambrica** *Small-flowered Evening-primrose*]

• hs 7

Under the British treatment, plants have been allocated to *O. biennis* x *O. cambrica* because of the combination of very small flowers, red bulbous bases to the stem hairs, etc. (the petals are only 13mm long, which is a *O. biennis* character) and the plants are very tall (to 1.8m, again a trait of *O. biennis*). However, half of the bulbous hairs on the stem are red-based, not clear, and the petals are as long as wide (features of *O. cambrica*). There are no glandular hairs on the fruits but there is a mixture of forward-pointing, long, clear-based hairs and denser, short hairs. The upper parts of the plant are predominantly green with a scattering of pink, bulbous-based hairs and clear bulbous-based hairs, but no glandular hairs. The leaves are short-hairy above (but densely appressed hairy on the upper midrib) and longer-hairy beneath. It begins to flower a good 14 days later than *O. biennis* and *O. cambrica* in Silwood (in mid-July most years). The anthers shed their abundant pollen directly on to the unfolded stigma lobes. Under the modern US treatment, *O. cambrica* and all its hybrids are sunk within *O. biennis* (see above).

[*Oenothera cambrica* Rostanski *Small-flowered Evening-primrose*]

• hs 7

Oenothera parviflora auct., non L.*Oenothera ammophila* auct., non Focke*Oenothera novae-scotiae* auct., non Gates

Railway tracks and waste places on disturbed soil. This is included within *O. biennis* by Dietrich, Wagner and Raven (1997). The British treatment is that *O. cambrica* has capsules 3-4cm (not 2-3cm to distinguish it from *O. x fallax*) and small flowers (petals 1-3cm, rather than 3-5cm in *O. glazioviana*), that are as wide as long (not wider than long as in *O. biennis*). It is also told from *O. biennis* by the possession of red (not clear-coloured) bulbous-based hairs on the upper stem.

Clarkia amoena* (Lehm.) A. Nelson & J.F. Macbr. *Godetia

• th 7

Garden outcast; local and rare. No recent records.

Golspie Beach NH800900 beach 1909 G.C. Druce

NH89

Fuchsia* cultivars *Fuchsia

• m 6

Not naturalised in vc. 107 in the way that they are in western Britain, and our few records are clearly garden relics or outcasts. The plants are often cut down to ground level by frosts, but usually regrow vigorously the following year. Fuchsias are often recorded uncritically as *F. magellanica*, which has slender, downward pointing sepals, but several cultivars occur outside gardens. Our most frequent hardy cultivars are 'Riccartonii' which has fatter buds and wider, more spreading sepals than the species, and 'Mrs. Popple' which has cerise-centred, purple-violet corollas. Here is what W.J. Hooker said about trying to give names to Fuchsias: "the difficulty of discriminating those different kinds of *Fuchsia*, now so common in our gardens has been felt by everyone who has turned his attention to the subject; and this difficulty has been increased by cultivation and the skill of the horticulturist in fertilizing one kind with the farina of another; so that what few characters were supposed to exist to enable them to rank as species, are, of necessity, obliterated". Very local and rare in the lowlands. We don't have the *Fuchsia* hedges that one finds in the west.

NC91

A9 verge Westgarty Lodge	NC990123	roadside	11/07/2010
Lothmore Church	NC971113	churchyard	11/07/2010
Embo	NH815928	village	11/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Front Street Embo	NH817927	village	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012

Dunrobin Castle	NC851008	parkland	17/05/2012
Navidale Cemetery	ND042161	cemetery	07/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Dalchalm	NC911059	hamlet	19/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Doll	NC878033	hamlet	11/05/2015
Fanich	NC879037	hamlet	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Navidale	ND037161	hamlet	14/06/2015
Balblair	NH799973	hamlet	12/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Fuchsia 'Riccantonii'

Camore Gardens Camore	NH777903	council houses	30/06/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014

Circaea lutetiana L. *Enchanter's-nightshade*

h 5

Moist shady woods, plantations, shady gardens and waste ground on nutrient-rich soils. Local and rare in the lowlands. The plant has no stolons and the petioles are hairy on all sides. This old record requires confirmation.

NH79

Circaea x intermedia Ehrh. = **C. lutetiana x C. alpina** *Upland Enchanter's-nightshade* h 5

Shady places amongst rocks and in woods. Much more frequent than the latter, and on higher ground. The plant has stolons and the petioles are more or less hairless on the undersides.

NC33 NC40 NC80 NC81 NH59 NH79

Ben More Assynt	NC32	07/07/1932	Graham, E.; Vachell, E.	NMW
Cambusmore	NH762982		woodland	23/07/2010 Mark Jannink
The Alders The Mound	NH771987		alder carr	11/07/2011
Torboll Farm S	NH750980		composite	11/07/2011
Auchintoul	NH518992		riverbank	12/07/2011
Linsidmore Wood	NH498998		riverbank	12/07/2010
Ledmore Wood	NH664893		ancient woodland	12/07/2010
W of Mound Rock	NH765994		wooded stream	10/07/2011

NVC: W 9, 14

ANACARDIACEAE

Cotinus coggygria Scop. *Smoke-tree*
Rhus cotinus L.

● mm 4

A common garden shrub, especially in its purple-leaved forms, producing seedlings in occasional years.

Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Park Terrace Brora	NC905040	village	13/06/2015

Rhus typhina L. *Stag's-horn Sumach*
Datisca hirta L.
Rhus hirta (L.) Sudw.

● mm 6

A popular tree for small gardens. Occasionally established in waste ground and on roadsides well away from houses, but more usually found as a suckering garden escape (e.g. forcing its way under boundary fences). Conspicuous in autumn when the foliage turns flame red.

Rogart Station	NC724019	railway	10/07/2011
Ospisdale House	NH713897	parkland	11/07/2013

SAPINDACEAE

Aesculus hippocastanum L. *Horse-chestnut*

● mm 5

Plantations, parks and hedges. Seldom self-seeding in vc. 107. Occasional in the lowlands.

NC30 NC40 NC50 NC51 NC70 NC80 NC90 NC91 NH59 NH68 NH69 NH78 NH89

Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Helmsdale Station	ND020155	railway	06/04/2010
Invershin Station	NH580953	railway	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Astle	NH745919	hamlet	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Kirkton	NH799986	farmstead	10/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
West Shinness Lodge	NC530151	hamlet	08/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012

Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Gruids	NC566039	hamlet	16/05/2012
Big Burn Golspie E of railway	NC840007	woodland	05/05/2013
Gruids	NC570035	hamlet	06/05/2013
Main Street Brora	NC903039	street	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
North Street Dornoch	NH797897	roof gutters	05/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Road bridge Golspie Big Burn	NC840005	woodland	10/05/2015
Invershin Station Strath Oykel	NH579953	hamlet	12/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Achinduich	NC580000	hamlet	12/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Aesculus x carnea J. Zeyh. = **A. hippocastanum** x **A. pavia** *Red Horse-chestnut* ● mm 5

Plantations, parks and shelter-belts, in small quantity. Occasionally producing seedlings but most are planted, typically grafted onto rootstocks of *A. hippocastanum*.

Ospisdale House	NH713897	parkland	11/07/2013
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Acer negundo L. *Box Elder* ● mm 4

A rare garden plant with us. Seedlings recorded.

Cromartie Road Dornoch	NH793896	town houses	18/06/2011
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Acer palmatum L. *Japanese Maple* ● mm 4

A garden plant, occasionally self seeding. Always close to houses with us.

Skibo Castle walled garden	NH737891	self-sown by wall	10/05/2011
Ospisdale House	NH713897	parkland	11/07/2013
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

Acer platanoides L. *Norway Maple* ● mm 4

Plantations, gardens and hedgerows, often reproducing by seed and, in many places, the most numerous alien tree seedling. The variegated cultivar 'Drummondii' is much planted and frequently back-mutates to the all-green leaf type.

NC50 NC71 NH78

Murray Road Dornoch	NH801898	council houses	17/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Invershin Station	NH580953	railway	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Lairg Dam Cottage	NC578069	hamle	13/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011
Loth Station Cottage	NC959100	railway	23/06/2011
Deans Park Dornoch	NH791896	new housing	18/06/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Camore	NH775903	bungalows	30/06/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Achinduich	NC580000	hamlet	12/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015

Acer platanoides ‘Drummondii’

● mm 4

The variegated cultivar is uncommon in non-garden locations:

Kildonan Lodge	NC904222	parkland	01/07/2013
Kildonan Lodge	NC904222	parkland	17/06/2015

Acer platanoides ‘Crimson King’

● mm 4

A catch-all name for several similar cultivars with dark red leaves

Hilton of Embo W	NH796913	hamlet	21/06/2015
North Brora	NC909044	bungalows	19/06/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Lairg	NC581068	council houses	10/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Kildonan Lodge	NC904222	parkland	17/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

Acer campestre L. *Field Maple*

● mm 4

A rare garden plant with us. Seldom planted and rarely self sown.

Ord Place Lairg	NC579059	council houses	06/09/2012
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Clash Breac Lairg	NC588063	new housing	12/06/2015

Acer pseudoplatanus L. *Sycamore* ● mm 4

Woods, hedges, railway embankments and waste ground common. Introduced in the fifteenth century and first recorded from the wild in 1632.

The most ecologically influential of the naturalised alien trees, capable of forming virtual monocultures and excluding native vegetation (see also *Castanea sativa* and *Quercus cerris*). The leaves are often blotched with big black spots of the Tar Spot fungus *Rhytisma acerinum*, which is said to be an indicator of relatively clean air (it is less common in polluted areas). In addition to the red pin galls of the mite *Eriophyes macrorhynchus* the leaves often feature the pale coloured pouch galls of another mite *E. megalonyx*. Aphids *Drepanosiphum platanoides* are abundant on the undersides of the leaves in early and late summer, and their feeding has a significant negative effect on wood increment; the insects space themselves out on the underleaf by constantly kicking out at one another. Leaf mines are conspicuous by their absence from sycamore. Seedlings of sycamore are unpalatable and hence avoided by rabbits; in certain years the seedlings can form solid carpets on the woodland floor, with thousands of plants per square metre. Widespread and abundant.

NC30 NC31 NC40 NC42 NC50 NC51 NC60 NC61 NC70 NC71 NC73 NC80 NC81 NC83 NC90
NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

NVC: OV 27,42; W 6,8,10,12-16

RUTACEAE

An important family of plants that has no native British representatives. Several genera are important garden plants, however, including trees like *Phellodendron*, shrubs like *Choisya* and *Skimmia*, and herbs like *Ruta*. The genus *Citrus* is perhaps the most important member of the family in our daily lives, and outcast pips of orange, lemon and lime are often found on compost heaps and rubbish dumps. They are impossible to identify to species at this age, and are inevitably killed by frost. They are excluded from this account.

Ruta graveolens *Rue* ● n 5

Common in herb gardens and on rockeries, and occasionally found in pavement cracks and on waste ground as a garden outcast.

Biblical Gardens Golspie	NC837001	botanical garden	07/09/2012
Biblical Gardens Golspie	NC837001	botanical garden	05/07/2013
Biblical Gardens Golspie	NC837001	botanical garden	14/07/2015

MALVACEAE

Malva moschata L. *Musk-mallow* h 7

Field borders, waysides, dry or sandy pastures, woodland rides, old grassland, roadsides, motorway verges and waste places in small quantity, but locally frequent. Long-lived and persistent at its sites. Absent from the northern clays and from very acid soils. A great adornment to summer, and one of our most attractive native wildflowers. Local in the lowlands.

NC50 NC70 NC83 ND01 NH69 NH79

Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Longuish Road Junction	NH644919	waste ground	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
East Helmsdale	ND031155	suburbia	11/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Rosehall	NC470021	village	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
Wester Drumlich	NH607934	hamlet	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Hilton	NH804915	hamlet	04/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Rosehall	NC470022	village	09/07/2013
Clynelish Brora	NC902053	hamlet	10/07/2013

NVC: MG 1

White flowered plants recorded at:

Briar Cottage Doll	NC883032	hamlet	10/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Brora Bridge	NC905039	village	07/09/2012

Malva sylvestris L. *Common Mallow*

o h 6

Waysides and open waste ground. Most frequently near villages and particularly fond of growing at the base of a sunny wall. Local and uncommon in the lowlands

Dornoch	John Anthony
Embo	John Anthony
Golspie	John Anthony
Helmsdale	John Anthony

NC60 NC91

Helmsdale Church	ND026155	churchyard	08/05/2011
Golspie	NH832998	sea front	08/05/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
Brora Golf Course	NC910039	club house	23/06/2011
East Shore Street Helmsdale	ND029152	village	07/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Front Street Embo	NH817927	village	18/05/2012
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Embo	NH817928	village	08/05/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

NVC: OV 16,18,22,23,24,25

Malva neglecta Wallr. *Dwarf Mallow*

o th 6

Malva rotundifolia sensu L.(1754) et auct., non L.(1753)

Dry waste places, gateways, roadsides, near farms, and on rubbish tips in small quantity; often under walls in villages. Uncommon the lowlands.

Tower Lodge Golspie	ND085002	15/07/1976	M. Marshall
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NC80 ND01 NH89

[**Malva arborea** (L.) Webb & Berthel. *Tree-mallow*]

• h 7

Lavatera arborea L.

Recorded from Easternness and the Moray coast.

Malva x clementii Cheek = **M. thuringiaca x M. olbia**
Lavatera x clementii *Garden Tree-mallow* or *Tree Lavatera* • m 6

A very popular garden shrub, found increasingly as an outcast on roadsides and waste ground where garden waste has been fly-tipped. Grown as many cultivars, with flowers varying from deep pink to pure white, but it is the pink forms that are found as outcasts and escapes. Most plants recorded in the past as *Lavatera thuringiaca* belong here.

Embo	NH817928	waste ground	11/07/2010
Braehead Terrace Portgower	ND008134	village	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Doll	NC888028	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Alcea rosea L. *Hollyhock*
Althaea rosea (L.) Cav.

• h 7

In every cottage garden, and one of the commonest garden escapes. Seedlings found in every village at pathsides, below walls and on disturbed waste ground, but never far from buildings.

Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Rosehall	NC470021	village	12/07/2010
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Kirkton	NH799986	farmstead	10/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Embo	NH817928	village	08/05/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Church Street Golspie	NH829997	bungalows	16/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

Sidalcea malviflora (DC.) A. Gray ex Benth. *Greek Mallow*

• h 7

A rare garden outcast.

Kildonan Station NC901217 03/08/1999 BSBI

NC92

Struie Road Dornoch	NH800895	suburbia	11/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Rosehall	NC470022	village	09/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013

Tilia platyphyllos Scop. *Large-leaved Lime* ● mm 6

An alien planted tree in parks, shrubberies, etc. Occasionally self-sown. Told from the other two Limes by its leaves which are softly pubescent beneath. Very local and rare.

NC70

NVC: W 8

Tilia x europaea L. *Lime* ● mm 6
Tilia x vulgaris Hayne

Common and widespread. Typically planted.

NC40 NC50 NC70 NC73 NC80 NC83 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Dornoch Cathedral	NH797897	churchyard	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Golspie Station	NH825997	railway	11/04/2010
Clashmore	NH747895	village	10/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Carnegie Wodland	NH732892	parkland	09/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Kirkton	NH799986	farmstead	10/07/2011
West Shinness Lodge	NC530151	hamlet	08/09/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Achany Glen	NC570020	woodland	16/05/2012
Pittentrail	NC726019	village	04/05/2013

Big Burn Backies	NC834014	woodland	05/05/2013
Big Burn car park Backies	NC837013	woodland	05/05/2013
Skelbo Castle	NH792951	ruins	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Golspie High Street N end	NC837002	terrace	06/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Sciberscross Lodge	NC775100	parkland	10/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale House	NH713897	parkland	10/07/2013
Invercassley House Rosehall	NC474015	parkland	28/06/2014
St Callan's Rogart	NC738035	hamlet	10/05/2015
Strath Oykel	NH496999	riverbank	12/05/2015
Invercassley House Rosehall	NC474015	parkland	10/05/2015
Clashmore	NH745895	hamlet	17/05/2015

Tilia cordata Mill. *Small-leaved Lime*

mm 7

There may be some natives, but most individuals are planted trees in scattered localities, rarely as plantations. Told from *T. x europaea* by the way it holds its flowers obliquely erect above the foliage (not pendant amongst the foliage). Very local and rare.

NC40

Kinbrace	NC862317	hamlet	16/06/2015
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NVC: W 8,10

THYMELAEACEAE

Daphne mezereum L. *Mezereon*

n 2

All of our plants are garden escapes.

NC50

Achany walled garden	NC571015	15/07/1973	J.E. Kirby
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010

[Daphne laureola L. *Spurge-laurel*]

n 2

Oak and beech woods on calcareous soils, in small quantity. Local and absent from very acid soils. Seldom more than one or two plants at any site.

Easter Ross, Easternness and on the Moray coast.

CISTACEAE

Helianthemum nummularium (L.) Mill. *Common Rock-rose*

chw 6

Cistus nummularius L.

Helianthemum chamaecistus Miller

Helianthemum vulgare Gaertner, nom. illegit.



Helianthemum nummularium v. *silvestre iberica*

Dunes and open, south-facing dry banks and rocky places. In damp dune slacks, it is confined to dry sandy mounds that stand proud of the water table (as at Embo). Widespread in the lowlands, but uncommon.

Strathstevan	NC880013	15/07/1975	J.E. Kirby
Migdale Rock	NH649908	17/05/1981	Butler, Mr J.K.
Migdale Rock	NH648908	12/05/1982	Angus & MacLennan
Migdale Rock	NH648908	18/05/1982	Stirling & Mitchell

Achormlarie NH701949 13/07/1990 M.J. Crawley

NC60 NC70 NC71 NC80 NC81 NC90 NC91 NH68 NH69 NH78 NH79 NH89

Embo Links	NH816932	dune slacks	11/07/2010
Achormlarie	NH701949	cleugh woods	13/07/2010
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Coul Links	NH804950	dune heath	23/06/2011
Embo dune slacks	NH816931	dune slacks	23/06/2011
Embo dune slacks	NH816932	dune slacks	23/06/2011
Embo dune slacks	NH815934	dune slacks	23/06/2011
Embo dune slacks	NH815935	dune slacks	23/06/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Inchcape	NC690030	composite	16/07/2011
Rhemusaig Quarry Rogart	NC731020	abandoned quarry	10/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012
Migdale Rock	NH648908	crag	18/05/2012
Embo dune slacks	NH815933	dune slacks	18/05/2012
West Rearquhar	NH732931	heathy bank	09/07/2013
Embo Dunes	NH815933	dune slacks	11/06/2015

NVC: MG 1; CG 4-10; MC 9, 11; OV 39

TROPAEOLACEAE

Tropaeolum majus L. *Nasturtium*

• th 6

A common garden annual, often rampant by the end of summer and often thrown out onto tips in autumn. Seldom self-sowing outside gardens, but comes readily from spilled seed. Walls, pavements and waste ground. Casual on rubbish tips.

Lonemore	NH764884	hamlet	11/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Morvich	NC753007	hamlet	11/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Glenelg	NC737050	hamlet	10/09/2012
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
West Shinness Lodge	NC530151	hamlet	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012

Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
High Street Lairg	NC584063	village	02/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Park Terrace Brora	NC905040	village	13/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

Tropaeolum speciosum Poepp. & Endl. *Flame Nasturtium* ● hp 6

A garden escape, occasionally found growing through hedges in villages, but never far from the garden in which it was planted.

Hilton of Embo	NH804915	hamlet	04/07/2013
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[**Tropaeolum peregrinum** L. *Canary-creeper*] ● th-hp 6

A garden outcast, casual on rubbish tips. This is the familiar chrome-yellow-flowered climber.

[**Tropaeolum ciliatum** Poepp. & Endl. *Climbing Nasturtium*] ● hp 7

Dull-orange flowers densely cover this uncommon climber

LIMNANTHACEAE

Limnanthes douglasii R. Br. *Meadow-foam* ● th 6

A frequent garden plant, used for edging perennial beds and growing beneath roses. Self-sowing freely in gardens and often becoming weedy. An occasional garden escape or throw-out, seldom long persistent.

Helmsdale Harbour	ND029151	terrace	19/06/2011
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Lower Brora	NC908037	bungalows	11/05/2015

RESEDACEAE

[**Reseda odorata** L. *Garden Mignonette*] ● th 6

A relatively uncommon garden annual of herbaceous borders grown for its sweet-scented flowers. Only as an outcast on rubbish heaps etc. & not naturalised.

Reseda luteola L. *Weld* ○ hs 6 †

Waysides, quarries, fields, walls, dry banks, former railway yards and disturbed ground, especially on acid soils. Told from *R. lutea* by its leaves: entire in *R. luteola*, pinnate in *R. lutea*.

Very rare, and not recorded recently. On the railway at Invershin in 1888.

[**Reseda alba** L. *White Mignonette*] ● th-h 6

A rare casual on waste ground. Told from the pinnate-leaved *R. lutea* by its 4 (not 3) carpels, persistent filaments and tuberculate (not smooth) seeds.

Recorded from Easternness and the Moray coast.

[**Reseda lutea** L. *Wild Mignonette*] h 6

Fields, waysides, arable land, disturbed ground and cinder tracks. As common in the north as *R. luteola*, from which it is told by its divided (pinnate not entire) leaves.

Recorded from Easternness and the Moray coast.

CLEOMACEAE

[**Cleome sesquiorgyalius** Naudin ex C. Huber *Spiderflower*] ● th 7

A spectacularly tall garden escape, with very long, prominent stamens.

BRASSICACEAE

Erysimum cheiranthoides L. *Treacle-mustard* ○ th 6

Arable land, garden ground, waste places and disturbed ground on acid soils. Very plastic in size: less than 5cm tall on the poorest soils, to more than 100cm on the most fertile sites. Possessed of a very long-lived seed bank, and so moved about with topsoil, springing up wherever imported topsoil is used for landscaping. Local and rare.

Rovie Lodge Rogart	NC713038	14/08/1972	L.S. Garrad det. David McClintock
Royal Dornoch Golf Club	NH 805896	27/07/1994	M.J. Crawley

NC70

Cyderhall Farm Cuthill	NH764892	arable	04/07/2013
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[**Erysimum x marshallii** (Henfr.) Bois *Siberian Wallflower*] ● ch 4
Erysimum x allionii = **E. decumbens x E. perofskianum**

This is the wallflower with bright orange flowers. Told from orange flowered *E. cheiri* by its bilobed (not divergent-lobed) stigma, and fruits that are square in cross section (not flattened).

Erysimum cheiri (L.) Crantz *Wallflower*
Cheiranthus cheiri L.

o ch 4

On old stone walls, especially of limestone or brick-and-flint. Known from other Wallflowers by its distinctly flattened fruits and its stigma with two diverging lobes. The most popular cultivar is 'Bowles' Mauve' (see below). Most often seen close to gardens.

Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Embo	NH815928	village	11/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Embo	NH817928	village	23/06/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Uppat Place Brora	NC903034	council houses	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Navidale House Hotel	ND039158	parkland	05/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Embo	NH817928	village	08/05/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Grange Road Dornoch	NH800896	village	29/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Earls Cross Road Dornoch	NH800900	suburbia	21/06/2015
Lairg	NC579068	bungalows	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Lairg	NC581068	council houses	10/05/2015
Embo	NH816928	village	08/05/2015
St Callan's Rogart	NC738035	hamlet	10/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Camore Crescent Camore	NH777903	council houses	08/05/2015
Victoria Crescent Brora	NC907042	council houses	14/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Harbour Road Helmsdale	ND026154	village	17/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Navidale House Hotel	ND039158	parkland	14/06/2015
Navidale	ND037161	hamlet	14/06/2015

NVC: OV 22,39

Erysimum 'Bowles Mauve'

• ch 4

Bonar Bridge	NH611911	suburbia	12/07/2010
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

Arabis petraea (L.) D.I. Dorof. *Northern Rock-cress*

ch 4

Arabis petraea L. Lam.

Cardaminopsis petraea (L.) Hiitonen



Arabidopsis petraea Carl Farmer

Mountain rock ledges, crevices and rocky slopes. Local and rare.

Ben Griam Beg		15/07/1962	A. McG. Stirling
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe

NC84

Arabidopsis thaliana (L.) Heynh. *Thale Cress*

th 4

Arabis thaliana L.

Sisymbrium thalianum (L.) Gay

Waste ground, pavements, brickwork, sandy fields, flowerbeds, heaths, walls, gutters on buildings, dry open grassland, dry arable fields and cinder tracks.

NC50 NC60 NC70 NC80 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH68 NH69 NH78 NH79 NH89

Dornoch The Meadows	NH799893	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010

Golspie Station	NH825997	railway	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora SW	NC901038	waste ground	11/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Brora	NC910041	suburbia	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Clynesh Distillery Brora	NC896054	waste ground	08/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
North Brae Brora	NC906040	terrace	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kintradwell	NC922074	railway	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Rhivaig Overskibo	NH724895	hamlet	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Golf Course Golspie	NH826995	bungalows	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011

Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011

etc.

NVC: OV 3,39,41; U 1

[*Camelina microcarpa* Andr. ex DC. *Lesser Gold-of-pleasure*]
Camelina sativa subsp. *microcarpa* (Andrz. ex DC.) Thell.

• th 6

Style more than one third as long as rest of fruit. Similar places to *C. sativa* but much less common.

Recorded from Easternness and the Moray coast.

[*Camelina sativa* (L.) Crantz *Gold-of-pleasure*]
Myagrum sativum L.

• th 6

Cornfields, waste places, railway banks. A rare casual of sown fields and rubbish tips. Style less than one third as long as rest of fruit.

Recorded from Easternness and the Moray coast.

[*Neslia paniculata* (L.) Desv. *Ball Mustard*
Vogelia sagittata Medick.

• th 6

A casual, once common now rare.

Recorded from the Moray coast.

[*Capsella bursa-pastoris* (L.) Medik. *Shepherd's-purse*
Thlaspi bursa-pastoris L.
Bursa pastoris Wigg.

○ th 1

Dry arable fields, roadsides, waste ground, gardens, paths, gateways, wall tops and disturbed ground. Stace (2010) reckons that about 25 segregates have been named in the British Isles. Conspicuous when not in flower with its bright green rosettes of sagittate toothed, dandelion-like leaves. Absent from closed vegetation and from deep shade. Widespread in the lowlands, but noticeably less frequent than in the south.

NC30 NC40 NC50 NC51 NC60 NC61 NC70 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90
 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Astle	NH745919	hamlet	10/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Royal Dornoch Golf Club	NH800894	waste ground	18/06/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Cattle feeder Strath Fleet	NH767993	poached ground	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Stittenham Road Helmsdale	ND026155	walled gardens	09/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Rosehall Bridge	NC471022	stonework	19/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Station Terrace Brora	NC906409	terrace	07/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Embo	NH817928	village	08/05/2013
Dornoch Firth Causeway	NH747863	embankment	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Cyderhall Farm Cuthill	NH764892	arable	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Glashbuie North Brora	NC903536	derelict building	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Fiag Lodge green roof	NC454281	bare ground	26/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015

Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Dalchalm	NC909054	gravel	19/06/2015
Achinchanter N of Dornoch	NH800903	disturbed ground	21/06/2015
Kildonan Station Cottage	NC901216	disturbed ground	17/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Borrobol Lodge	NC871264	cultivated ground	17/06/2015
Campbell Street Dornoch	NH791895	new housing	11/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015

NVC: MG 1,7; OV 3,4,7-10,14,16,18-23,25,33

Barbarea vulgaris W.T. Aiton *Winter-cress* h 5
 Barbarea arcuata (Opiz ex J.S. Presl and C. Presl) Reichb.

Banks of rivers, ditches, moist places, waste ground, roadsides and soil piles, not all of them damp. Druce recognised 3 varieties which he dug up assiduously, and sent around the Botanical Exchange Club in 1892 and 1893. Local and uncommon.

Rogart 15/07/1959 M. McC. Webster

NC70 NH78 NH79

Tomich	NC610049	waste ground	13/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011

NVC: OV 24

Barbarea vulgaris var. arcuata

NW Embo NH799945 23/06/1980 M.J. Marshall

Barbarea intermedia Boreau *Medium-flowered Winter-cress* ● hs 5

Sown grassland, waste ground and rubbish tips; rare and sporadic. Told from *B. vulgaris* by its pinnate (not entire) upper stem leaves.

Brora Harbour NC909037 waste ground 12/05/2011

Also recorded from Easternness and the Moray coast.

Barbarea verna (Mill.) Asch. *American Winter-cress* ● hs 4
 Erysimum vernum Miller
 Barbarea praecox

A rare alien of waste ground and railways. Told from *B. intermedia* by its bigger fruits (more than 4cm) and longer petals (more than 5.6mm). Very local and rare.

Roses Cottage Dalmore NC709035 15/09/1978 M.J.Marshall det.G.A. Matthews

NC70

Marrel ND016173 hamlet 14/06/2015

[Rorippa islandica (Oeder ex Gunnerus) Borbás *Northern Yellow-cress*] th 6
 Sisymbrium islandicum Oeder ex Gunnerus
 Rorippa palustris auct., non (L.) Besser

Margins of rivers and streams. There may have been some confusion in the historic records in this section of the genus (there are no herbarium specimens). The fruit is several times as long as the pedicel (2-3 times), but much shorter (0.8-2 times) in *R. palustris* (which is the common yellow-cress of gardens and damp, compacted waste ground in towns).

Recorded from Easternness and the Moray coast.

NVC: OV 20,32,35; S 10,23

[Rorippa palustris (L.) Besser *Marsh Yellow-cress*] th-hel 6
 Sisymbrium amphibium L. var. palustre L.

Damp compacted waste ground and pavements, damp gardens, bonfire sites, banks of rivers, ditches, meadows, pond-sides, roadsides and other muddy places. Told from *R. sylvestris* by its shorter petals (as long as or shorter than the sepals, rather than 1.5 times as long) and non-rooting stems. This is the relatively common weed of damp shady places, both cultivated and waste.

Recorded from Easternness and the Moray coast.

NVC: OV 29,31

Rorippa sylvestris (L.) Besser *Creeping Yellow-cress* hel 6
 Sisymbrium sylvestre L.

Wet meadows, margins of rivers and ponds. Also a weed of arable land and damp waste ground. Care is needed with plants growing on paths, gardens and waste ground: *R. sylvestris* has longer petals (> 1.5 times the sepals, roughly equal lengths in *R. palustris*), and the fruit is longer (8-18mm rather than 4-7mm excluding the pedicel). Very local and rare. The Shinness Lodge population had come from the seed bank following burning of the ground layer of clear-felled forestry. Ten or so vigorous plants were growing with *Senecio sylvaticus* and other well known seed-bank species.

ND01

Shinness Lodge NC539141 estate 11/07/2011

NVC: OV 28,32; S 23

Nasturtium officinale W.T. Aiton *Water-cress* hel 5
 Sisymbrium nasturtium-aquaticum L.
 Rorippa nasturtium-aquaticum (L.) Hayek

Margins of rivers, streams and ditches, in wet places on nutrient-rich mud (as *R. nasturtium*). The seeds are in 2 rows under each valve of the silique. Probably somewhat over-recorded in the past for *R. microphlla*. The best way to be sure about your identification is to look at the seeds under high

power: *N. officinale* has few, big hexagonal “cells” on the surface of the seed (typically fewer than 12 cells across the maximum width of the seed).

NC30 NC50 NC52 NC80 NC90 NC91 ND01 NH78 NH89

East Kinnauld Quarry	NC743014	quarry	13/05/2011
Proncy Cottage	NH771918	ditch	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Portgower	ND010134	shingle beach	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Shore Street Dornoch	NH798895	stream	05/07/2013
Witches Pool RD Golf Club	NH800892	pond	08/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Loch Fleet	NH773962	ditch	29/06/2014
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Navidale Stream	ND042160	stream	17/06/2015
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015

NVC: A 1,3,5,17,20; S 5,6,12,14,22,23,28

[*Nasturtium* x *sterile* (Airy Shaw) Oefel. *Hybrid Water-cress* = *N. officinale* x *N. microphyllum*]
 Rorippa x *sterilis* Airy Shaw = *R. nasturtium-aquaticum* x *R. macrophylla*

Recorded from Ester Ross, Easternness and the Moray coast.

Nasturtium microphyllum (Boenn.) Reichb. *Narrow-fruited Water-cress* hel 5
Nasturtium uniseriatum H. Howard and Manton
Nasturtium officinale W.T. Aiton var. *microphyllum* Boenn.
Rorippa microphylla (Boenn.) Hyl. ex Á. Love and D. Löve
Rorippa nasturtium-aquaticum (L.) Hayek subsp. *microphylla* (Boenn.) O. Bolòs and Vigo

Margins of ponds and ditches and about springs in woods. By streams and ditches on nutrient rich mud; more shade tolerant than *Nasturtium officinale*. Clearly much less common, but probably under-recorded. Told by the seeds in 1 row (not 2) under each valve of the fruit. The best way to be sure about your identification is to look at the seeds under high power: *N. microphyllum* has many, small hexagonal “cells” on the surface of the seed (typically more than 12 cells across the maximum width of the seed).

NC80 NC91 ND01 NH78

[***Armoracia rusticana*** P. Gaertn., B. Mey. & Scherb. *Horse-radish*] o h 5
Cochlearia armoracia L.
Armoracia lapathifolia Gilib., nom. inval.

Roadsides, river-sides, abandoned allotments, waste places; rarely in quantity. One of the most persistent of garden outcasts with a deep, long-lived tap root. Common in towns and villages, but

often seen a long way from houses, typically on roadside verges where garden rubbish was fly-tipped in the past.

Recorded from Easternness and the Moray coast.

Cardamine amara L. *Large Bitter-cress* hs 4

Damp woods, osier holts, woodland springs and stream-sides and river banks on nutrient-rich soil. Local and seldom abundant. Told from *C. flexuosa* (also found by springs in alder woods) by its larger petals (5.5mm or more) and its blackish violet anthers.

Pittentrail	NC725017	river-side	01/07/2013	Morven Murray det. Ken Butler
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Also ecoreded from Easternness and the Moray coast.

NVC: M 36; S 7; W 5

Cardamine pratensis L. *Cuckooflower* hs 4

Damp meadows, grassy fields, thickets, damp woods, marshes, etc. Common and generally distributed. The plant can regenerate vegetatively by rooting of leaf fragments. The double flowered ('Flore Pleno') form is common in gardens and occasionally escapes.

NC30 NC31 NC32 NC33 NC40 NC42 NC50 NC51 NC52 NC60 NC62 NC63 NC70 NC71 NC72
NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69
NH78 NH79 NH88 NH89

Loch Migdale N shore	NH632916	loch side	10/07/2010
Glaslochan Links N Brora	NC912060	stream	11/07/2010
Carbisdale Castle	NH576958	flood meadow	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
West Merkland	NC384329	stream	13/05/2011
Dalnaclave ruined croft	NC388164	stonework	10/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
Rhian Bridge	NC563165	hamlet	11/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Riemarstaig watershed	NC609056	dry heath	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Rhilochan	NC743071	roadside	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011

Tormore Glen Brora	NC789106	stream	12/05/2011
Ascoile Glen Brora	NC824107	stream	12/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Loch an Ruathair	NC871357	loch side	11/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
Lothmore gravel pi t	NC970105	pond	12/05/2011
Lothmore gravel pit	NC970106	pond	12/05/2011
Kilmore Lothmore	NC973113	farm	12/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
E Loch Buidhe	NH673983	wet heath	13/05/2011
Spinningdale	NH674899	meadow	07/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Wind Sock Dornoch Airfield	NH800883	sand dunes	09/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
S Embo links	NH815920	links	14/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
Ben Uarie mid slope	NC929160	heather	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Royal Dornoch Golf quarry	NH806895	quarry	20/05/2012
Raemore Woods	NC540023	streamside	19/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
R. Oykel N Bank Lubcroy	NC359018	riverbank	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Strath Carnaig W edge	NH716982	birch wood	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Glen Loth	NC943118	streamside	17/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012

Beinn Dhorain	NC929146	streamside	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Achue	NH696912	hamlet	16/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Loch Brora	NC856079	stream bank	05/05/2013
Glen Sletdale	NC902157	stream bank	01/07/2013
Creag a'Bhodaich Sletdale	NC911149	stream bank	01/07/2013
Allt a'Choire Riabhaich	NC909129	wooded stream	01/07/2013
Creag a'Chrionaich Sletdale	NC924115	dry heath	01/07/2013
R Brora W of Braeegrudie	NC715101	riverbank	07/07/2013
West Rearquhar	NH732931	roadside	09/07/2013
etc.			

NVC: M 13,22,24,27; MG 4-7,9,10; OV 26,35; S 1,3,4,6,18,19; W 5

Cardamine flexuosa With. *Wavy Bitter-cress*

th 4

Wet woodlands (birch, oak and alder), damp shady places, brook-sides, bare soil on woodland rides, garden beds and damp, shaded waste ground. *C. flexuosa* (6 stamens) also occurs as a weed in built-up areas, where it can be mistaken for *C. hirsuta* (4 stamens). [Also, look out for the alien *Cardamine corymbosa* Hook. f. *New Zealand Bitter-cress* which also has 6 stamens, but which differs from *C. flexuosa* in having fewer than 4 leaves on the stem, 3-7 (not 5-17) leaflets, and larger petals (2-2.8mm wide rather than 1-2mm).]

NC31 NC32 NC33 NC40 NC41 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70 NC71 NC72
NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69
NH78 NH79 NH89

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
East Clyde	NC893062	stream	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
A9 verge S of Lothbeg	NC941098	roadside	11/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011

Spinningdale	NH674896	woodland	10/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
Overskibo Curling Pond	NH727902	pond	14/05/2011
Skibo Castle N drive	NH728869	parkland	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Achentoul Burn	NC897326	waterfall	19/06/2011
Ben Griam Mor N-facing	NC803389	crag	21/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Coill a Chnocain	NC446014	oak woodland	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Marians Rock Quarry	NC742013	quarry bottom	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Dunrobin Castle garden wall	NC852008	stonework	17/05/2012
Big Burn Bridge Golspie	NC840005	stonework	17/05/2012
etc.			

NVC: M 27,36; OV 26,29; W 1,6,8,22

Cardamine hirsuta L. *Hairy Bitter-cress*

th 4

Open sandy or gravelly ground, walls, ditch banks, railway ballast, damp paths, roadsides, waste ground, and gardens. This is our common weedy Bitter-cress. Locally abundant on acid, gravelly soil and widely distributed. Not known from closed vegetation (cf. *C. flexuosa*).

NC30 NC33 NC40 NC42 NC50 NC51 NC52 NC60 NC70 NC71 NC73 NC74 NC80 NC81 NC82
NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Longuish Road Junction	NH644919	waste ground	10/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Rosehall Church	NC485012	churtyard	10/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011

Pittentrail	NC726020	village	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Duke Street Golspie	NC838001	stonework	09/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kildonan Farm	NC910209	farm	11/05/2011
A9 verge S of Lothbeg	NC941098	roadside	11/05/2011
N Portgower	ND013137	roadside	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Rhivaig Overskibo	NH724895	hamlet	07/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Astle	NH745919	hamlet	10/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
S Embo links	NH815920	links	14/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Golf Course Golspie	NH826995	bungalows	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Spinningdale	NH675897	waste ground	18/06/2011
Royal Dornoch Golf Club	NH800894	waste ground	18/06/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Helmsdale Harour	ND029151	terrace	19/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
N of Coire Gorm	NC360290	crags	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011

Ben Griam Mor SW crags	NC800380	composite	15/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Sputie Burn Doll	NC884026	fallow	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Creag an Sgamhlainn	NC370328	disturbed ground	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Dornoch Coastguard Station	NH802892	open ground	20/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Bonar Bridge	NH610915	street	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2013
etc.			

NVC: OV 20-22

[**Cardamine corymbosa** Hook. f. *New Zealand Bitter-cress*]

• th 5

Cardamine uniflora (Hook. f.) Allan non Michx.

Paths in gardens, etc.

Recorded from Easternness and the Moray coast.

[**Lepidium sativum** L. *Garden Cress*]

• th 6

This is the Cress of “Mustard and Cress”, usually cut down and eaten long before any true leaves form. Commercial Mustard and Cress seed often contains only Mustard (*Sinapis alba*) because this germinates more rapidly, and more uniformly. Outcasts sometimes reach maturity in waste places, or on heaps of garden refuse. Not permanent. The pepperworts are distinguished on the degree of division of the middle and lower stem leaves and the nature of the covering of the fruit. This species has large fruits (> 4.5mm) and non-clasping, pinnate stem leaves.

Recorded from Easternness and the Moray coast.

Lepidium campestre (L.) W.T. Aiton *Field Pepperwort* ○ th 5
Thlaspi campestre L.

Dry banks, cornfields, sunny waysides, open places in woods, waste ground and wall-tops. In small quantity, local, and absent from the wetter districts. Told by its clasping, undivided stem leaves which are shortly dentate, short style (not conspicuously longer than the sinus in which it sits), and by the distinctive covering of the fruit (hemispherical, scale-like vesicles).

Tirryside Lairg NC572139 06/08/1999 BSBI

NC51

Lepidium heterophyllum Benth. *Smith's Pepperwort* h 5
Lepidium smithii Hook.

Hedge-banks, commons, roadsides, railway embankments, waste ground; local and rare. It shares its very distinctive stem leaves (entire, with acute clasping auricles) with *L. campestre*, from which it is told by its long style (exceeding the apical notch of the fruit), and by the absence of scale-like vesicles on the fruit.

Lairg	15/07/1960	M. McC. Webster
Tressady	15/07/1960	M. McC. Webster
Rogart	15/07/1960	M. McC. Webster
Helmsdale	15/07/1960	M. McC. Webster
Strathsteven	15/07/1960	M. McC. Webster

NC50 NC60 NC70 NC80 ND01

[Lepidium virginicum L. *Least Pepperwort*] ● th 5 †
Lepidium densiflorum Schrader
Lepidium neglectum Thell.

An infrequent casual of wool and bird-seed introduced from North America, long extinct. Known by its small (2.3-4mm wide) but not tiny fruits (*L. ruderale* has smaller fruits 1.5-2.7mm), and by its relatively deep apical notch (more than 2mm deep, about one tenth of the length of the fruit).

Recorded from Easternness and the Moray coast.

Lepidium ruderale L. *Narrow-leaved Pepperwort* ○ th 5 †

Waste ground, gardens, cinder beds, bare soil, rubbish tips and walls. Local and sporadic. Known at once by its tiny fruits (1.4-2.3mm wide) and by its entire (not dentate), non-clasping stem leaves with their rounded (not acute) tips. Not seen recently.

S of Golspie NH827995 19/09/1978 M.J. Marshall det. R.J. Pankhurst

NH89

[Lepidium draba L. *Hoary Cress*] ● h 5
Cardaria draba (L.) Desv.
Lepidium draba subsp. **draba**

Waste places, railway banks and dry roadsides, forming dense monocultures. It is a rhizomatous, patch-forming perennial, and this can make it a pernicious and persistent weed. Possession of rhizomes is a highly unusual growth-form for a crucifer, most of which have tap-roots. According to botanical legend, its alternative English name, *Thanet Cress*, derives from its introduction to Britain in mattress-stuffing brought back by fever-stricken troops returning from the ill-fated expedition to the island of Walcheren in 1809 (106 men died in action fighting the French, but 4,000 died from disease). The troops landed at Ramsgate in Kent and their mattresses were subsequently sold to a farmer on the Isle of Thanet, who ploughed in their contents for manure. Needless to say, there is no evidence to support this story, and the truth is likely to be more prosaic. The plant appears to have been introduced at several docks in England and Wales in the early years of the nineteenth century. The first record was from Swansea docks in 1802, 7 years before the Walcheren invasion.

Recorded from Easternness and the Moray coast.

[*Lepidium coronopus* (L.) Al-Shehbaz *Swine-cress*] ○ th 6
Coronopus procumbens Gilib.
Lepidium squamatum Forssk.
Coronopus squamatus (Forssk.) Asch.

An occasional weed of oilseed rape and broad bean crops. Muddy, trampled ground by gates and ponds. Waysides, muddy margins of ponds, or on ground from which the turf has been removed by cattle. Nowadays much less common than *C. didymus*.

Recorded from Easternness and the Moray coast.

NVC: OV 7,8,10,13,18,19,21

Lepidium didymum* L. *Lesser Swine-cress ● th 7
Coronopus didymus (L.) Sm.

Dry arable fields, gardens and disturbed ground, especially on bare, compacted ground in towns and by roads. Possessed of a long-lived seed bank, it thrives briefly following mechanical disturbance of the soil, or when protracted summer drought has set back the perennial vegetation. Still very rare in East Sutherland.

West Drummuie Nursery NC833002 25/09/2006 P. Eaglesfield

NC80

NVC: OV 4,18,19,22

Subularia aquatica* L. *Awlwort

Stony or gravelly base-poor lochans, typically under water but occasionally exposed by summer droughts. Usually growing amongst *Isoetes lacustris*, *Littorella uniflora*, *Lobelia dortmanna* and *Juncus bulbosus*. Occasional in western lochans, rare in the east.

Loch Buidhe	NH652984	15/07/1959	John Anthony
Lochan na Gaoithe	NC600000	15/08/1976	M.J. Marshall
Loch na Claise Moire	NC385050	15/08/1984	E. Charter

Loch na Claise Moire	NC385050	15/08/1984	E. Charter
Loch Dola	NC600000	15/08/1984	E. Charter
Glas Loch Beag	NC600200	15/08/1984	E. Charter

NC30 NC31 NC32 NC33 NC40 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC71 NC72 NC73
NC74 NC80 NH69 NH78 NH79

NVC: A 13, 22, 23

Lunaria annua L. *Honesty*

• th-h 4 ↑

Hedge-banks and waste places near gardens; frequent. An essential member of the cottage garden community, sowing itself abundantly and escaping onto waste ground, hedge-banks, pavements and waysides in every town and village. The white flowered form, var. *albiflora*, occurs at a rate of about 1 in a 1000 outside cultivation, and there are variegated cultivars.

NC90 NH59

Helmsdale Station	ND020155	railway	06/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Camore	NH778903	council houses	12/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Dalchalm	NC909056	village	12/05/2011
N Helmsdale	ND026156	village	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Astle	NH745919	hamlet	10/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Golspie Golf Course	NH822989	links (white fls)	08/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Railway Terrace Brora	NC905040	garden	10/09/2012
Sutherland Street Helmsdale	ND028154	old walls	09/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Duke Street Golspie	NC838001	old walls	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Braefoot Portgower	ND010135	hamlet	05/05/2013
Helmsdale Station	ND023154	railway	05/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013

Alistair Road Golspie	NH827995	semidetached	07/05/2013
Main Street Brora	NC903391	street	07/05/2013
Brora Station	NC906414	railway	07/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Embo	NH817928	village	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Dalchalm	NC909054	gravel	19/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
North Brora	NC909044	bungalows	19/06/2015
Lairg	NC581068	council houses	10/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
NW Spinningdale	NH674899	hamlet	08/05/2015
Acheilidh	NC664038	hamlet	10/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Craigton	NH627960	hamlet	08/05/2015
Cennlocha	NH625921	hamlet	08/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
West Helmsdale	ND020154	hamlet	14/05/2015
Clashmore	NH745895	hamlet	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Victoria Crescent Brora	NC907042	council houses	14/05/2015
Achnaluachrach	NC679098	hamlet	13/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
West Clyne	NC905064	hamlet	14/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Plants with **white flowers** recorded from

Front Street Embo	NH817927	village	18/05/2012
Golspie Golf Course	NH822989	links	08/05/2011

[*Alyssum alyssoides* (L.) L. *Small Alison*]
Clypeola alyssoides L.

• th 5

A rare annual of grassy fields and arable land that was recorded widely in Britain before 1930, mostly as a casual alien. It persists from year to year in the Breckland of Suffolk and Sandlings of Norfolk. It was included in the first and second editions of the *Red Data Book* (1977 and 1983), but was excluded from the third edition (Wiggington, 1999) on the grounds that it was not native.

Aurinia saxatilis (L.) Desv. *Golden Alison*
Alyssum saxatile L.

• h 4

A widespread rockery plant, commonly planted on garden walls. One of the gardener's famous trilogy of crucifers, "The three A's" - *Arabis*, *Alison* and *Aubrieta* - which brighten rockeries and walls in spring with their white, yellow and purple flowers respectively. Occasional as an ephemeral garden escape or throw-out on pavements and open waste ground.

Dornoch Academy	NH789899	roadside	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Clashmore	NH747895	village	10/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
N Portgower	ND013137	roadside	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Astle	NH745919	hamlet	10/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Uppat Place Brora	NC903034	council houses	17/05/2012
Rosehall	NC470020	village	06/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Hilton	NH804915	hamlet	04/07/2013
Davochfin	NH778889	hamlet	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Dalchalm	NC909054	gravel	19/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
North Brora	NC909044	bungalows	19/06/2015
Lairg	NC581068	council houses	10/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
NW Spinningdale	NH674899	hamlet	08/05/2015
Acheilidh	NC664038	hamlet	10/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Lower Brora	NC908037	bungalows	11/05/2015

Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Craigton	NH627960	hamlet	08/05/2015
Cennlocha	NH625921	hamlet	08/05/2015

Lobularia maritima (L.) Desv. *Sweet Alison*

• th 6

Clypeola maritima L.

Alyssum maritimum (L.) Lam.

A popular cottage-garden, rockery and edging plant. Occasionally found self-sown on paving in towns and villages, or as a garden outcast on tips. Rare on disturbed waste ground. Flowering through the winter in some years.

Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
Rogart Station	NC724019	railway	10/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Doll	NC876034	hamlet	10/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
Braambury Road Brora	NC904048	bungalows	11/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

Descurainia sophia (L.) Webb ex Prantl *Flixweed*

○ th 6

Sisymbrium sophia L.

Waysides, sandy fields, rubbish tips and bare waste ground; local, rare and sporadic. Formerly abundant and locally dominant on disturbed eutrophic sandy ground by the tractor sheds on Royal Dornoch Golf Course (up to 1996), but now gone from there. Still found in the sand dunes nearby.

Golspie		15/07/1895	E.S. Marshall
Dornoch Links	NH800895	15/07/1957	John Anthony
A9 at Trentham Hotel	NH783928	15/07/1962	John Anthony
Royal Dornoch Golf Club	NH805896	27/07/1994	M.J. Crawley
Royal Dornoch Golf Course	NH804896	22/09/1996	M.J. Crawley

NC80 NH78 NH79 NH88

Dornoch Common Good	NH806879	sand dunes	13/07/2010
Dornoch Dunes N	NH806902	sand dunes	14/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Maintenance Yard RDGC	NH802893	in a trailer !	02/07/2013
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Deans Park Dornoch	NH792895	soil piles	11/06/2015

NVC: OV 3,17,19

Arabis caucasica Willd. ex Schldl. *Garden Arabis*

● ch 3

Arabis albida Steven ex M. Bieb.

Widespread rockery plant, occasionally found as an outcast on waste ground, and rarely self-sown in pavement cracks in towns and villages. One of the commonest wall-plants in gardens in vc. 107 and occasionally self sown on pavements and waste ground.

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Dalchalm	NC909056	village	12/05/2011
N Portgower	ND013137	roadside	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Centre Street Golspie	NH831999	mews	07/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Greenwood E Rosehall	NC481017	hamlet	19/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Pittentrail	NC726019	village	04/05/2013
Gordonbush Lodge	NC845096	walled gardens	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013
West Helmsdale	ND020156	hamlet	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
Rosehall	NC470020	village	06/05/2013
Main Street Brora	NC903039	street	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Pittentrail	NC726019	village	10/05/2015

Ord Place Lairg	NC580058	council houses	10/05/2015
Rosehall	NC470021	village	10/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Lonemore	NH764884	hamlet	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Arabis hirsuta (L.) Scop. *Hairy Rock-cress*

hs 6

Turritis hirsuta L.

Arabis brownii Jordan

Dunes, banks and basic rocks. Seeds in 1 row. Local and uncommon.

NC70 NC80 NH79 NH88 NH89

Marian's Rock	NC748013	crag	17/05/85 Farrell, Miss L.
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Dornoch Dunes Central	NH805895	sand dunes	14/07/2011
Dornoch Dunes N	NH806906	sand dunes	14/07/2011
Dornoch Common Good	NH805885	high dunes	11/06/2015

Arabis ferdinandi-coburgi J. Kellerer & Sünd. *Variiegated Arabis*

• ch 4

The is the common variegated *Arabis* sold in garden centres and planted on walls and rockeries. Seldom seen outside gardens. Like *A. procurrens* but the basal leaves are long petiolate (not sessile) and hairy on both surfaces (not glabrous above).

Ord Place Lairg	NC580058	council houses	10/05/2015
Invershin Station	NH579953	hamlet	12/05/2015

Aubrieta deltoidea (L.) DC. *Aubretia*

• ch 4

Alyssum deltoideum L.

A ubiquitous rockery plant, commonly planted on garden walls and at the edge of perennial borders. Occasional as a garden escape or throw-out in towns and villages everywhere. Sometimes self-sown in pavements and cracks in paving stones in towns.

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010

Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
N Portgower	ND013137	roadside	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Helmsdale Harour	ND029151	terrace	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
E of Skelbo	NH800948	hamlet	23/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Clashmore	NH747895	village	11/09/2012
Doll	NC888028	hamlet	10/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
East Clyne	NC896062	hamlet	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Greenwood E Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012

Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
etc.			

Draba incana L. *Hoary Whitlowgrass*

h 4



Draba incana asilkan.org

Contrasting habitats: on thin turf on sand dunes and on rock ledges in the mountains. Occasional.

Golspie		15/08/1897	E.S. Marshall
Ben More Assynt		15/06/1959	D.A. Ratcliffe
Creag na h'Uidhe	NC383372	07/06/1973	A.G. Kenneth
Dornoch	NH806894		John Anthony
Littleferry	NH807957		John Anthony
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe
E-facing Ben More Assynt		15/07/1977	Derek Ratcliffe
Coire a' Mhadaidh	NC305209	12/07/1998	Gordon Rothero

NC31 NC32 NC33 NC80 NC83 NC84 NC91 NH78 NH79 NH88 NH89

Royal Dornoch Golf Course	NH804896	sand dunes	22/09/1996
Camore Wood	NH771894	gravel pit	11/07/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010

Dornoch Common Good	NH806879	sand dunes	13/07/2010
Dornoch Dunes N	NH806906	sand dunes	14/07/2011
Dornoch Dunes N	NH806903	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Ben Griam Mor SW crags	NC802389	crags	15/07/2011

Draba norvegica Gunnerus *Rock Whitlowgrass*

h 4



Draba norvegica John Birks.

Bare places on mountain tops. Ben More Assynt (1888). Very local and rare.

NC31 NC32

E-facing crags on Ben More Assynt		1977	Derek Ratcliffe
Dubh Loch Mor	NC320190	crags 11/07/1998	Gordon Rothero
Ben More Assynt summit	NC320201	crags 12/07/1998	Gordon Rothero

Erophila verna (L.) DC. *Common Whitlowgrass*

th 3

Draba verna L.

Erophila praecox (Steven) DC.

Erophila vulgaris

Erophila conferta Wilm.
Erophila spathulata Láng
Erophila verna (L.) DC subsp. *spathulata* (Láng) Vollm.

Cinder paths, concrete pavements, open grassland, dry arable land, walls, dry banks, sandy and gravelly fields; generally distributed. The modern treatment (Stace, 2010) has 3 British species, and plays down the pod characters beloved of the Victorian splitters (they do not correlate at all well with more reliable cytological characteristics and breeding systems). Petioles 50-100% of leaf lamina length; petals bifid to half to three quarters of way to base. It disperses its seeds at the same time as *Cardamine hirsuta*, well before those of *Arabidopsis thaliana*.

NC30 NC50 NC60 NC70 NC71 NC80 NC82 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69
 NH78 NH79 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Invershin Station	NH580953	railway	12/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Pittentrail	NC726020	village	12/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Clynelish Distillery Brora	NC896054	waste ground	08/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Golf Course Golspie	NH826995	bungalows	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011

Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Dornoch Coastguard Station	NH802892	open ground	20/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Helmsdale	ND026154	village	05/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
High Street Golspie	NH830997	village	05/05/2013
Littleferry Dunes	NH807957	sand dune	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Embo	NH817928	village	08/05/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
R Helmsdale in Helmsdale	ND026152	riverbank	07/07/2013
Fiag Lodge green roof	NC454281	bare ground	26/06/2014
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Golspie	NC832000	village	08/05/2015
Pittentrail	NC726019	village	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Rosehall	NC470021	village	10/05/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Kinbrace Station platform	NC862316	compacted gravel	16/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Kinbrace Cemetery	NC859313	cemetery	16/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Creag Thoraraidh Helmsdale	ND033184	tarmac	14/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Victoria Crescent Brora	NC907042	council houses	14/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Laundry Road Lairg	NC586063	industrial	12/06/2015

NVC: OV 10; U 1

[*Erophila majuscula* Jord. *Hairy Whitlowgrass*] th 3
Erophila simplex Winge

Sandy ground inland, walls, railway lines and gravel paths. Leaves and lower stems densely grey pubescent. There are hairs on the flowering stem and on the lowest pedicel (pedicels hairless in *E. verna*). Petals bifid to less than half way to base. Petioles 20-50% of leaf lamina length (see below). The seeds are tiny (0.3-0.5mm dia.).

Recorded from the Moray coast.

[*Erophila glabrescens* Jord. *Glabrous Whitlowgrass*] th 3
Erophila quadriflex Winge
Erophila verna (L.) DC. var. *glabrescens* (Jordan) Diklic

Petioles 1.5 to 2.5 times the length of the laminas, subglabrous but with hairy edges, petals bifid to no more than half way to base. The upper stem and pedicels are completely hairless. Much less common than *E. verna*, but in similar habitats; worth looking for in early April. Very local and rare.

NH79

Dunrobin Street Helmsdale ND029152 grassy bank 05/05/2013

[*Diplotaxis tenuifolia* (L.) DC. *Perennial Wall-rocket*] o h 5
Sisymbrium tenuifolium L.

Old walls, very local. Distinguished by the possession of a distinct stalk (0.5-6.5mm) between the top of the pedicel and the bottom of the valves of the fruit. The flowers are big, bright and chrome-yellow. Poorly developed fruits show only one row of seeds, and so might key out as *Sisymbrium*.

Recorded from Easternness and the Moray coast.

NVC: OV 19

[*Diplotaxis muralis* (L.) DC. *Annual Wall-rocket*] ● th 6
Sisymbrium murale L.

Waste ground, gardens and rubbish heaps but chiefly on railway ballast. The bright chrome-yellow petals are smaller (4-8mm not 8-15mm) than in *D. tenuifolia*, and the fruit lacks a distinct stalk between the top of the pedicel and the bottom of the valves (but beware, because there *is* a gap of 1mm or so).

Recorded from Easternness and the Moray coast.

NVC: OV 7

Brassica oleracea* L. *Wild Cabbage ● ch 5

Easily told by its large pale lemon flowers, erect (not spreading) sepals, and the long cylindrical inflorescence with the top third consisting of unopened flower buds.

Dalchalm NC909056 village 12/05/2011

Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012

Also recorded from Easternness and the Moray coast.

Grown in a great variety of different genotypes as vegetable crops:

var **capitata** (L.) Alef *Cabbage* including Spring, Summer and Autumn cabbages, Winter white, Savoy cabbage, Savoy hybrids, January King and Red cabbage. Cow cabbages, grown as winter fodder crops are not seen nowadays.

var **gemmifera** DC *Brussels Sprouts* including Bedford Fillbasket, Early Half Tall, Mallard, Noisette, Peer Gynt, Widgeon, Montgomery, Rubine and many other named F1 hybrids.

var **acephala** DC *Kale* or *Collards* including Scotch and Siberian kales, collards, tree cabbage (also known as walking stick cabbage), Palm tree cabbage, and multi-coloured ornamental kales like the pink-petioled 'Coral Queen' and the thistle-leaved 'Russian Red' used in winter bedding schemes with pansies and wallflowers.

var **alboglabra** (Bailey) Sun *Chinese Broccoli*

var **italica** Plenk *Calabrese* or *Broccoli* including Purple Sprouting, White Sprouting and many named F1 hybrids

var **botrytis** L. *Cauliflower* including Garant, Markanta and Purple Cape

var **gongylodes** L. *Kohlrabi* with its short swollen stem forming an edible corm

Any of these varieties is liable to be found on allotment rubbish tips, or on waste ground near gardens. They seldom persist for long and very rarely regenerate from seed amongst established vegetation. Hosts to caterpillars of Large White Butterfly *Pieris brassicae*, Small White Butterfly *P. rapae*, and Cabbage Moth *Mamestra brassicae*.

Brassica napus L.

● th 4

Roadside verges, sides of fields and waste places. A taxonomically complicated group of plants, some planted, some wild. Individuals appear in a sporadic manner, and the species is not permanent in its localities. Told from *B. rapa* on the morphology of the inflorescence: in *B. napus* the buds overtop the uppermost petals (in *B. rapa* the top of the inflorescence is dish-shaped (depressed), so that the uppermost petals overtop the buds). Petal size and petal colour are also reasonably distinctive: *B. napus* has larger petals (more than 11mm) that are pale (not deep) yellow. Host plant of colourful chrysomelid beetles like *Phaedon cochleariae* (bright blue) and *P. armoraciae* (dark blue); the leaves are mined by *Chromatomyia horticola*; stems and fruits are attacked by Cabbage Aphid *Brevicoryne brassicae*. Frequent in the lowlands.

NC50 NC60 NC70 NC80 NC82 NC84 NC90 NC91 ND01 NH68 NH79

Brassica napus subsp. **oleifera** (DC.) Metzg. *Oil-seed Rape*
Brassica napus L. var. *oleifera* DC.

● th 4

Oilseed rape is currently one of the most profitable break crops following winter wheat, and the countryside glows yellow in April and May from the patchwork of EC-subsidised rape fields. Many people find the smell of the flowers unpleasantly sickly, and oilseed rape pollen can taint honey crops. Seeds are capable of protracted persistence in the soil seed bank, and oilseed rape plants (known as volunteers) are often seen amongst succeeding crops and on set-aside land. Seeds are often transported when arable topsoil is used for landscaping; masses of oilseed rape flowers appear for the first couple of years after the contaminated topsoil is spread. Seed spilled from lorries in transit from the farm to the oilseed processing factory at Erith in Kent are a major contributing factor to the populations of oilseed rape seen along roadsides in April; we know this because there are many more oilseed rape plants on the side of the road heading towards Erith where the lorries have a full load of seed, than in the verge coming back where the lorries are empty. Although the seed can survive for decades in the soil seed bank, above ground populations of oilseed rape seldom persist for more than about 3 or 4 years, before succumbing to competition from grasses. Semipermanent populations require constant soil disturbance to open up recruitment opportunities. The root is slender (not swollen). Told from *B. rapa* by the shape of the top of the inflorescence, in which unopened buds clearly over-top the youngest open flowers (in *B. rapa* the top of the inflorescence is dish-shaped, with the buds in the centre of the dish over-topped (and often hidden) by open flowers on the rim of the dish). It is irritating that Rape is not called *Brassica rapa*, but there you have it.

NVC: OV 13,42

Dornoch Firth Causeway	NH748864	imported topsoil	04/05/1992
Mill Way Brora Industrial Estate	NC904040	waste ground	08/05/2011
Embo	NH817928	village	23/06/2011
Brora Bridge	NC905039	village	07/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Coul road end	NH802945	fallow	18/05/2012
Embo House	NH803920	arable	04/07/2013
Hilton of Embo	NH804915	hamlet	04/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Elizabeth Crescent Dornoch	NH804902	new housing	14/06/2015
Achinchanter Dornoch	NH804909	waste ground	16/05/2015
Kildonan Station New Cottage	NC901216	disturbed ground	17/05/2015

Brassica napus* subsp. *rapifera Metzg. *Swede*

● th 4

Brassica napus L. subsp. ***nabobrassica*** (L.) O. Schwarz

Uncommon as a crop these days, and not seen recently. This is a rape with its root swollen into a yellow-fleshed tuber. You have probably been bored by the argument about whether the proper name for the vegetable is “turnip” or “swede”. The real answer is “it depends upon whether you are eating Turnip or Swede”! They are not synonyms. Swedes originated from Sweden in about 1775 (hence the name) and are traditionally eaten in midwinter in Scotland as an accompaniment to haggis when (even more confusingly) they are called “neeps”. Turnips are round and white- (not yellow-) fleshed, with a more watery consistency. Swedes and Turnips are critically distinguished only on the morphology of the inflorescence (see below).

Brassica rapa L. *Wild Turnip*

○ th 5

Told from *B. napus* by the dish-shaped top to the inflorescence, in which the uppermost petals overtop the unopened flower buds in the centre. The petals are smaller (< 12mm) and deeper golden yellow in colour.

There are three subspecies:

[Brassica rapa subsp. **campestris** (L.) A.R. Clapham *Bargeman's Cabbage*] ch 5
Brassica campestris L.
Brassica rapa L. subsp. *sylvestris* (Lam.) Janchen

A native wildplant of riverbanks

Brassica rapa subsp. **rapa** *Turnip* • th 5

Formerly a frequent escape from cultivation, but now uncommon. Formerly grown as a fodder crop, and found on lane sides and in ditches where turnips had fallen off farm trailers in transit. Vincent (1906) recounts the story of a Scots 'shooting type' going after partridge, and referring disparagingly to the paltry size of the turnips in his host's fields: "he had never been asked to shoot in a field of radishes before".

NC90 ND01

Ben Bhraggie Hotel Golspie NC838002 waste ground 09/05/2011
 Back Street Helmsdale ND026153 alley 09/09/2012

NVC: OV 4,19

[Brassica rapa subsp. **oleifera** (DC.) Metzg. *Turnip-rape*] • th 5
Brassica rapa L. var. *oleifera* DC.

This is a rare bird-seed alien with us; it is sometimes grown as an oilseed crop, but much less frequently than *B. napus* subsp. *oleifera*.

[Brassica juncea (L.) Czern. *Chinese Mustard*] • th 6
Sinapis juncea L.

Told from Turnip and Rape by the fact that the stem leaves do *not* clasp the stem. Told from *B. carinata* by the long beak (5-9mm rather than 2.5-6mm) on the fruit, and the lower leaves with 1-3 lobes (not 0-1).

Recorded from Easternness and the Moray coast.

[Brassica nigra (L.) W.D.J. Koch *Black Mustard*] th 5
Brassica sinapioides Roth.
Sinapis nigra L.

River-banks, waysides, arable fields, and margins of streams and ditches. Told from other crucifers with appressed fruits as follows: *Sinapis arvensis* has entire (not pinnate) upper stem leaves, *Sisymbrium officinale* has hairy sepals, while *Hirschfeldia incana* has grey rather than green leaves, and a single seed in the beak of its fruit (not seedless as in *Brassica* and *Sisymbrium*).

Recorded from Easternness and the Moray coast.

[Brassica tournefortii Gouan *Pale Cabbage*] • th 6

Recorded from Easternness and the Moray coast.

Sinapis arvensis L. *Charlock*

o th 5

Brassica arvensis (L.) Rabenh., non L.

Brassica sinapistrum Boiss.

Brassica sinapis Vis., nom. illegit.

Brassica kabera (DC.) Wheeler

The only yellow crucifer that is a common weed of arable fields (although oilseed rape often produces volunteers; see above); also on disturbed ground in towns. Told from *S. alba* by the beak of its fruit which is short (7-16mm) and conical (the beak of *S. alba* is larger (10-24mm) and flattened into the shape of a scythe). Local and uncommon.

NC33 NC50 NC60 NC70 NC74 NC80 NC84 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79
NH88 NH89

Languish Road Junction	NH644919	waste ground	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Track to Dornoch	NH804906	waste ground	14/05/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
High Street Lairg	NC584063	village	02/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Deans Park Dornoch	NH792895	soil piles	11/06/2015
Campbell Street Dornoch	NH791895	new housing	11/06/2015

NVC: OV 1,8,10,13,16,18,19,33

Sinapis alba L. *White Mustard*

o th 6

Brassica hirta Moench

Brassica alba (L.) Rabenh.

Sinapis alba subsp. **alba**

Cultivated fields. Much less common nowadays, and seldom used these days as a break crop or a green manure for ploughing in. This is the mustard of "Mustard and Cress" (the cress is *Lepidium sativum*). Naturalised or casual on waste ground, roadsides and tips, especially on calcareous soils. Local and rare in the lowlands. No recent records.

NC80 NH59

[**Sinapis alba** subsp. **dissecta** (Lag.) Bonnier]

● th 5

A rare casual of waste ground. Told by its 2-pinnate leaves with the terminal lobe not much longer than the adjacent laterals, and glabrous (not hispid) fruits.

Recorded from the Moray coast.

Eruca vesicaria subsp. **sativa** (Mill.) Thell. *Garden Rocket* • th 5
Eruca sativa Mill.

A rare casual of gardens and rubbish tips. An increasingly common salad vegetable amongst the trendy middle classes; likely to become more common as a garden escape.

Camore	NH778903	council houses	12/07/2010
Embo Street Hilton	NH800913	hamlet	10/07/2011

[Hirschfeldia incana (L.) Lagr.-Foss. *Hoary Mustard*] • th 6
Sinapis incana L.
Brassica incana (L.) Meigen, non Ten.

It has shown a massive increase in abundance in recent years. Now one of the commonest yellow-flowered crucifers of urban bare ground in southern England. Typically dies out within 2 to 5 years of establishment, unless the ground is kept open by repeated soil disturbance. Told by its appressed fruits, and distinguished from *Brassica nigra* by the fact that the beak of the fruit contains a single seed. The Latin name, *incana*, refers to the grey-green foliage, which is highly distinctive once you get your eye in for it.

Recorded from the Moray coast.

[Coincya monensis subsp. **cheiranthos** (Vill.) Aedo, Leadlay & Muñoz Garm. *Wallflower Cabbage*] • th 5
Rhynchosinapis cheiranthos (Vill.) Dandy

A rare casual of sandy ground and waste places.

Recorded from Easternness and the Moray coast.

Cakile maritima Scop. *Sea Rocket* th 5

Occasional on sandy and shingle sea shores, and on the seaward side of sand dunes.

NC80 NC90 ND01 NH78 NH79 NH88 NH89

Crackaig Links	NC961098	sand dunes	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Cuthill Links	NH748863	shingle	24/06/2011
Dornoch Links W	NH780880	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dunrobin Beach Golspie	NC842222	shingle beach	06/07/2013

NVC: SD 2-6

[Rapistrum rugosum (L.) Bergeret *Bastard Cabbage*] • th 5
Myagrum rugosum L.
Rapistrum rugosum subsp. **linnaeanum** (Coss.) Rouy and Foucaud
Rapistrum rugosum (L.) J. Bergeret var. *linnaeanum* Cosson

A rare casual of waste ground, roadsides, sewage works and arable land.

Recorded from Easterness and the Moray coast.

Crambe maritima L. *Sea-Kale*

h 5



Sea-Kale on the beach at Dunrobin Castle. *Crambe maritima* has been known from this site on the shingle beach north of Golspie since the late 19th century, but these may be intentionally planted (see below).

Very local and rare, but of uncertain status. Long known from the shingle fore-shore at Dunrobin Castle. First recorded in 1903 by George Claridge Druce who is said to have thought that it might be an escaped domestic cabbage before he realized what it was. It was refound by MJC in 2010 in exactly the same place, represented by a single plant on the top of the shingle below the sea wall (see below). It is probable, however, that this individual was intentionally planted by the head gardener at Dunrobin Castle, Iain Crisp, who had tried to grow the plant in soil in the garden with little success, so transplanted it to shingle on the beach (MJC personal communication May 2011). Here is what he wrote to me subsequently:

“I raised a number of seedlings of Seakale 'Lily White' from seed from Chiltern Seeds in 2001 intending to establish a seakale bed within the garden at Dunrobin. All the plants that I have planted in various different places within the garden have died out with the exception of a fragment of root which came from a group that was accidentally rotivated over. It became lodged against the concrete foundation of a strainer and has flourished.

In February 2002 I planted 9 small plants in 3 groups of 3 in a pocket of garden compost in a shingle bank more or less where the plant is now. They were protected for the first 2 years with rabbit netting extending down into the shingle.

Since that time much of the shingle has shifted with the tides so that only a smaller slope remains. By 2008 one largish group was remaining, in Feb 2009 nearly all the shingle was washed away and immediately afterwards I could see no trace of the plants, subsequently more shingle built up again over the place. That spring the plant reappeared, presumably from remaining bits of deep taproot. It has regrown to surpass its previous size now.

I've just had another look at the group and there appear to be 3 separate evenly spaced stocks so I guess that one group of 3 of the original plants is surviving.

The plants produce masses of fertile seed every year but do not seem to successfully germinate on the nearby shingle.

We collect seed regularly and raise plants to use in the garden. In the garden we produce forced shoots using forcing pots and also pick immature flower buds to eat like sprouting broccoli but as I say we have difficulty getting plants to survive and flourish.

The shingle bank where you photographed the plant has layers of old rotted seaweed deep inside it and that may be what the seakale likes.

I have some more young plants and if I get time I may plant another group further East near the site of the old pier where we have our bonfires” (Iain Crisp, in a letter of 21 May 2011).

The plants were there in 2012, but there was no sign of them in July 2013.

NC80

Dunrobin Castle beach	NC849005	shingle beach	11/07/2010
Dunrobin Castle beach	NC849005	shingle beach	09/05/2011

Crambe cordifolia Steven *Greater Sea-Kale*

• h 5

A statuesque garden plant with a massive spray of tiny white flowers in a broad, open panicle (a bit like a giant *Gypsophila*). Rarely found as an outcast, but not self seeding with us.

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Raphanus sativus L. *Garden Radish*

● th 5

A rare casual of rubbish tips. Radishes were included in the rations given to the workers building the Great Pyramid in Egypt in BC2780. Modern cultivated radishes come in 4 groups: white (or red), black, Mougri and oil-seed radish. In Europe, the crisp and crunchy white radishes are eaten fresh after as little as 25 days growth. In China and Japan, radishes are eaten cooked and sliced (often in soups), and take much longer to grow (even overwintering in some cases). The record weight for the cultivar called Sakurajima is 45 kg. These cold hardy forms may well naturalise in due course.

Borrobol Lodge NC871264 cultivated ground 17/06/2015

Raphanus raphanistrum L.

○ th 5

Raphanus raphanistrum subsp. **raphanistrum** *Wild Radish*

Cornfields on light sandy soils, and on disturbed waste ground. Uncommon with us in both its white- and yellow-petalled forms.

NC50 NC70 NC80 NC82 NC84 NC90 NC91 ND01 NH79 NH89

Matheson Road Bonar Bridge NH614916 bungalows 09/07/2011

Sisymbrium altissimum L. *Tall Rocket*

● th 6

Dry waste ground and rubbish tips. Rare and casual, declining. No recent records.

NC71 NH78

[Sisymbrium orientale L. *Eastern Rocket*]

● th 6

Sisymbrium irio auct., non L.

Cracks in paving, cinder tracks, railway ballast, soil heaps, rubbish tips and waste places. All but restricted to urban habitats.

Recorded from Easternness and the Moray coast.

Sisymbrium officinale (L.) Scop. *Hedge Mustard*

○ th 6

Erysimum officinale L.

Roadsides, dry arable fields, disturbed hedge-banks and waste places. Occasional in the lowlands.

NC80 NC90 NC91 ND01 NH68 NH69 NH78 NH79 NH88 NH89

Golspie Main Street	NH831999	street	11/04/2010
Golspie Station	NH825997	railway	11/04/2010
Louguish Road Junction	NH644919	waste ground	10/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Pittentrail	NC726020	village	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011

Dalchalm	NC909056	village	12/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Dunes Central	NH806895	sand dunes	14/07/2011
Dornoch Dunes N	NH807900	sand dunes	14/07/2011
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
sea front Golspie	NH832998	shingle beach	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Castle Street Dornoch	NH794897	village	08/05/2013
Maintenance Yard RDGC	NH802893	in a trailer !	02/07/2013
Dornoch Coastguard Station	NH802892	waste ground	02/07/2013
Davochfin	NH778889	hamlet	04/07/2013
Carn Liath	NC867013	lane	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Ross Avenue Dornoch	NH792897	new housing	29/06/2014
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Harbour Road Helmsdale	ND026154	village	17/06/2015
Park Terrace Brora	NC905040	village	13/06/2015

NVC: OV 3,7-9,13,16,18,19,22-25

Isatis tinctoria L. *Woad*

• h 7

A rare casual of waste and cultivated ground, formerly grown locally as a crop. Still grown occasionally in gardens as a curiosity for its attractive, pear-shaped glossy black seeds.

Helmsdale ND034152 07/08/1999 BSBI

ND01

Alliaria petiolata (M. Bieb.) Cavara and Grande *Garlic Mustard*

hp 4

Sisymbrium alliaria Scop.

Arabis petiolata M. Bieb.

Hedge-banks and waysides on nutrient rich soils, copses, river-banks, roadside verges, ditch banks and waste places. This plant is an aggressive alien invader in the deciduous woodlands of the north-east United States; it has been the target of repeated, failed attempts at biocontrol. Locally frequent in towns and villages, but behaving more like an alien than a native in vc. 107. Certainly not the common woodland plant that it is in southern Britain.

ND01 NH78 NH79

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Mill Way Brora	NC904040	waste ground	08/05/2011
Kildonan Farm	NC910209	farm	11/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Dornoch Caravan Site	NH802890	waste ground	20/05/2012
Brora Industrial Estate	NC905041	waste ground	07/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
North Street Dornoch	NH797897	roof gutters	05/07/2013
Hilton of Embo	NH805915	hamlet	08/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
NW Spinningdale	NH674899	hamlet	08/05/2015
Achnaluachrach	NC679098	hamlet	13/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

NVC: OV 10, 26

Teesdalia nudicaulis (L.) W.T. Aiton *Shepherd's Cress*
Iberis nudicaulis L.

th 4



Teesdalia nudicaulis Peter Llewellyn

Bare spots and dry sandy banks on heaths, wall tops, and open patches on sand or gravel, on grass heaths and disused railways, in ground disturbed by rabbits or natural erosion. Found with *Ornithopus perpusillus*, *Aira caryophyllea*, etc. Often overlooked in flower in spring, it is more conspicuous in fruit. Declines under scrub encroachment and cessation of grazing. Rare in sandy places.

Tressady	NC700041	15/07/1951	M. McC. Webster
Cuthill Links	NH748876	15/07/1960	John Anthony

NC60 NC70 NC71 NH78 NH88

Carnegie Golf Course	NH731871	sandy waste	10/07/2010
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Behind the workshops	NH732872	waste ground	10/05/2011
Skibo Golf Sheds	NH732872	waste ground	16/05/2012
Carnegie Golf Course	NH732872	works gate	08/05/2013
Skibo Castle Golf Sheds	NH729870	waste ground	12/05/2015

NVC: U 1

Thlaspi arvense L. *Field Penny-cress*

o th 5

Cultivated and disturbed waste ground. Uncommon and sporadic in the lowlands.

NC70 NC80 NC81 NC90 ND01 NH69 NH78 NH79 NH88 NH89

Camore Wood	NH771894	gravel pit	11/07/2010
Drumliah	NH608931	ruined croft	09/07/2011
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Achinchanter Dornoch	NH800903	disturbed ground	21/06/2015
Campbell Street Dornoch	NH791895	new housing	11/06/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015

NVC: OV 7,13,18

[**Microthlaspi perfoliatum** (L.) F.K. Meyer *Perfoliate Penny-cress*]
Thlaspi perfoliatum L.

th 4

A British native *Red Data Book* species of bare stony ground on calcareous substrates like limestone quarries and railway banks, Told from *T. arvense* by its smaller fruits (< 10mm) with their narrower wings (< 1mm at the midpoint) and from *T. alliaceum* by the lack of garlic smell when crushed. Grows with *Erophila verna* and, like it, requires constant disturbance to persist in the face of competition from perennial plants. It increased dramatically in its native sites in Gloucestershire and Oxfordshire following the great drought of 1995 (Wiggington, 1999).

Recorded from the Moray coast.

Hesperis matronalis L. *Dame's-violet*

• h 5

A common cottage garden plant, occasionally long-established as an escape. River-sides, road-sides, ditches, woods and waste ground, rare and sporadic. Increased, but possibly not much recorded before 1970. Occasional in damp shady places and ditch-banks in the lowlands.

NC50 NC60 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Clashmore	NH747895	village	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Camore	NH778903	council houses	12/07/2010
Mill Way Brora	NC904040	waste ground	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Rhinamain	NH610938	hamlet	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
Balloan road end	NC597061	roadside	22/06/2011
Drummuie	NH820996	roadside	23/06/2011

E of Skelbo	NH800948	hamlet	23/06/2011
Embo village dunes	NH817929	sand dunes	23/06/2011
Embo	NH817928	village	23/06/2011
Rogart Station	NC724019	railway	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Knockdhu	NC599593	roadside	02/07/2013
Glashbuie North Brora	NC903536	derelict building	05/07/2013
Duke Street Golspie	NC839245	suburbia	06/07/2013
Rosehall	NC470222	village	09/07/2013
Sleastary	NH643963	croft	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Kinbrace Station Cottage	NC862316	garden	12/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Dalchalm	NC911059	hamlet	19/06/2015
Culmally House Golspie	NH806991	roadside	21/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
Embo Dunes	NH817929	dune backs	11/06/2015
A4 at Dummuic	NH819996	roadside	12/06/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Helmsdale Station	ND023155	railway	17/06/2015
sea cliffs N of Helmsdale	ND035153	soft sea cliff	17/06/2015
Harbour Road Helmsdale	ND026154	village	17/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
School Road Helmsdale	ND027155	village	14/06/2015

[**Matthiola incana** (L.) W.T. Aiton *Hoary Stock*] h 5

Recorded from Easter Ross on walls and banks.

Matthiola longipetala (Vent.) DC subsp. **bicornis** *Night-scented Stock* ● th 5

Told from the other *Matthiola* spp. by its cylindrical (not compressed) fruits. A common garden plant, but seldom found as an escape.

Cavaig North Brora	NC894041	hamlet	10/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012

Also recorded from Easternness and the Moray coast.

[**Malcolmia maritima** (L.) W.T. Aiton *Virginia Stock*] ● th 5

Wilckia maritima R. Br.
Cheiranthus maritimus L.

A rare alien outcast of gardens, uncommon on waste ground.

Recorded from the Moray coast.

Cochlearia pyrenaica subsp. **alpina** (Bab.) Dalby *Pyrenean Scurvygrass* h 5

Cochlearia alpina (Bab.) H.C. Watson
Cochlearia officinalis subsp. *alpina* (Bab.) Hook. f.

Rock ledges in the western mountains. Told from *C. officinalis* by its smaller flowers (5-8 mm across, rather than 8-15 mm), and by the upper stem leaves which do not distinctly clasp the stem at the base (they are non-clasping or only slightly clasping). The leaves are succulent and the fruit is rounded at the base. Very local and rare. Ben More Assynt.

Cochlearia officinalis* subsp. *officinalis L. *Common Scurvygrass*

h 5

Sea side, salt marsh, etc.. Frequent by the coast. Uncommon by salted roads inland

NC31 NC32 NC80 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Ord of Caithness	ND057179	roadside	11/07/2010
Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Kyleside Walk Bonar Bridge	NH610913	tidal riverbank	12/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
Brora Harbour	NC909037	village	12/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Carnegie Golf Course W	NH726871	links	10/05/2011
Carnegie Golf Course W	NH727873	salt marsh	10/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Dornoch Common Good	NH794882	salt marsh	09/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Balblair saltmarsh Loch Fleet	NH804973	salt marsh	08/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Dornoch Common Good	NH800878	salt marsh	19/06/2011
Loch Fleet	NH780960	salt marsh	23/06/2011
Coul Links	NH808952	beach	23/06/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Brora S beach	NC909034	shingle beach	09/09/2012
Dornoch Stream Saltmarsh	NH806888	salt marsh	20/05/2012
Dornoch Stream	NH803889	streamside	20/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Newton Point	NH713877	shingle beach	24/06/2014
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Dornoch Common Good	NH800878	salt marsh	11/06/2015
N Loch Fleet	NH800971	salt marsh	12/06/2015
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015
N Loch Fleet	NH800971	shingle beach	12/06/2015
Dornoch Common Good	NH802874	salt marsh	11/06/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Navidale Stream	ND042160	stream	17/06/2015

NVC: SM 13, 15, 17, 18, 21, 25, 28; MC 1, 2, 5, 6, 8-12; OV 41

Cochlearia officinalis subsp. **scotica** (Druce) P.S. Wyse Jacks. *Scottish Scurvygrass* h 5

Rocky, shingle and sandy coasts. Petals often lilac (rather than white). Local and rare.

Helmsdale 15/07/1971 J.J.B. Gill

ND01

[**Cochlearia micacea** E.S.Marshall *Mountain Scurvygrass*] h 5

Recorded from Wester Ross above 600m on micaceous schists. This is a perennial with a woody base, with its fruits acute at both ends and so widest in the middle.

Cochlearia danica L. *Danish Scurvygrass* th 2 ↑

Native on sandy sea shores, and as an adventive on waste ground in towns and villages. Local and uncommon. In the south, around Inverness, this is the most conspicuous member of the 'salt adventive' community, which is made up of seaside plants that have found a niche inland, on the verges of salted roads since the late 1980s. In vc. 107, this roadside niche is taken over almost exclusively by *Plantago maritima*.

S of Golspie NH825990 28/06/1979 M.J. Marshall

Dunrobin Castle NC852005 17/07/1980 M.J. Marshall

NC80 NC82 NC91 NH89

Dornoch Academy NH789899 roadside 10/04/2010

Tirryside Loch Shin NC567106 hamlet 13/05/2011

N Brora NC904051 bungalows 12/05/2011

Loch Fleet NH780960 salt marsh 23/06/2011

Braehead Terrace Portgower ND008134 village 13/07/2011

NVC: SM 21, 25; MC 1, 5, 8, 12; OV 23

[**Cochlearia anglica** L. *English Scurvygrass*] h 6

In wet places on muddy shores.

Recorded from Easter Ross, Easternness and the Moray coast.

[**Cochlearia x hollandica** = **C. anglica** x **C. officinalis**]

Vigorous and fertile. Often more abundant than *C. anglica*.

Recorded from Easter Ross, Easternness and the Moray coast.

Iberis sempervirens L. *Perennial Candytuft* ● h 5

This is the common candytuft of garden rockeries. It has woody stems and evergreen leaves. An occasional garden escape on walls and pavements. The annual garden Candytufts often have non-white flowers (see *I. umbellata*, below).

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Kildonan Lodge	NC904223	parkland	17/05/2012
Dunrobin Castle formal garden	NC851008	parkland	17/05/2012
Rosehall	NC470209	village	06/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Main Street Brora	NC903391	street	07/05/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Pittentrail	NC726019	village	10/05/2015
Kildonan Lodge	NC904222	parkland	17/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Iberis umbellata L. *Garden Candytuft*

• th 7

Casual on rubbish tips and waste ground. A common bedding annual with toothed, linear leaves. Cultivars of the 'Fairy Series' have pink, lilac-purple or red-pink flowers, but whites are the most commonly seen escapes. Told from the rare native annual *I. amara* by its larger fruits (7-10mm rather than 3-6mm).

Murray Place Pittentrail	NC727017	bungalows	10/07/2011
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Academy Street Brora	NC903044	bungalows	13/06/2015

SANTALACEAE

Viscum album L. *Mistletoe*

• p 7

A very rare plant in Scotland. Almost certainly introduced in East Sutherland. Morven Murray had successfully established the plant in her garden two years previously. She told me about the large and

obviously long-established plant in Brora (currently thought to be the most northerly Mistletoe in Britain).

rear of #1 Railway Terrace Brora	NC90584 04069	on apple	10/09/2012
Davoch Rogart	NC72314 01622	on damson	10/09/2012
rear of #1 Railway Terrace Brora	NC90584 04069	back garden	07/05/2013



Who would have thought that behind this unprepossessing facade would lurk Britain's northernmost Mistletoe? This is Railway Terrace in Brora, and the plant is on an apple tree in the back garden of Number 1.



Mistletoe, *Viscum album*, on the trunk of an elderly domestic apple tree in the back garden of Number 1 Railway Terrace Brora, on 10 September 2012. It is not known whether the plant was deliberately introduced or bird sown.

TAMARICACEAE

Tamarix gallica L. *Tamarisk*

• ph 7

A relatively uncommon garden plant in Northern Scotland. Not self-seeding with us.

Biblical Gardens Golspie	NC837001	botanical garden	07/09/2012
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015

PLUMBAGINACEAE

Armeria maritima Willd. *Thrift*
Statice maritima Miller

ch 4

Salt marshes, dunes, coastal pastures, sea cliffs and on mountains, ascending to the highest peaks. Also an occasional garden escape. The three habitats are treated separately below.

NC31 NC32 NC33 NC43 NC70 NC80 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH88
NH89

Maritime

Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Carnegie Golf Course W	NH727873	salt marsh	10/05/2011
Balblair saltmarsh Loch Fleet	NH804973	salt marsh	08/05/2011
Dornoch Common Good	NH800878	salt marsh	19/06/2011
Dornoch Dunes	NH806876	sand dunes	19/06/2011
Loch Fleet	NH780960	salt marsh	23/06/2011
Coul Links	NH810952	sand dunes	23/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Dornoch Links W	NH780880	sand dunes	14/07/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Skibo shore	NH726874	salt marsh	16/05/2012
Dornoch Common Good	NH804881	salt marsh	29/06/2014
Invercassley Stores Rosehall	NC470020	waste ground	28/06/2014
N Loch Fleet	NH800971	salt marsh	12/06/2015
Dornoch Common Good	NH800878	salt marsh	11/06/2015
Dornoch Common Good	NH802874	salt marsh	11/06/2015

Upland

Ben Hee		15/07/1964	D.A. Ratcliffe
Ben More Assynt		15/07/1964	D.A. Ratcliffe
Carn Dearg		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Ben More/Conival ridge	NC307201	12/07/1998	Gordon Rothero
Meallan Liath Mor	NC400320	mountain ridge	13/07/2011
Ben Hee	NC420320	mountain ridge	13/07/2011
Ben Hee	NC424338	mountain ridge	13/07/2011
Ben Hee NE slope	NC420330	upland	29/05/2014

Garden escape

Clashmore	NH747895	village	10/07/2010
East Helmsdale	ND031155	suburbia	11/07/2010
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012

Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

NVC: SM 10, 13-22, 24, 26; SD 3; MC 1-12; OV 41; CG 11, 12, 14; U 9, 10, 13, 14, 17

[**Cerastigma** *C. griffithii*, *C. griffithii* 'Album', *C. plumbaginoides*, *C. willmottianum*, *C. willmottianum* 'Forest Blue']

[**Plumbago** *P. auriculata*]

POLYGONACEAE

Persicaria affinis (D. Don) Ronse Decr. *Himalayan Bistort*
Polygonum affine D. Don

• h 6

This is the popular rockery and wall plant, used as prostrate ground cover, and occasionally self sown on walls or outcast from gardens.

Helmsdale Main Street	ND027153	street	06/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Rosehall Primary School	NC495005	waste ground	12/07/2010
Rhian Breck	NC599048	hamlet	13/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Corrieinloch Hydro	NC398253	hamlet	08/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
High Street Lairg	NC584063	village	02/07/2013
R Helmsdale in Helmsdale	ND026152	riverbank	07/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Fountain Road Golspie	NC831001	suburbia	11/05/2015

Persicaria campanulata (Hook.f.) Ronse Decr. *Lesser Knotweed*
Polygonum campanulatum J.D. Hook.

• h 6

This is one of the forgivable garden knotweeds, told by its branched panicle with big (>2.5mm) pink tepals that are fused at the base for one quarter to half of their length. Naturalizes on damp peaty banks.

Shinness Lodge	NC539141	ditch bank	11/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Stafford Street Helmsdale	ND029154	waste ground	09/09/2012

Portgower	ND010135	hamlet	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Ospisdale	NH712897	hamlet	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013

Also recorded from Easternness and the Moray coast.

Persicaria bistorta (L.) Samp. *Common Bistort*

hs 6

Polygonum bistorta L.

Bistorta major Gray

Damp meadows and pastures, and in patches in damp woodland rides. Most of the plants look as if they are garden escapes or garden relics. Local and rare.

NC70 NH69

Shinness Lodge	NC530150	hamlet	13/05/2011
Brora Harbour	NC909037	village	12/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Rosslyn Street Brora	NC904039	street	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Sleastery	NH643963	croft	09/07/2013
Rosehall	NC470022	village	09/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Harbour Road Helmsdale	ND026154	village	17/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

NVC: S 8

Persicaria amplexicaulis (D. Don) Ronse Decr. *Red Bistort*

• h 6

An occasional herbaceous border plant, but rare as an escape or outcast.

Skibo Castle	NH737890	parkland	11/07/2013
Corriekinloch	NC398253	hamlet	13/05/2015
Clashmore	NH745895	hamlet	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Persicaria vivipara (L.) Ronse Decr. *Alpine Bistort*
 Polygonum viviparum L.
 Bistorta vivipara (L.) Delarbre

hs 6

Grassland and rock ledges in the mountains. Local and uncommon. Much more abundant in north and west Sutherland than with us.

NC30 NC31 NC32 NC33 NC43 NC60 NC70 NC71 NC83 NC84

Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Creag Dhubh	NC800390	mountain ridge	15/07/2011
Ben Griam Mor SW crags	NC801389	crag	15/07/2011

NVC: CG 9-14; U 9, 10, 13-15, 17

Persicaria wallichii Greuter & Burdet *Himalayan Knotweed*
 Persicaria polystachya (Wall ex Meisn.) H. Gross non Opiz
 Polygonum polystachyum Wall ex Meisn.

• h 6

Grassy places and roadsides. An occasional garden escape or outcast.

Skibo Castle S front	NH737890	parkland	11/07/2013
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Also recorded from Easternness and the Moray coast.

Persicaria amphibia (L.) Delarbre *Amphibious Bistort*
 Polygonum amphibium L.

hyd 7

Lochs and ponds, but also a terrestrial plant. The floating leaves are common in lochs, but the terrestrial plant is occasional in damp fields and on stream sides and waste ground. The floating leaves could be mistaken for *Potamogeton natans*.

NC70 NC90 ND01 NH68 NH69 NH78 NH88 NH89

Rhian Breck	NC599048	hamlet	13/05/2011
Lothmore gravel pit	NC970106	pond	12/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Dornoch Lochans Davochfin	NH777889	lochans	04/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Witches Pool Dornoch	NH800892	pond	08/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014

NVC: A 3,8,10-12,15,17,19,20; M 22,27; OV 30,31; S 5,6,10,12-15,19,23

Persicaria maculosa Gray *Redshank*
 Polygonum persicaria L.
 Persicaria maculata (Raf.) Fourr., non Gray

th 6

Cultivated ground, wet places, ditches, marshes, waste places, found occasionally in all the lowland districts. Local and uncommon in vc. 107.

NC30 NC40 NC50 NC51 NC60 NC70 NC74 NC80 NC82 NC84 NC90 NC91 ND01 NH59 NH68
NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Burnside	NH609926	lane	09/07/2011
Rogart Station	NC724019	railway	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
W of Mound Rock	NH767993	poached ground	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Academy Street Brora	NC900044	bungalows	09/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Clashmore	NH745895	hamlet	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

NVC: OV 4,8,9,10,12,13,14,19,21,22; S 12,14,15,19,23

Persicaria lapathifolia (L.) Delarbre *Pale Persicaria*

th 6

Polygonum lapathifolium L.

Polygonum nodosum Pers.

A weed in cultivated ground, damp waste places, manure-heaps, and disturbed ground. Told critically from *P. maculosa* by the shape of the fruits; they are biconcave or planoconcave in *P. lapathifolia* (biconvex in *P. maculosa*). The pale yellow flower is not a reliable diagnostic character, but the sessile yellow glands give the upper stem a distinctive feel. Very local, and much less common than *P. maculosa*.

Dornoch Point NH800890 12/07/1983 M. & C. Kitchen

NH79 NH88

Rear of Deans Park Dornoch NH792895 waste ground 18/06/2011

NVC: OV 4,7,13,21,26,29,31-33

Persicaria hydropiper (L.) Delarbre *Water-pepper*

th 7

Polygonum hydropiper L.

Wet places, ditches, stream-sides, damp hollows, and ruts in woods. Local and rare.

NH69 NH78 NH79

Overskibo Curling Pond	NH727902	pond	14/05/2011
Auchintoul	NH518992	riverbank	12/07/2011

NVC: A 17; M 23,27; MG 10,13; OV 21,28-32,35; S 6,7,10,23

[Fagopyrum esculentum Moench *Buckwheat*]

• th 7

Fagopyrum sagittatum Gilib., nom. inval.

Waste places and open places in woods, especially where game birds are fed. Rarely sown, often casual in arable fields, waste ground and tips. Used as hamster food and bird-seed.

Recorded from Easternness and the Moray coast.

Polygonum arenastrum Boreau *Equal-leaved Knotgrass*

o th 7

Polygonum calcatum Lindman

Polygonum aequale Lindman, nom. illegit.

Polygonum aviculare L. subsp. *aequale* Asch. & Graebner

Paths and disturbed waste ground, and arable fields; frequent, with a preference for compacted sandy soil. This is the small, completely prostrate Knotgrass that has neat, evenly sized leaves resembling the teeth of a double-sided comb. In *P. aviculare* the leaves decline in size to the tip of the shoot, and the plants are often upright.

NC60 NC71 NC81 NC90 NC91 NH78 NH79

Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013

NVC: OV 9,10,18,19,21-23

Polygonum aviculare L. *Knotgrass*

th 7

Polygonum littorale sensu Gren. & Godron et auct., non Link ex Pers.

Polygonum heterophyllum Lindman, nom. illegit.

Polygonum aviculare L. var. *heterophyllum* Munshi and Javeid

Cultivated and waste ground, road-sides, gardens, heaths, about field-paths, etc. Abundant and universally distributed. Often a large, sprawling upright plant with unequal-sized leaves (cf. the prostrate *P. arenastrum*). Very common at the very edge of the kerb on busy roadsides, tolerant of both spray and constant buffeting.

NC30 NC40 NC41 NC50 NC51 NC52 NC60 NC70 NC71 NC73 NC74 NC80 NC81 NC82 NC83
NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Clashmore	NH747895	village	10/07/2010
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Longuish Road Junction	NH644919	waste ground	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Tuitem	NC436013	hamlet	12/07/2010
Linsidmore Wood	NH498998	roadside	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
Strath Fleet	NC623056	roadside	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Opposite Achnagart	NH540980	roadside	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	roadside	12/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
A9 S of Brora	NC901036	roadside	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Embo House	NH803920	arable	04/07/2013
Cyderhall Farm Cuthill	NH764892	arable	04/07/2013
East Lodge Skibo Castle	NH749890	lane	04/07/2013
Carn Liath	NC867013	lane	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Academy Street Brora	NC902044	dry banks	07/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Clashmore	NH745895	hamlet	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

NVC: OV 3,4,7-10,12-16,18-21,28,29,31,33; S 7,15,23

[**Polygonum rurivagum** Jord. ex Boreau *Cornfield Knotgrass*]
Polygonum aviculare L. subsp. *rurivagum* (Jordan ex Boreau) Berher

o th 7 ↓

Arable fields and disturbed road verges. Flowering later than most *Polygonum* spp. (late July or August), and continuing to flower through November. Much confused with *P. aviculare* from which it is distinguished by leaves less than 4mm wide (more than 5mm in *aviculare*) and by tepals gaping near the apex to reveal the achene.

Polygonum boreale (Lange) Small *Northern Knotgrass*

th 7

Very local and rare by the coast. Told from *P. aviculare* by its petioles, which are well exerted from the stipules (not more or less included within the stipules).

Golspie 15/07/1962 M. McC. Webster det. B.T. Styles

NH89

Dornoch Common Good NH806873 sandy beach 30/06/2013

[**Polygonum patulum** M. Bieb. *Red-knotgrass*] • th 7

A grain and wool alien on tips and waste places. Told from *P. arenarium* by its large (3mm) shiny achene (not small (2mm) and dull) and the tepals erect and green to the apex along the midrib.

Recorded from the Moray coast.

[**Polygonum arenarium** Waldst. & Kit. *Lesser Red-knotgrass*] • th 7
Polygonum arenarium subsp. **pulchellum** (Loisel.) Thell.

Uppermost bracts partly scarious and not exceeding the flowers. Told from *P. patulum* by smaller (2mm) dull achenes, and tepals divergent and completely pink at the apex.

Recorded from Easter Ross.

Fallopia japonica (Houtt.) Ronse Decr. *Japanese Knotweed* • h 7 ↑
 Reynoutria japonica Houtt.
 Polygonum cuspidatum Siebold and Zucc.
 Polygonum compactum J.D. Hook.

One of the most serious problem plants in Britain (see also *Rhododendron ponticum*), but it is no more than occasional in vc. 107, on waste ground, roadsides, railway land and waste ground in towns, forming more or less extensive jungle-like thickets to the complete exclusion of all other vegetation.

The plant was originally introduced as a garden ornament, and was hugely popular in Victorian times “outside in the pleasure ground or plantation, or by the waterside where there is enough soil, they may be very handsome indeed” (Robinson, 1870). No one has planted it on purpose since its invasiveness was recognised. It is a great mercy that the plant does not set seed in Britain, otherwise its spread might have been even more rapid and more extensive. British plants are almost all octoploid females and there are no males at all, so what little seed you find, tends to be of hybrid origin. Recent genetic studies indicate that all the tested clones are identical, which means that the entire British population might consist of a single genetic individual, propagated vegetatively.

All of the individuals you see have been moved to where they grow by people, usually unintentionally. Fragments of rootstock are moved about on diggers and other construction equipment, while cut-up sections of stem, washed down stream after misguided attempts at weed clearance, can root in damp places. It is targeted for weed control by a number of local councils, but their eradication attempts are neither sufficiently concerted nor sufficiently exhaustive to be effective. The plant has recently (2010) been the target of biological control attempts, and research is currently underway at CAB International (Egham) to look for other biocontrol agents (both pathogens and insects) in Japan.

West Helmsdale ND010150 20/07/1980 J.K. Butler

NC40 NC50 NC80 NC91 ND01 NH68 NH79

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Station	NC582038	railway	10/04/2010
Rear of Invershin Hotel	NH580953	waste ground	12/07/2010
Big Burn Golspie	NC840009	woodland	07/05/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Golspie Inn Golspie	NC839004	waste ground	07/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012
Lairg Station	NC583039	railway	06/09/2012
Big Burn Bridge Golspie	NC840005	stonework	17/05/2012
Golspie Inn Golspie	NC839004	roadside	17/05/2012
Dalchalm	NC911059	hamlet	19/06/2015
Road br. Golspie Big Burn	NC840005	woodland	10/05/2015

Fallopia x bohémica (Chrtek & Chrtková) J.P. Bailey = **Fallopia japonica** x **F. sachalinensis**

Intermediate in leaf size (between 13 and 20 cm long, excluding the petiole) and leaf shape (not truncate). Very uncommon, but possibly under-recorded.

Academy Street Brora NC901043 cottages 13/07/2011

Fallopia sachalinensis (F. Schmidt ex Maxim.) Ronse Decr. *Giant Knotweed* • h 7
Polygonum sachalinense F. Schmidt ex Maxim.
Reynoutria sachalinensis (F. Schmidt ex Maxim.) Nakai
Reynoutria vivax J. Schmitz and Strank

A statuesque plant of parkland, roadsides and waste ground, much less common than *F. japonica* and not naturalised to the extent that it is in north-west Britain, occurring as scattered clumps rather than extensive, dense thickets. The leaves have heart-shaped (cordate not truncate) bases, and are up to 40cm long (not less than 15cm).

Gordonbush Lodge Glen Brora NC844096 parkland 10/09/2012

Fallopia baldschuanica (Regel) Holub *Russian-vine* • m 8
Polygonum baldschuanicum Regel
Polygonum aubertii L. Henry
Bilderdykia aubertii (L. Henry) Mold.
Reynoutria baldschuanica (Regel) Mold.
Reynoutria aubertii (L. Henry) Mold.
Bilderdykia baldschuanica (Regel) D. Webb
Fallopia aubertii (L. Henry) Holub

Hedges, railways, waste ground near gardens and rubbish tips. It is always planted, even in relatively remote kinds of places, being much used as “Mile-a-minute-vine” to bury unsightly buildings, storage

tanks or boundary fences. Produces foaming white masses of flowers in early autumn, especially on fences adjacent to roads and railway lines.

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Brora	NC910041	suburbia	11/07/2010
Dunrobin Castle	NC851008	parkland	11/07/2010
N Helmsdale	ND026156	village	08/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle walled garden	NH737891	garden wall	10/05/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Front Street Embo	NH817927	village	18/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Dunrobin Castle stone walls	NC850789	stonework	06/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Hilton of Embo	NH807915	hamlet	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Lindsay Street Golspie	NH830998	council houses	14/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Fallopia convolvulus (L.) Á. Love *Black-bindweed*

o th 7

Polygonum convolvulus L.

Bilderdykia convolvulus (L.) Dumort.

Reynoutria convolvulus (L.) Shinn.

Weed of cornfields, garden ground, hedge-banks, etc. Generally distributed over the cultivated portion of the county. Frequent except on the very acid soils. Climbs in a clockwise spiral.

Ferry Croft Lairg 15/08/1976 J.E. Kirby

NC50 NC70 NC80 NC90 NC92 ND01 NH69 NH78 NH79 NH89

Brora Harbour NC909037 village 12/05/2011

Skibo Castle walled garden NH737891 gardens 10/05/2011

Linsidemore Wood NH534991 roadside 12/07/2011

NVC: OV 1,3,4,7-10,12,14,15,16,18,19,24,33; S 23; U 1

Rheum x hybridum Murray *Rhubarb*

• hs 5

Rheum x rhabarbarum auct., non L.
 Rheum x rhaponticum auct., non L.
 Rheum x cultorum Thorsrud and Reis., nom. nud.

Frequent on old allotments and occasional as an outcast on roadsides and in ditches.

NC40 NC91 ND01 NH89

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Brora Harbour	NC909037	village	12/05/2011
N Portgower	ND013137	roadside	08/05/2011
Spinningdale	NH674899	meadow	07/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
S Embo links	NH815920	links	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Golspie	NH832998	sea front	08/05/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Birch Cottage Rogart	NC734029	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Crackaig Crofts Lothmore	NC964111	ruins	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Embo	NH817928	village	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Navidale	ND034168	hamlet	01/07/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015

Lairg	NC581068	council houses	10/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Embo	NH816928	village	08/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Marrel	ND016173	hamlet	14/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Clashmore	NH745895	hamlet	17/05/2015
West Langwell	NC698088	hamlet	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Borrobol Lodge	NC871264	cultivated ground	17/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Merkland Lodge	NC400297	hamlet	13/05/2015
Navidale	ND037161	hamlet	14/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015

Rumex acetosella L. *Sheep's Sorrel*

hs 5

Acid grasslands, dry fields, heaths, parks, waysides, locally abundant on nutrient-poor, sandy or gravelly soils.

NVC: H 2; OV 1,4,9,20; U 1,2,4,20; W 16,23

The distributions of the two subspecies have not been worked out in vc. 107, but subspecies *pyrenaicus* is clearly rare if it is present at all. You need to rub the ripe fruits in the palm of your hand. If the tepals come off, the plant is subspecies *acetosella*. If the tepals are tightly stuck to the achene, so that they do not rub off, the plant is subspecies *pyrenaicus*. The amount of synonymy indicates the extent of confusion that has existed in the past.

Rumex acetosella subsp. **acetosella**

hs 5

Rumex acetosella L. var. *tenuifolius* Wallr.

Rumex tenuifolius (Wallr.) Á. Love

Rumex acetosella L. subsp. *tenuifolius* (Wallr.) O. Schwarz

Acetosella multifida (L.) Á. Love

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

[Rumex acetosella subsp. **pyrenaicus** (Pourr.) Akeroyd]

hs 5

Rumex pyrenaicus Pourret

Rumex angiocarpus auct., non Murb.

Rumex acetosella L. subsp. *angiocarpus* auct., non (Murb.) Murb.

Acetosella vulgaris (Koch) Fourr. subsp. *pyrenaica* (Pourret) Á. Love

[**Rumex scutatus** L.]

• hs 6

Rumex acetosa L.

hs 5

Rumex acetosa subsp. **acetosa** *Common Sorrel*

Pastures, meadows, wet grasslands and woods. Very frequent and generally distributed in an extraordinary range of habitats.

NVC: CG 6, 7, 10-12; M 4-6, 12, 22-28, 32, 33, 37; H 7, 18; MG 1-11; OV 10, 19, 26, 41; S 1, 3, 11, 15; U 1, 2, 4, 7, 10, 13-20; W 1, 4, 10, 22, 23, 25; SD 8, 9, 12, 17; MC 3, 4, 8-12

[**Rumex acetosella** subsp. **acetosella** var. **tenuifolius**]

Recorded from Easternness and the Moray coast.

Rumex acetosa subsp. **ambiguus** (Gren.) Á. Love *Garden Sorrel*

• hs 5

Rumex ambiguus Gren.

Rumex rugosus Campder

An uncommon garden plant, grown for enlivening salads. Long persistent in grass on old allotments.

Rumex pseudoalpinus Höfft *Monk's Rhubarb*

• hp 7

A rare relic of former cultivation, typically found near ancient buildings. Very local and rare.

West Garty Portgower NC996130 03/08/1999 BSBI

NC91

Rumex longifolius DC. *Northern Dock*

hp 7

Damp ground, often by water. Occasional in the lowlands.

Ben More Forrest NC330120 15/07/1969 U.K. Duncan

NC31 NC70 NC73 NC83 NC90 NC91 NC92 ND01 NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Ord of Caithness	ND057179	roadside	11/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
R Brora in Brora	NC901039	riverbank	08/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Burnside	NH608926	ditch	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011

R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
Kirkton railway crossing	NH798985	railway	10/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
Glashbuie North Brora	NC903053	derelict building	05/07/2013
Dunrobin Beach Walk	NC842002	coastal grassland	06/07/2013
Portgower	ND010134	roadside	07/07/2013
A9 underpass at Ord	ND048173	roadside	07/07/2013
Helmsdale	ND033153	seaside grass	07/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Grudie Burn	NC552034	stream bank	24/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014

NVC: MG 3

[**Rumex x propinquus** Aresch. = **R. crispus x longifolius**]

Recorded from Easternness and the Moray coast.

Rumex x hybridus Kindb. = **R. longifolius x obtusifolius**

Rumex x arnottii Druce

Frequent wherever the parents meet. Under-recorded.

Helmsdale ND031154 07/08/1999 BSBI

ND01

Rumex hydrolapathum Huds. *Water Dock*

hel 7

Sides of rivers, streams, canals and ditches on nutrient rich mud.

R Oykel opposite Inveroykel NC467011 riverbank 12/07/2011

Also recorded from Easternness and the Moray coast.

NVC: OV 26,32; S 3,-6,12,13,15,18,26; W 5

Rumex crispus L. *Curled Dock*

hs 6

Rumex crispus subsp. **crispus**

Cultivated ground, wet and dry grasslands, pastures, road-sides, waste ground, railways, river-sides. Abundant and generally distributed in a very wide range of disturbed habitats. Host plant of the metallic green beetle *Gastrophysa viridula*.

The Mound sea wall	NH776982	sea wall	11/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Brora S beach	NC909034	shingle beach	09/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
sea front Golspie	NH832998	shingle beach	07/09/2012
Dornoch Dunes N	NH805893	sand dune	20/05/2012
Dornoch Stream Saltmarsh	NH806888	salt marsh	20/05/2012
Dornoch Stream	NH803889	streamside	20/05/2012
Littleferry	NH806956	hamlet	07/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Common Good	NH806873	sandy beach	30/06/2013
Coul Links	NH805953	shingle beach	04/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Dunrobin Beach Walk	NC842002	coastal grassland	06/07/2013
Dunrobin Beach Walk	NC842002	shingle beach	06/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
Newton Point	NH711876	shingle beach	11/07/2013
Newton Point	NH713877	shingle beach	24/06/2014
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
N Loch Fleet	NH800971	shingle beach	12/06/2015

Rumex x pratensis Mert. & W.D.J. Koch = **R. crispus x R. obtusifolius**

Rumex x acutus auct., non L.

One of the commonest hybrids in the genus, told by its intermediate leaves and low fertility. Likely to be found wherever the parents grow together.

Academy Street Brora	NC903044	bungalows	13/06/2015
Marrel	ND018162	roadside	14/06/2015

[Rumex conglomeratus Murray *Clustered Dock*]

hs 5

Ditches, sides of streams, damp waste ground, disturbed grassland, roadsides, etc. All 3 tepals bear a well-developed oblong tubercle (whereas there is only 1 well developed tubercle in the otherwise similar *R. sanguineus*).

Recorded from Easternness and the Moray coast.

NVC: M 22; MG 7,9,10,13; OV 24,26

Rumex sanguineus L. *Blood-veined Dock*

hs 6

Rumex condylodes M. Bieb.

Damp oak and alder woods, swamps, hedges, roadsides and waste ground. Very local and rare.

Helmsdale Station ND023154 railway 05/05/2013

Also recorded from Easternness and the Moray coast.

NVC: M 22,27; MG 9; OV 26,27; W 1,5,6,8,10,12,21,24

[**Rumex x dufftii** Hauskkn. = **R. sanguineus x R. obtusifolius**]

Recorded from Easternness and the Moray coast.

Rumex obtusifolius L. *Broad-leaved Dock* hs 6

Horse pastures, disturbed grassland, waysides, waste places, water meadows, orchards, etc. Very common and widely distributed. Highly unpalatable to horses, and a conspicuous increaser under horse grazing. Its abundance in an otherwise close-cropped pasture is a sure sign of overgrazing by horses.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69
NH78 NH79 NH88 NH89

NVC: MG 1,6,7,9,10; OV 9,10,13,14,18-23,26,27,29,31-33; S 5,23; W 6

Oxyria digyna (L.) Hill *Mountain Sorrel* hs 6

Damp rocky places on mountains. Locally frequent in the west but absent from the lowlands.

Ben More Assynt			15/07/1962	D.A. Ratcliffe
Creag na h'Uidhe			15/07/1973	A.G. Kenneth
Meallan a Chuail			15/07/1973	A.G. Kenneth
Ben Griam Mor	NC790390		15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441		15/07/1977	Derek Ratcliffe
Allt a' Chnoic Ghlais	NC380181	ravine	10/07/1998	Gordon Rothero
Gorm Loch Mor	NC701238	crag	18/07/1999	Gordon Rothero
Allt Belthe	NC382355		27/07/2010	Rich, McVeigh & Jannink

NC31 NC32 NC33 NC43 NC52 NC62 NC72 NC83

Coire Gorm	NC360280	crag	13/07/2011
Doire Dubh	NC360320	crag	13/07/2011
Ben Griam Mor SW crags	NC800380	crag	15/07/2011
Doire Dubh	NC365327	dripping cliff	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Glen Cassley Hydro	NC369201	dripping cliff	03/07/2013
Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013
Dubh Choille Glen Cassley	NC379180	rocky stream	16/05/2015

DROSERACEAE

Drosera rotundifolia L. *Round-leaved Sundew*

hr 6

Bogs and wet heathy ground on acid peats. Widespread and abundant in all the wet heaths.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: M 1-10, 13-21, 24, 25; H 9

Drosera x obovata Mert. & W.D. Kock = **D. rotundifolia x D. anglica**

Has a straight, centrally arising flower stalk and is sterile.

NC30 NC31 NC71

Drosera anglica Huds. *Great Sundew*

hr 6

Drosera longifolia L.

In wet heath and cotton grass bogs, in somewhat wetter places than *D. rotundifolia*. Also on the stony margins of lochs and lochans. Common and widespread, often on *Sphagnum*. Often locally abundant with us.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC91 NC92 NC93 ND01 NH59
NH69 NH78 NH79 NH89

Spinningdale Bog SSSI	NH667907	valley fen	10/07/2010
Knock Craggie	NC329056	wet heath	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Glen Cassley Langwell Hill	NC409120	wet heath	10/05/2011
Loch Gaineamhach	NC515258	wet heath	11/05/2011
Rimsdale	NC737399	wet heath	11/05/2011
Rimsdale Hill	NC760393	wet heath	11/05/2011
Clynelish Moss Glen Brora	NC875047	cotton grass bog	08/05/2011
Meall a Bheallaich (196m)	NC883404	wet heath	11/05/2011
Maikle Wood Viewpoint	NH605948	dry heath	18/06/2011
Achentoul Forest	NC881384	wet heath	19/06/2011
Achentoul Burn	NC891326	wet heath	19/06/2011
An Dubh-lon	NC695324	blanket bog	20/06/2011
Loch Choire road	NC709305	wet heath	20/06/2011
An Chrom-allt	NC718310	roadstone quarry	20/06/2011
Lochan Dubh	NC725322	blanket bog	20/06/2011
Gernsary croft	NC730323	dry stone wall	20/06/2011
Fhearna Boathouse	NC746331	lake shore	20/06/2011
Lonesome birch	NC757331	wet heath	20/06/2011

Meall an t-Socaich	NC766334	wet heath	20/06/2011
Above the pony track	NC790389	wet heath	21/06/2011
Ben Griam Mor NW-slope	NC797393	wet heath	21/06/2011
Garbh-allt	NC791401	wet heath	21/06/2011
Allt na Craige Duibbe	NC785403	wet heath	21/06/2011
Biod Eag	NC782403	wet heath	21/06/2011
Biod Eag	NC777400	wet heath	21/06/2011
Garvault Hotel	NC779394	wet heath	21/06/2011
Palm Loch	NC708411	loch side	21/06/2011
Creag nan Laogh watershed	NC705413	wet heath	21/06/2011
Green Loch	NC719399	wet heath	22/06/2011
N of Green Loch	NC720400	lochan	22/06/2011
Beinn Rosail watershed	NC701404	wet heath	22/06/2011
Mound Rock	NH770980	composite	11/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Cathair Thurnaig	NC390008	lochan	12/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Sgialach Coire	NC370290	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC850400	wet heath	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Ben Griam Beg E side	NC860400	wet heath	15/07/2011
Ben Griam Beg E side	NC870400	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Allt an Laoigh Loch Shin	NC484198	wet heath	08/09/2012
Merkland Lodge	NC401294	hamlet	08/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Allt Car Beag Loch Shin	NC480162	wet heath	02/07/2013
Allt Bad a'Ghordanaich	NC495151	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC513130	wet heath	02/07/2013
Allt a'Bhann Loch Shin	NC515127	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC520121	wet heath	02/07/2013
The Airde Loch Shin	NC525142	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC526118	wet heath	02/07/2013

Cnoc a'Choire Leacach	NC531116	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC539108	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC543104	wet heath	02/07/2013
N of Sallachy	NC544959	wet heath	02/07/2013
Allt Salachaidh Sallachy	NC547891	wet heath	02/07/2013
Lochan nan Smugaidean	NC366224	blanket bog	03/07/2013
Glen Cassley Hydro	NC369201	dry heath	03/07/2013
Braegrudie Strath Brora	NC717105	riverbank	07/07/2013
Coill' an Tosgaire Oykel	NC340515	wet heath	09/07/2013
Caplich Estate Gate	NC359201	forest road	09/07/2013
Creag Dhubh	NC705174	wet heath	10/07/2013
Creag Dhubh	NC713172	wet heath	10/07/2013
Cnoc na Feannaig	NC717195	wet heath	10/07/2013
Ben Armine Lodge	NC720181	wet heath	10/07/2013
Creagandamph	NC736164	wet heath	10/07/2013
Pollie	NC758159	croft	10/07/2013
Meall nan Aighean Armine	NC693307	wet heath	12/07/2013
etc.			

NVC: M 1, 2, 10, 15, 17, 18

Drosera intermedia Hayne *Oblong-leaved Sundew*
Drosera longifolia auct., non L.

hr 6

Bogs and wet heathy places. Occasional, with a more western distribution than *D. rotundifolia*. Ripe seeds are required for identification. Probably over-recorded in the past. All of these old records are suspect. No confirmed records since 2000.

NC40 NC41 NC42 NC43 NC51 NC52 NC60 NC74 NC83 NC92 ND01 NH69 NH79

NVC: M 1, 2, 14, 16, 21, 29

CARYOPHYLLACEAE

Arenaria serpyllifolia L.

th 4

Both subspecies *serpyllifolia* and *leptoclados* are recorded throughout our area. They are distinguished by their size (*serpyllifolia* is robust with a dense inflorescence, while *leptoclados* is slender with a diffuse inflorescence at fruiting time), by their seeds (> 0.5mm and < 0.5mm respectively) and by their capsules (> 3mm long or < 3mm, respectively).

Arenaria serpyllifolia subsp. *serpyllifolia* *Thyme-leaved Sandwort*
Arenaria lloydii Jordan

th 4

Dunes, dry arable fields, sandy heaths, bare places on waste ground, walls and cinder tracks, occasional. Occasional.

NC30 NC50 NC60 NC70 NC80 NC82 NC83 NC90 NC91 NC92 ND01 NH59 NH78 NH79 NH89

Beinn Domhnaill	NH696959	forest road	13/07/2010
Coul Links	NH804950	dune heath	23/06/2011

Embo sand dunes	NH815940	sand dunes	23/06/2011
Brora Golf Course	NC912041	sand dunes	23/06/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Oykel Bridge v.c. 107 bank	NC385009	riverbank	12/05/2015
Little Ferry	NH805956	hamlet	14/05/2015

NVC: OV 3,20,39,41,42

Arenaria serpyllifolia subsp. **leptoclados** (Rchb.) Nyman *Slender Sandwort* th 4
Arenaria leptoclados (Reichb.) Guss. subsp. *viscidula* (Rouy and Fouc.) Holub

Wall tops, railway ballast and other hard substrates, and on bare sand in sunny locations. Uncommon on walls in towns and villages.

NC92 NH59 NH78 NH89

Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Anderson Court Dornoch	NH791895	waste ground	29/06/2014

NVC: OV 3,16

Arenaria norvegica subsp. **norvegica** Gunnerus *Arctic Sandwort* chh 6

River shingle and rocks in the hills. Very local and rare.

NC31

Bealach Traligill	NC302190	11/07/98	Rothero, Mr G.P., Evans, Mrs P.A.
Bealach Traligill	NC302190	30/08/98	Evans, Mr I.M., Evans, Mrs P.A., Rothero, Mr G.P.

Arenaria balearica L. *Mossy Sandwort* ● chh 6

A naturalised garden plant found in damp places on paths and walls. Known from *A. serpyllifolia* by its procumbent habit and its petals longer than sepals.

Cambusmore 15/07/1962 BSBI

NH79

Moehringia trinervia (L.) Clairv. *Three-nerved Sandwort* th 5
Arenaria trinervia L.

Dry woods and shady hedgerows, thickets, etc. Local and uncommon, typically close to grand houses, suggesting introduction with other woodland plants. First recorded from Rogart and Cambusmore.

Rogart John Anthony
 Cambusmore John Anthony

NC50 NC60 NC70 NC71 NC80 NC83 NH68 NH79

Saw Mill Golspie	NC841012	woodland	09/05/2011
Carnegie Woodland	NH732892	parkland	09/05/2011
Mound Rock	NH770980	woodland	11/07/2011
Ospisdale House	NH713897	parkland	11/07/2013

NVC: W 8,14,21,22

Honckenya peploides (L.) Ehrh. *Sea Sandwort*

chh 6

Dunes, compacted sand, salt marsh and shingle. Frequent on the coast.

NC80 NC90 NC91 ND01 NH68 NH78 NH79 NH88 NH89

Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Brora Golf Course	NC915058	links	12/05/2011
Dornoch Common Good	NH794882	salt marsh	09/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
Embo Pier (derelict)	NH820921	sand dunes	09/05/2011
Dornoch Common Good	NH800878	salt marsh	19/06/2011
Dornoch Dunes	NH806876	sand dunes	19/06/2011
Loch Fleet	NH780960	salt marsh	23/06/2011
Coul Links	NH810952	sand dunes	23/06/2011
Brora Links	NC912043	sand dunes	23/06/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Common Good	NH806873	beach	30/06/2013
Dornoch Common Good	NH806881	sand dune	30/06/2013
Navidale Stream	ND042160	beach	17/06/2015
Dornoch Common Good	NH807885	fore dune	11/06/2015
Dornoch Common Good	NH807875	fore dune	11/06/2015

NVC: SD 1-6, 10, 18; OV 20

[Minuartia rubella (Wahlenb.) Hiern *Mountain Sandwort*]

chh 6

Base rich rocks on mountain cliffs in West Sutherland. Ben Hope (1833). Very rare, and not seen for many years.

Minuartia sedoides (L.) Hiern *Cyphel*

chh 6

Cherleria sedoides L.



Minuartia sedoides Carl Farmer

Moss-like cushions on damp rocky ledges and screes in the mountains. Very local in the upland west.

Ben More Assynt		15/07/1964	D.A. Ratcliffe
Ben Hee		15/07/1964	D.A. Ratcliffe
Carn Dearg		15/07/1973	A.G. Kenneth
Bealaich Traligill	NC302190	11/07/1998	Gordon Rothero
Ben More Assynt (vc. 107)	NC312207	12/07/1998	Gordon Rothero
Ben More/Conival ridge	NC307201	12/07/1998	Gordon Rothero

NC31 NC32 NC33 NC43 NC52 NC63 NC83

Meallan Liath Mor	NC417334	mountain ridge	13/07/2011 Hawker, Edwards & McIntosh
Ben Hee	NC424338	mountain ridge	13/07/2011 ditto
Ben Hee	NC422337	mountain ridge	13/07/2011 ditto
Coire Mhadaidh Conival	NC307203	mountain ridge	10/08/2012 Gordon Rothero

NVC: CG 11, 12, 14; U 10, 13, 14

[*Stellaria nemorum* subsp. *nemorum* L. *Wood Stitchwort*]

h 3

Damp woods and shady stream sides.

Recorded from the Moray coast.

Stellaria media (L.) Vill. *Common Chickweed* th 1
 Alsine media L.

Arable land and disturbed ground, on woodland rides, gaps in grassland swards, open heathland, wet grasslands, open swamps, except on very acid soils. Widespread and abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC60 NC61 NC62 NC63 NC70 NC71
 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH49 NH59 NH68 NH69
 NH78 NH79 NH88 NH89

NVC: M 28; MG 7; OV 1,3,4,7-10,13-16,18-24,28,29,33; S 23; U 1; W 6,10,14,21,22

Stellaria pallida (Dumort.) Crép. *Lesser Chickweed* th 3 ↓
 Alsine pallida Dumort.
 Stellaria apetala auct., non Ucria ex Roemer
 Stellaria boraeana Jordan

Bare, sandy disturbed ground near the sea, and on dry stone walls. Told from *S. media* by stamens 1-3 (not 3-8) and sepals < 3mm. Petals are usually absent and the seeds are less than 0.8mm. You need to search for this plant in March or April to stand any chance of being able to identify it.

Brora	15/06/1969	M. McC. Webster
Loch Fleet	15/07/1897	E.S. Marshall

NC70 NC90 NH79 NH89

[Stellaria neglecta Weihe *Greater Chickweed*] h 4
 Stellaria umbrosa auct., non Opiz and Rupr., nom. nud.
 Alsine neglecta (Weihe) Á. Love and D. Löve

Shady hedge-banks on sandy soil, damp wood margins, river banks on sandy soil, in small quantity. Told from *S. media* (which also has hairs in 2 lines down each internode) by the larger sepals (5-6.5mm, not 2.7-5.2mm) and more numerous stamens (8 or more, not 3-5 or rarely up to 8).

Recorded from the Moray coast.

NVC: MG 13

Stellaria holostea L. *Greater Stitchwort* chh 4

Dry oak woods and dry hedge-banks, wood borders, spinneys, copses and roadsides; common and generally distributed. Widespread and common in the lowlands.

NC30 NC31 NC40 NC41 NC50 NC51 NC60 NC62 NC63 NC70 NC71 NC80 NC81 NC82 NC84
 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Glaslochan Links N Brora	NC912060	stream	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010

Tuiteam	NC436013	hamlet	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Achnairn Shinness	NC555128	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Blarich	NC695041	stream	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Rhilochan	NC743071	roadside	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Tower Farm Golspie	NC835011	roadside	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
N Portgower	ND013137	roadside	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Whiteface	NH708893	roadside	07/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
Astle	NH745919	hamlet	10/05/2011
Clashmore Wood	NH757898	pine wood	09/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Proncy Cottage	NH771918	ditch	09/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Oykel Bridge E	NC390000	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Coill a Chnocain	NC446014	oak woodland	19/05/2012

Golspie Tower	NC830010	hamlet	18/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Golspie Burn	NC829020	oak birch woodland	18/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
The Bank Rogart	NC734028	birch wood	18/05/2012
Birch Cottage Rogart	NC734029	hamlet	18/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Balblair	NH602930	woodland	16/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Gruids	NC566039	hamlet	16/05/2012
etc.			

NVC: MG 1; W 8,10,21,24,25

Stellaria graminea L. *Lesser Stitchwort*

h 5

Pastures, dunes, grassy heaths on sandy or gravelly soil. Woodland rides, hedge-banks and grassland on well drained soils.

NC30 NC40 NC41 NC50 NC51 NC60 NC61 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82
NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
Kyle of Sutherland	NH576958	flood meadow	12/07/2010
Maikle Kyle of Sutherland	NH595936	roadside	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Wester Lonemore	NH757878	coastal grassland	11/07/2010
Loch Migdale N shore	NH632916	loch side	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Newton Point	NH711877	coastal grassland	10/07/2010
Carnegie Golf Course	NH733872	gorse scrub	10/07/2010
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Carnegie Golf Course W	NH726871	links	10/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012

Dornoch Firth Road Bridge	NH747863	embankment	30/06/2013
Arscaig Croft	NC509140	ruins	02/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Embo Muir	NH800925	lane	04/07/2013
Coul Links	NH804948	dune slacks	04/07/2013
R Evelix at Cuthill Bridge	NH748878	riverbank	04/07/2013
East Lodge Skibo Castle	NH749890	lane	04/07/2013
former caravan park Hilton	NH807915	grassland	04/07/2013
Carn Liath	NC867013	lane	05/07/2013
Loch Fleet at Balblair Wood	NC804975	edge of salt marsh	07/07/2013
Flood Bay	NH712882	coastal grassland	11/07/2013
Bardnabeinne	NH714904	hamlet	11/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
A389 Braemore Grudie Burn	NC543026	roadside	24/06/2014
Achue turning	NH684894	roadside	24/06/2014
Badintagairst Glen Cassley	NC428101	croft	28/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Balblair	NH799973	hamlet	12/06/2015

NVC: M 23,27; MG 1; U 1; W 21

Stellaria uliginosa Murray *Bog Stitchwort*
Stellaria alsine Grimm, nom. inval.

hel 5

Wet places, especially on peaty soil. Found in moister and shadier places than *S. graminea*. Damp woodland rides, marshes and damp pastures. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC60 NC62 NC63 NC70 NC71
 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68
 NH69 NH78 NH79 NH89

Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Oversegaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Rhivaig Overskibo	NH724895	hamlet	07/05/2011
Overskibo Curling Pond	NH727902	pond	14/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Salmon ladder	NH740980	wet woods	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Auchintoul	NH518992	riverbank	12/07/2011

Oykel Bridge E	NC390000	composite	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
N of Coire Gorm	NC360290	crags	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Creag an Sgamhlainn	NC370328	disturbed ground	08/09/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Achue	NH696912	hamlet	16/05/2012
Glen Sletdale	NC902157	stream bank	01/07/2013
Creag a'Bhodaich Sletdale	NC911149	stream bank	01/07/2013
Carn Garbh Glen Sletdale	NC908136	dry heath	01/07/2013
Creag a'Chrionaich Sletdale	NC924115	dry heath	01/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
etc.			

NVC: M 27; MG 10,13; OV 30; S 7,15,23

Cerastium arvense L. *Field Mouse-ear*

chh 5

Dunes, sandy places, short grassland, dry exposed sunny places, sandy and calcareous fields, banks, heaths, railway banks and roadsides. Occasional near the coast.

NC60 NC70 NC90 NC91 ND01 NH59 NH78 NH79 NH88

Wind Sock Dornoch Airfield	NH800883	sand dunes	09/05/2011
Dornoch Common Good	NH801882	sand dunes	09/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Royal Dornoch Golf Course	NH812915	links	14/05/2011
Dornoch Links E	NH806902	sand dunes	14/07/2011
Dornoch Dunes S	NH801882	sand dunes	14/07/2011
Dornoch Common Good	NH800882	damp grassland	11/06/2015

NVC: U 1; SD 8

[*Cerastium arvense* x *C. tomentosum*]

Recorded from Easternness and the Moray coast.

Cerastium tomentosum L. *Snow-in-summer*

Cerastium columnae Ten.

Cerastium biebersteinii auct., non DC.

• chh 5 ↑

A widespread plant of rockeries and garden walls, often escaping and frequently persisting for long periods as a garden outcast on roadsides, hedge bottoms, waste ground and limestone walls. Rampant, and often thrown out. Capable of persisting for several years, even in competition with grasses (unlike many other rockery plants such as *Aubrietia* or *Alyssum*).

NC50 NC92 ND01 NH68 NH78

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Embo	NH817928	waste ground	11/07/2010
Rosehall	NC470021	village	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Muie	NC669044	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
North Brae Brora	NC906040	terrace	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Astle	NH745919	hamlet	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
E of Skelbo	NH800948	hamlet	23/06/2011

Embo	NH817928	village	23/06/2011
Brora Golf Course	NC910039	club house	23/06/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Sutherland Street Helmsdale	ND028154	old walls	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
East Clyne	NC896062	hamlet	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
etc.			

Cerastium alpinumL. *Alpine Mouse-ear*

chh 5



Cerastium alpinum luirig.altervista.org

Rock outcrops, screes and ledges in the mountains. Local and rare. The leaves have long shaggy hairs. The bracts have scarious margins up to 0.2mm wide.

Ben Griam Beg		15/07/1962	BSBI
Ben More Assynt		15/07/1964	D.A. Ratcliffe
Ben More Assynt E facing		15/07/1977	Derek Ratcliffe
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe
Ben More Assynt summit	NC320201	12/07/1998	Gordon Rothero

NC31 NC32 NC83 NC84 NC90

Cerastium nigrescens (H.C. Watson) Edmondston ex H.C. Watson *Arctic Mouse-ear* chh 5
Cerastium arcticum auct. Non Lange

Rock ledges and outcrops in the mountains. Very local and rare. Told from *C. alpinum* by predominantly short straight hairs (not long shaggy hairs). The bracts have scarious tips but not scarious margins.

Ben More Assynt		15/07/1890	E.S. Marshall
Conival		15/07/1960	D.A. Ratcliffe
Ben More Assynt summit	NC320201	12/07/1998	Gordon Rothero

NC31 NC32 ND01

Cerastium fontanum Baumg. *Common Mouse-ear*

chh 4

Cerastium vulgatum sensu L.(1759), non L.(1755)

Cerastium holosteoides Fries

Grasslands, meadows, river-banks, pastures, waste ground, stone walls, woodland rides, and heaths. Common and generally distributed.

NVC: CG 2-5; M 22,24; MG 1,4-7,9,10; OV 4,6,9,10,12,15,19,21-28,41,42; U 1; W 23,34; SD 1, 5, 7-12, 13, 16, 17; C 2, 5, 8-10

of the 2 subspecies within vc. 107 has not yet been worked out.

Cerastium fontanum subsp. **vulgare** (Hartm.) Greuter and Burdet

Cerastium vulgare Hartman

Cerastium fontanum Baumg. subsp. *triviale* (Spenner) Jalas

A plant of drier places. The lower stem internodes are hairy all round (rather than hairless or with hairs in 2 lines as in subsp. *holosteoides*). This is the common subspecies with us.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

[Cerastium fontanum subsp. **holosteoides** (Fr.) Salman, Ommering and de Voogd]

Cerastium holosteoides Fries

Cerastium fontanum Baumg. var. *holosteoides* (Fries) JalasCerastium holosteoides Fries var. *glabrescens* (G. Meyer) N. HylanderCerastium fontanum Baumg. subsp. *glabrescens* (G. Meyer) Salman, van Ommering and de Voogd

A plant of wet places. The lower stem internodes are hairless or with hairs in 2 lines (rather than hairy all round as in subsp. *vulgare*). A local and uncommon plant.

Recorded from Easternness and the Moray coast.

Cerastium glomeratum Thuill. *Sticky Mouse-ear*

th 4

Cerastium viscosum L.

Dry, open grassland, arable fields, gardens, disturbed ground, walls, waste places, fields, heaths, and grassy places in woods. Common and generally distributed.

NC31 NC33 NC40 NC50 NC51 NC60 NC61 NC62 NC63 NC70 NC71 NC73 NC74 NC80 NC81
NC82 NC83 NC84 NC91 NC92 ND01 NH49 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Helmsdale Harour	ND029151	terrace	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
E of Skelbo	NH800948	hamlet	23/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011
Ballinreach	NC930083	coastal grassland	23/06/2011
Drumliah	NH608931	ruined croft	09/07/2011

Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Kirkton railway crossing	NH798985	railway	10/07/2011
Cattle feeder Strath Fleet	NH767993	poached ground	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Dornoch Coastguard Station	NH802892	open ground	20/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Fiag Lodge green roof	NC454281	bare ground	26/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015
Allt Dail Bhaich	NC901211	rocky stream	20/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Dalchalm	NC909054	gravel	19/06/2015
Pittentrail	NC726019	village	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Golspie	NC832000	village	08/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Coastguard Station Dornoch	NH802892	waste ground	08/05/2015
Lochside Achentoul Lodge	NC872355	hamlet	09/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
S Brora	NC901032	coastal grassland	14/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Balblair Wood	NH803976	conifer plantation	12/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

Ferry Road Golspie	NH825996	bungalows	16/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015
Kildonan Station Cottage	NC901216	disturbed ground	17/06/2015
Borrobol Lodge	NC871264	cultivated ground	17/06/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015

NVC: MG 7; OV 4,22,23

Cerastium diffusum Pers. *Sea Mouse-ear*

th 5

Cerastium tetrandrum Curtis, nom. illegit.

Cerastium atrovirens Bab.

Cerastium subtetrandrum sensu Druce, non (Lange) Murb.

A seas-side plant, told by its completely herbaceous bracts (lacking scarious tips) and 4 (not 5) petals and stamens.

NC60 NC80 NC90 NC91 ND01 NH59 NH79 NH89

Brora Harbour	NC909037	village	12/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golspie Caravan Park	NH821982	links	14/05/2011
Littleferry	NH808957	sand dunes	23/06/2011
Coul Links	NH810952	sand dunes	23/06/2011
Brora Golf Course	NC912041	sand dunes	23/06/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes N	NH805893	sand dunes	20/05/2012
Coastguard Station Dornoch	NH802892	waste ground	08/05/2015

NVC: SD 2, 4, 7, 8, 12, 18, 19; MC 1, 5, 8-10

Cerastium semidecandrum L. *Little Mouse-ear*

th 4

Dry sandy places near the sea, walls, heaths, dry grassland on acid or calcareous soils, dry arable fields and disturbed ground. The key feature relates to the uppermost bracts, the upper third (or more) of which is membranous. The plant has 5 (not 4) stamens, and 10 (not 8) capsule teeth. Local and uncommon.

NC60 NC70 NC80 NC82 NH59 NH89

Littleferry Loch Fleet NNR	NH801958	<i>Cladonia</i> heath	11/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Dornoch Dunes N	NH805893	sand dunes	20/05/2012

NVC: OV 42

[Myosoton aquaticum (L.) Moench *Water Chickweed*]
 Cerastium aquaticum L.
 Stellaria aquatica (L.) Scop.

h 7

Ditches, river-banks, wet places, damp spinneys, etc., often on dredged mud. Locally common in partial shade. Very local and rare.

Recorded from Easternness.

Sagina nodosa (L.) Fenzl *Knotted Pearlwort*
 Spargula nodosa L.

h 7 ↓

Wet sand dunes by the sea. Local and occasional. Told from other *Sagina* spp. by its long petals (2 times as long as the sepals) and by the fact that the leaves at the uppermost whorls are very short (less than one third) compared to the leaves at lower whorls (in the other species, the topmost leaves are more than half the length of the lower leaves).

NC51 NC80 NC90 NH78 NH79 NH88 NH89

The Mound	NH 790960	1977	Derek Ratcliffe	
Golspie Links	NH821979		sand dunes	11/07/2010
Camore Wood	NH771894		gravel pit	11/07/2010
Dornoch Common Good	NH801879		salt marsh	13/07/2010
Dornoch Common Good	NH806879		sand dunes	13/07/2010
Dornoch Links E	NH790880		composite	14/07/2011
Dornoch Point	NH800870		sand dunes	14/07/2011
Dornoch Dunes S	NH800880		sand dunes	14/07/2011

NVC: SD 13, 14, 16

Sagina subulata (Sw.) C. Presl *Heath Pearlwort*
 Spargula subulata Sw.
 Sagina pilifera auct., non (DC.) Fenzl
 Sagina glabra sensu Lousley et auct., non (Willd.) Fenzl

chh 6



Sagina subulata Carl Farmer

Dry sandy and gravelly places. Heaths, gravel paths and bare places. The leaves have long apical points ($> 0.2\text{mm}$). Told from *S. procumbens* by its possession of 5 sepals and usually 10 stamens (*S. procumbens* usually has 4 sepals and 4 stamens). See below for distinction from *S. saginoides*. Occasional.

Rogart	15/07/1957	M. McC. Webster
Knockfin	15/07/1962	M. McC. Webster

NC52 NC63 NC70 NC71 NC73 NC81 NC83 NC84 ND01 NH79

NVC: OV 20, 34

Sagina saginoides (L.) H. Karst. *Alpine Pearlwort*

chh 6



Sagina saginoides Craig Robson

Mats (not compact tussocks) on bare gravelly places and rock ledges in the mountains. The capsules are relatively large (3-4mm not 2.5-3mm) and the leaves are relatively short-pointed (0-0.2mm not more than 0.2mm). Very local and rare.

Ben More Assynt

15/07/1960

D.A. Ratcliffe

NC31

Sagina procumbens L. *Procumbent Pearlwort*

h 5

Moist places, fields, paths, sand dunes, walls, heaths, waste ground, pavements, tarmac, woodland rides, etc. Much the commonest Pearlwort. Common as a lawn-weed in towns.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
 NH68 NH69 NH78 NH79 NH88 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Station	NC582038	railway	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora SW	NC901038	waste ground	11/04/2010
Clashmore	NH747895	village	10/07/2010
Rhivra Spinningdale	NH667907	roadside	10/07/2010
Languish Road Junction	NH644919	waste ground	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Carnegie Golf Course	NH731871	shingle beach	10/07/2010
Ord of Caithness	ND057179	roadside	11/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Lothmore Church	NC971113	churchyard	11/07/2010
Brora	NC910041	suburbia	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Coul Farm	NH803947	roadside	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Maikle Kyle of Sutherland	NH595936	roadside	12/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Old Manse of Creich	NH636892	cemetery	12/07/2010
Camore	NH778903	council houses	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Tulloch	NH613925	ditch	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Skelbo Wood	NH784941	plantation	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Skelbo Wood	NH731943	plantation	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Woodburn	NH525991	marsh	12/07/2011

Auchintoul	NH518992	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Brachead Terrace Portgower	ND008134	village	13/07/2011
Ben Hee	NC420320	mountain	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
etc.			

NVC: OV 20-23; U 1; SD 17, 18; MC 10; SM 16; M 11, 32, 35, 37, 38

Sagina apetala Ard. *Annual Pearlwort*

th 5

S. apetala subsp. *apetala* is distinguished from *S. apetala* subsp. *erecta* by upright sepals with pointed tips appressed to the ripe fruit, and more abundant glandular hairs on the flower stalk. The seeds of subspecies *apetala* are larger (more than 0.33mm) than those of subsp. *erecta* (less than 0.33mm)

Sagina apetala subsp. **apetala**

th 5

Sagina ciliata Fries
Sagina filicaulis Jordan
Sagina reuteri Boiss.

Walls and dry sunny places on heaths, sand or gravel paths. The most glandular hairy plants were formerly named *Sagina filicaulis* Jordan or var. *filicaulis* (Jord.) Corbière.

Cuthill Links	NH740870	26/09/1996	Brian Coppins det. D. McKean
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NC50 NC70 NC82 NC83 NC90 NC91 NC92 ND01 NH89

Golspie Sea Wall	NH827995	sea wall	11/07/2010
Boundary Track	NC885402	forest road	15/07/2011
A9 S of Brora	NC901036	roadside	01/07/2013

NVC: U 1

Sagina apetala subsp. **erecta** F. Herm.

th 5

Sagina apetala auct., non Ard.
Sagina micropetala Rauschert

Walls and dry sunny places, like cinder and gravel paths, and bare cultivated ground. There are about 10 records of subspecies *erecta* for every 1 record of subspecies *apetala*. The sepals are spreading

(not erect) with rounded (not pointed) tips and the seeds are mostly smaller than 0.33mm. The pedicel may have a few glandular hairs.

Bonar Bridge		15/07/1979	M. McC. Webster
Golspie		15/07/1979	M. McC. Webster
Rogart		15/07/1979	M. McC. Webster
East Kinnauld quarry	NC743013	16/07/1979	M. McC. Webster
Golspie GC	NH823990	17/07/1979	M. McC. Webster

NC30 NC50 NC70 NC81 NC83 NC90 ND01 NH69 NH78 NH89

Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Back Street Helmsdale	ND026153	alley	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Dornoch Firth Road Bridge	NH747871	roadside	30/06/2013
Dornoch Common Good	NH806875	dune slacks	30/06/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Golspie High Street N end	NC837002	terrace	06/07/2013
Flood Bay	NH712882	coastal grassland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Ospisdale House	NH713897	parkland	11/07/2013

NVC: SD 1; MC 5, 8, 9, 10; OV 2, 20

Sagina maritima Don *Sea Pearlwort*

th 5



Sagina maritima Leonardo Forbicioni

Damp sand dunes, rocky places and bare cliff ledges. Uncommon and local.

NC90 NC91 ND01 NH78 NH79 NH88 NH89

Dornoch Links E NH790880 composite 14/07/2011 R Pankhurst

NVC: SM 21; MC 5, 8

Scleranthus annuus L. *Annual Knawel* th 6 †

Dry sandy cornfields, dry woodland rides, and disturbed sand ground and heathy ground on acid sandy soils. Very local and rare on sandy waste ground at Golspie in 1888. No post-1991 records.

Golspie		15/07/1888	J. Grant
Migdale	NH627919	04/08/1991	J.K. Butler

NC70 NC80

NVC: OV 1

Herniaria glabra L. *Smooth Rupturewort* h 6

Dry sandy ground. Very local and rare.

Helmsdale	ND034152	07/08/1999	BSBI
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ND01

Spergula arvensis L. *Corn Spurrey* o th 6

A weed of dry arable fields and allotments on acid sandy soils, locally abundant, but absent from calcareous and damp clay soils. Also moved about in consignments of topsoil (as at Hilton, below). Common in the lowlands.

NC30 NC40 NC50 NC51 NC60 NC70 NC71 NC73 NC74 NC80 NC81 NC82 NC84 NC90 NC91
NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Camore Wood	NH771894	gravel pit	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Drumliah	NH608931	ruined croft	09/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
W of Mound Rock	NH767993	poached ground	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
sea front Golspie	NH831998	disturbed ground	07/09/2012
Loch Shin	NC529118	rocky shore	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Coul	NH801947	roadside	04/07/2013

Cyderhall Farm Cuthill	NH764892	arable	04/07/2013
East Lodge Skibo Castle	NH749890	lane	04/07/2013
Academy Street Brora	NC902044	dry banks	07/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015
S Brora	NC901032	coastal grassland	14/06/2015

NVC: OV 1,3,4,10,13,19,22,23,33

Spergularia media (L.) C. Presl *Greater Sea-spurrey* th 5

Arenaria media L.

Spergularia marginata Kittel, nom. illegit.

Spergularia maritima (All.) Chiov.



Spergularia media Peter Llewellyn

Muddy places in salt marshes. Told from *S. marina* by its bigger flowers (>8mm across), sepals (>4mm) and capsules (>5mm), and from *S. rupicola* by the fact that it is not woody below. Very local and uncommon.

NC70 NH78 NH79 NH88 NH89

Dornoch Common Good	NH801879	salt marsh	13/07/2010
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011

Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Common Good	NH806875	dune slacks	30/06/2013
Loch Fleet at Balblair Wood	NC804975	salt marsh	07/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
Newton Point	NH711876	shingle beach	11/07/2013
Dornoch Common Good	NH804881	salt marsh	29/06/2014
N Loch Fleet	NH800971	salt marsh	12/06/2015
Dornoch Common Good	NH802874	salt marsh	11/06/2015

NVC: SM 6, 7, 10-17, 21-26

Spergularia marina (L.) Griseb. *Lesser Sea-spurrey*

th 6

Buda marina Dumort

Arenaria rubra L. var. *marina* L.

Spergularia salina J.S. Presl and C. Presl



Spergularia marina Peter Wakeham

Salt marshes and salted roadsides. Told from *S. media* by smaller flowers (5-8mm across not 10-12mm) and fewer stamens (2-7 not 10). Local and uncommon.

NC40 NC41 NC52 NC60 NC90 NC91 ND01 NH78 NH79 NH89

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Longuish Road Junction	NH644919	waste ground	10/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
Balblair Loch Fleet	NH804973	salt marsh	08/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
A9 verge at Ord	ND048173	roadside	07/07/2013
Newton Point	NH711876	shingle beach	11/07/2013
N Loch Fleet	NH800971	salt marsh	12/06/2015

NVC: SM 21, 23

Spergularia rubra (L.) J. Presl and C. Presl *Sand Spurrey*
Arenaria rubra L.

th 5

Bare sandy heaths and cultivated fields, lawns, paths and bare places on dry acid soils in small quantity.

NC30 NC41 NC42 NC51 NC52 NC70 NC73 NC74 NC81 NC82 NC84 NC92 ND01 NH78 NH79
NH89

Dornoch Common Good	NH801879	salt marsh	13/07/2010
Tulloch	NH613925	ditch	09/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Academy Street Brora	NC902044	dry banks	07/07/2013

NVC: U 1

Agrostemma githago L. *Corncockle*
Lychnis githago (L.) Scop.

o th 6

Formerly a cornfield weed chiefly on light soils, but now an occasional garden escape and an increasing member of the seed bank community. Often moved around in topsoil and occurring the year after topsoil has been dumped or spread during landscaping works. Likely to appear following soil disturbance wherever it was formerly grown, but most likely to be seen close to buildings. More

likely to be seen nowadays as part of a commercial wildflower mix, with *Anthemis austriaca*, *Centaurea cyanus* and *Glebionis segetum*.

Brora Rangers FC Brora NC902035 bungalows 07/09/2012

Also recorded from Easternness and the Moray coast.

Silene vulgaris (Moench) Garcke *Bladder Campion*

hp 6

Behen vulgaris Moench

Silene vulgaris subsp. *vulgaris*

Silene cucubalus Wibel, nom. illegit.

Silene angustifolia auct., non (DC.) Guss.

Oberna behen (L.) Ikonn.

Waysides, cultivated and fallow fields and disturbed ground by roadsides. Local and rare.

NC90 NH89

Clashmore	NH747895	village	10/07/2010
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014

NVC: OV 16,23,25

Silene uniflora Roth *Sea Campion*

hp 6

Silene maritima With.

Silene vulgaris subsp. *maritima* (With.) A. & D. Love

This is the wild campion of sea-side habitats, growing on shingle, rocks, sea-cliffs and sand dunes. Also occasionally in montane habitats. Told from *S. vulgaris* by its herbaceous (not scarious) bracts and its spreading (not erect) capsule teeth.

Strathsteven NC880013 15/07/1975 J.E. Kirby

NC31 NC80 NC91 ND01 NH59 NH68 NH78 NH79 NH88 NH89

Carnegie Golf Course	NH731871	shingle beach	10/07/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Littleferry	NH806956	hamlet	07/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Common Good	NH806873	sand dune	30/06/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013

Newton Point	NH711876	shingle beach	11/07/2013
Newton Point	NH713877	shingle beach	24/06/2014
Little Ferry	NH805956	hamlet	14/05/2015

NVC: SM 8; SD 1, 2; MC 1-6, 8-12

Also as an uncommon garden escape or relic, as at

Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Brora Harbour	NC909037	village	12/05/2011
Littleferry	NH804957	hamlet	08/05/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Stafford Street Helmsdale	ND029154	waste ground	09/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

Silene acaulis (L.) Jacq. *Moss Campion*

ch 6



Silene acaulis Peter Llewellyn.

Mountain rock ledges and scree. Occasional in the uplands.

Ben Hee		15/07/1964	D.A. Ratcliffe
Ben More Assynt		15/07/1964	D.A. Ratcliffe
Carn Dearg		07/06/1973	A.G. Kenneth
Coire a' Mhadaidh	NC305209	12/07/1998	Gordon Rothero
Dubh Loch Mor	NC320190	11/07/1998	Gordon Rothero
Creag na h-Uidhe	NC 383371	27/07/2010	Mark Jannink
Coire Mhadaidh Conival	NC307203	10/08/2012	Gordon Rothero

NC31 NC32 NC33 NC43 NC52 NC83 NC84

Ben Hee NE slope NC420330 upland 29/05/2014 Mary Clarkson

NVC: CG 10-12, 14; U 9-15, 17

Also, rarely, as a garden plant:

Ospisdale House NH713897 parkland 11/07/2013

[Silene armeria L. *Sweet-William Catchfly*] ● th 6

An uncommon garden escape of waste places.

Recorded from Easternness and the Moray coast.

[Silene noctiflora L. *Night-flowering Catchfly*] ○ th 7
Melandrium noctiflorum (L.) Fries

Dry cornfields, especially on sandy calcareous soils

Recorded from Easternness and the Moray coast.

NVC: OV 16

Silene latifolia Poir. *White Campion* ○ hp 5

Silene latifolia subsp. **alba** (Mill.) Greuter and Burdet

Lychnis alba Miller

Silene pratensis (Rafn) Godron and Gren.

Melandrium album (Miller) Garcke

Silene alba (Miller) E.H. Krause, non Muhlenb. ex Britton

Hedges, cultivated fields, commons, rough grassland, lawns, roadsides and waste places. Occasional but seldom in quantity, and rare on acid soils. Host to the anther smut fungus *Microbotryum violaceum* (= *Ustilago violacea*). The shiny dark brown-black aphid is *Brachycaudus lychnidis*.

NC60 NC70 NC80 NC82 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Golspie Sea Wall	NH827995	sea wall	11/07/2010
Drumlian Road Bonar Bridge	NH606924	council houses	12/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
Dalchalm	NC909056	village	12/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Rogart Station	NC724019	railway	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011

Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Littleferry	NH806956	hamlet	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Ross Terrace Brora	NC905038	railway	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Davochfin	NH785893	roadside	04/07/2013
Glashbuie North Brora	NC903053	derelict building	05/07/2013
A9 underpass at Ord	ND048173	roadside	07/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Feith Bhuide	NH690905	pine plantation	11/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Dalchalm	NC909054	gravel	19/06/2015
Achinchanter Dornoch	NH800903	disturbed ground	21/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Helmsdale Station Yard	ND023155	waste ground	17/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
Little Ferry	NH805956	hamlet	12/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

NVC: OV 3,15,16,18,19,22,24

Silene x hampeana Meusel and K. Werner = **S. latifolia x S. dioica**

Silene x dubia (Hampe) Guin. & R. Vilm., non Herbich ex Rohrb. nec E.H. Krause

Silene x intermedia (Schur) Philp, non (Lange) Bocq.

This is a common and highly fertile hybrid, with pale pink petals, that is intermediate in all its characters. Sometimes found in the absence of either parent. There are unsupported older records from Lairg, Dornoch, Golspie and Helmsdale.

NC50 NC70 NC80 NC90 NC91 ND01 NH78 NH79 NH89

Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Rogart Station	NC724019	railway	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Little Ferry	NH805956	hamlet	12/06/2015

Helmsdale Station Yard ND023155 waste ground 17/06/2015

Silene dioica (L.) Clairv. *Red Campion*

hp 5

Lychnis dioica L.

Melandrium dioicum (L.) Cosson and Germ.

Sea cliffs, roadsides, woods, hedges, sunken lanes, railway-banks, shady places, disturbed ground etc.; locally plentiful, but rare or absent from acid soils. Often less abundant than the pink flowered hybrid (above).

NC31 NC40 NC42 NC50 NC60 NC70 NC74 NC80 NC83 NC84 NC90 NC91 ND01 NH59 NH68
NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Greenpark S of Helmsdale	ND019144	railway	11/07/2010
Glaslochan Links N Brora	NC912060	stream	11/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Culmaily Burn	NH812978	stream	11/07/2010
Linsidemore Wood	NH498998	roadside	12/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Tower Farm Golspie	NC835011	roadside	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Lochside	NC872355	hamlet	11/05/2011
East Clyne	NC893062	stream	12/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Mound Rock basal woods	NH780985	woodland	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011

Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
Badnellan North Brora	NC883043	hamlet	10/09/2012
Achrimsdale	NC909067	hamlet	07/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Backies Curling Pond	NC839012	woodland	05/05/2013
Big Burn car park Backies	NC837013	woodland	05/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Camore	NH775903	bungalows	30/06/2013
Cyderhall Farm Cuthill	NH764892	esker	04/07/2013
R Evelix at Cuthill Bridge	NH748878	riverbank	04/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Carn Liath	NC867013	lane	05/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Backies	NC832012	ditch	06/07/2013
Dunrobin Beach Walk	NC842002	coastal grassland	06/07/2013
Dunrobin Castle Beach	NC849005	coastal grassland	06/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Sciberscross Lodge	NC775100	parkland	10/07/2013
Clynesh Brora	NC902053	hamlet	10/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
etc.			

NVC: MG 1; OV 25,27; S 26; W 6,8,10,12,21-25

[*Silene gallica* L. *Small-flowered Catchfly*]

o th 6

Silene anglica L.

Silene quinquevulnera L.

A local speciality of sandy cornfields and gravelly waysides; very rare or extinct as a result of heavy use of herbicide and fertiliser. A scarce plant in Britain, growing as a winter-annual weed of cultivated or disturbed ground on sandy soils. Occasionally found as a casual from imported clover seed. Known from other annual campions by its hairy leaves and stems, and its short (< 12mm) calyx with long, spreading hairs. Extinct at most if not all of its former sites.

Recorded from Easterness and the Moray coast.

[*Silene conica* L. *Sand Catchfly*]

th 5

Pleconax conica (L.) Sourk.

A local speciality of bare places in nutrient-poor sandy grassland.

Recorded from Easternness and the Moray coast.

NVC: U 1

Silene coronaria (L.) Clairv. *Rose Campion*

• th 5

Agrostemma coronaria L.

Lychnis coronaria (L.) Murray

A ubiquitous cottage garden plant, freely seeding and widely naturalised close to buildings. One of the commonest garden escapes, capable of forming self replacing populations even in competition with grasses. Waste places and rubbish tips, locally frequent. White flowered plants are rare except in gardens.

Dornoch Main Street	NH798895	street	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Embo	NH815928	village	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Camore	NH778903	council houses	12/07/2010
Back Road Golspie	NC829000	council houses	08/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
N Portgower	ND013137	roadside	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
Embo	NH817928	village	23/06/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Duke Street Golspie	NC838001	old walls	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012

Seaforth Place Brora	NC903035	bungalows	17/05/2012
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

Plants with **white flowers** recorded from:

Portgower	ND010135	hamlet	07/09/2012
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Silene flos-cuculi (L.) Clairv. *Ragged-Robin*
Lychnis flos-cuculi L.

hp 5

Marshes, dune slacks, wet meadows, damp woodland rides, alder woods, osier holts and marshes. Common and generally distributed.

NC30 NC31 NC40 NC50 NC51 NC60 NC61 NC63 NC70 NC71 NC72 NC80 NC81 NC82 NC83
 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Culmaily Burn	NH812978	stream	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Dornoch Airfield	NH801883	dune grassland	19/06/2011
Dornoch Airfield	NH805883	dune grassland	19/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Truderscaig settlement	NC704342	molinia bog	21/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Londornach	NH751938	hamlet	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Borrobol Forest	NC803255	woodland	13/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011

Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Glen Loth watershed	NC935158	roadside	09/09/2012
Dornoch Wind Sock	NH800883	dune slacks	30/06/2013
Dornoch Common Good	NH805883	salt marsh	30/06/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Davochfin	NH785893	roadside	04/07/2013
Loch Buidhe	NH657982	stony shore	09/07/2013
Sciberscross Lodge	NC775100	parkland	10/07/2013
etc.			

NVC: M 5, 9, 13, 22-28; MG 8, 10; S 4, 24, -27; SM 18; SD 15, 17; OV 26

Lychnis chalconica L. *Maltese-Cross* ● hp 5

A popular herbaceous border plant with very striking bright scarlet flowers. An occasional outcast, but quite persistent where it occurs.

Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Skibo Castle S front	NH737890	parkland	11/07/2013

Saponaria officinalis L. *Soapwort* ○ hp 6

Sandy fields, roadsides, ditches, railway banks, gravel pits and waste ground. In small colonies. Hedges and waste places, generally near houses. Rare.

ND01

Lonemore Road Dornoch	NH788896	roadside ditch	11/06/1990
Loth Station Cottage	NC957100	hamlet	18/06/2015

[Saponaria ocymoides L.] ● hp 6

A popular rockery and wall plant, rarely escaping.

Recorded from the Moray coast.

[Vaccaria hispanica (Mill.) Rauschert *Cowherb*] ● th 6

Saponaria hispanica Miller

Saponaria vaccaria L.

Vaccaria pyramidata Medikus

Waste places, cultivated fields, railway ballast.

Recorded from the Moray coast.

[Petrorhagia nanteuillii (Burnat) P.W. Ball and Heywood *Childing Pink*] th 7

Dianthus prolifer L.,

Tunica prolifera (L.) Scop.,

Kohlruschia nanteuilii (L.) Kunth

A rare casual of sandy places. Hard to tell from *P. proliferai* since identification requires microscopic inspection of the seeds.

Recorded from the Moray coast.

Gypsophila paniculata L. *Baby's-breath* ● ch 5

A common perennial garden plant forming a mound of stiff, thin stems, but rarely escaping.

Old Shore Lairg NC582068 council houses 06/09/2012

Gypsophila muralis L. *Annual Gypsophila* ● th 5

A cushion-forming dwarf annual with masses of tiny white flowers on hair-like stalks.

[***Dianthus caryophyllus*** L. *Clove Pink*] ● ch 6

Common garden plants, but very rare as outcasts or escapes.

Recorded from Easternness and the Moray coast.

Dianthus plumarius L. *Pink* ● hp 6

Glaucus perennials with spectacular fragrant flowers varying from white to deep pink, with deeply dissected petals and relatively long leaves (> 2cm) on the sterile shoots.

Loth Station Cottage NC957100 hamlet 18/06/2015

Dianthus deltoides L. *Maiden Pink* ● ch 6

Known by its single (not clustered) flowers and its shortly-hairy (not glabrous) lower stems. The flowers are scentless.

Balnacoil Lodge NC804113 06/08/1999 BSBI

NC81

Dianthus barbatus L. *Sweet-William* ● hp 7

The quintessential cottage garden plant, also used for bedding in more formal gardens. An occasional garden escape in towns and villages throughout.

NC90

Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012

Seaforth Road Golspie	NH829999	council houses	07/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Ospisdale	NH712897	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Dianthus armeria L. *Deptford Pink*

● th 7

Sandy fields and hedge-banks, on gravelly soil in sunny exposures. A scarce plant as a native in Britain. An annual or biennial of dry pastures, field borders and hedgerows where the grass is kept short by grazing or management. Not uncommon as a garden escape. Told by its compact cluster of multiple (not single) flowers with hairy calyces, lacking sterile shoots at flowering time (unlike the perennial *D. barbatus*).

Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012

AMARANTHACEAE

These plants are difficult to identify, and comparison with properly named herbarium specimens is recommended. You will need *fruiting* perianths to make a determination, and you need to know the difference between a tepal and a bracteole. These species tend to be found whenever and wherever someone capable of identifying them looks for them at the right time of year (late summer) in the right kinds of places (tips and disturbed waste ground in towns).

Chenopodium species are often hard to tell apart without microscopic inspection of the surface of the ripe seeds. Even then, determination may be difficult. The variation within the species is so great that recognition of hybrids from morphology alone is often impossible. An additional problem is that the plants flower so late in the year that they are often frosted before they have ripened their seeds, which renders them unidentifiable.

[**Chenopodium botrys** L. *Sticky Goosefoot*]

● th 7

Recorded from Easternness and the Moray coast.

[**Chenopodium capitatum** (L.) Ambrosi *Strawberry-blite*]

● th 7

Blitum capitatum L.

Recorded from Easternness and the Moray coast.

Chenopodium bonus-henricus L. *Good-King-Henry*

○ hs 5 †

This is an intriguing case where a once-weedy species has shown a substantial decline. Now a great rarity, it is confined to middens and other nutrient rich, warm soils close to buildings. Probably a victim of general rural tidying up, coupled with a discontinuation of its direct cultivation as a vegetable. No recent records.

Golspie Tower

15/07/1888

J. Grant

NC80

[Chenopodium murale L. *Nettle-leaved Goosefoot*] o th 7

Waste and cultivated ground, river-sides, gardens and rubbish-heaps. Rare and sporadic.

Recorded from Easternness and the Moray coast.

[Chenopodium desiccatum A. Nelson *Slimleaf Goosefoot*] • th 8

Chenopodium pratericola Rydb.

Chenopodium leptophyllum (Nutt. ex Moq.) S. Watson

Very rare casual. Easy to identify with its small, unlobed, rather fleshy, lanceolate leaves.

Recorded from Easternness and the Moray coast.

[Chenopodium ficifolium Sm. *Fig-leaved Goosefoot*] o th 7

Waste and cultivated ground, rare.

Recorded from Easternness and the Moray coast.

Chenopodium album L. *Fat-hen* th 7

Waysides, cornfields, garden ground, manure heaps, and disturbed ground. Abundant and generally distributed. Much the commonest goosefoot on arable, garden and waste ground. Leaves attacked by the blotch mine of *Chrysoesthia sexguttella* and flower heads often have cases of the moth *Coleophora clypeiferella*. A spring-germinating weed, seldom overwintering as a seedling, and hence commonest on late-spring or summer-cultivated plots. Common in the lowlands.

NC40 NC50 NC60 NC70 NC80 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69
NH78 NH79 NH89

Duke Street Golspie	NC838001	stonework	09/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Burnside	NH608926	ditch	09/07/2011
Rogart Station	NC724019	railway	10/07/2011
Cattle feeder Strath Fleet	NH767993	poached ground	10/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Dornoch Firth Causeway	NH747863	embankment	30/06/2013
East Lodge Skibo Castle	NH749890	lane	04/07/2013
Cyderhall Farm Cuthill	NH764892	arable	04/07/2013
Coul	NH801947	roadside	04/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013

Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015

[Chenopodium probstii Aellen *Probst's Goosefoot*]

• th 7

A wool, grain and bird-seed alien.

Recorded from Inverness.

[Spinacia oleracea L. *Spinach*]

• h 7

Commonly grown in gardens and on allotments. Running quickly to seed in dry years it is frequently self-sown. Over-recorded and often mistaken for *Beta vulgaris*. Popeye must have known that the iron for which spinach is famous is water-soluble and hence the cooking water needs to be reduced (e.g. with butter) and added back to the cooked leaves to obtain any benefit.

[Atriplex hortensis L. *Garden Orache*]

• th 7

Rubbish tips and waste places, casual. Seldom grown these days as a spinach substitute, although it is hardier and easier to grow than *Spinacia oleracea*. The commonest garden plant is 'Rubra' grown as an ornamental for its pinky-purple foliage.

Atriplex prostrata Boucher ex DC. *Spear-leaved Orache*

th 7

Atriplex hastata sensu L.(1754), non L.(1753)

Atriplex calotheca auct., non (Rafn) Fries

Atriplex patula L. var. *triangularis* (Willd.) Thorne and Welsh

Dunes, waste ground, rubbish-heaps, garden ground, arable land, river banks, roadsides and disturbed ground; common. The second commonest orache after *A. patula*. The two are told apart on the morphology of the bracteoles: they are fused only at the base (lower quarter) in *A. prostrata* and fused for one third or more of their length in *A. patula*. The basal leaves are truncate in *A. prostrata* and cuneate in *A. patula*. Leaves attacked by the corridor mine of *Chromatomyia horticola*.

NC50 NC80 ND01 NH78 NH79 NH88 NH89

Carnegie Golf Course	NH731871	shingle beach	10/07/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Dunrobin Castle beach	NC849004	shingle beach	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
Duke Street Golspie	NC838001	stonework	09/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Burnside	NH608926	ditch	09/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Linsidemore	NH540990	woodland	12/07/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011

Dornoch Point	NH800870	sand dunes	14/07/2011
Brora S beach	NC909034	shingle beach	09/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
sea front Golspie	NH832998	shingle beach	07/09/2012
Dornoch Stream Saltmarsh	NH806888	salt marsh	20/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Newton Point	NH713877	shingle beach	24/06/2014
West Helmsdale	ND020157	hamlet	27/06/2014
Dornoch Common Good	NH804881	salt marsh	29/06/2014
Dornoch Common Good	NH807875	fore dune	11/06/2015
N Loch Fleet	NH800971	shingle beach	12/06/2015
Navidale Bay	ND040157	coastal grassland	17/06/2015
Crackaig Links	NC961099	sand dunes	18/06/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015
Dornoch Common Good	NH807885	fore dune	11/06/2015

NVC: MG 13; OV 7-10,13,19,21,22,25,28,33; S 4,18,28

[Atriplex x hulmeana Tascher. = **A. littoralis x A. prostrata**]

Recorded from Easternness and the Moray coast.

[Atriplex x gustafssoniana Tascher. = **A. longipes x A. prostrata**]

Recorded from Easternness and the Moray coast.

Atriplex glabriuscula Edmondston *Babbington's Orache*

th 8

Sandy and shingly beaches. Occasional.

NC80 NC90 NC91 ND01 NH68 NH69 NH78 NH79 NH89

Carnegie Golf Course	NH731871	shingle beach	10/07/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Crackaig Links	NC961098	sand dunes	11/07/2010
Dunrobin Castle beach	NC849004	shingle beach	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
Dornoch Dunes	NH806876	sand dunes	19/06/2011
Kintradwell Links	NC933085	sand dunes	23/06/2011
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Newton Point	NH713877	shingle beach	24/06/2014

Dornoch Common Good	NH807885	fore dune	11/06/2015
Dornoch Common Good	NH807875	fore dune	11/06/2015

NVC: SD 2-6

Atriplex x taschereaui Stace = **A. glabriuscula x A. longipes**

NC80

Atriplex praecox Hulph. *Early Orache*

th 8 †

Atriplex longipes subsp. *praecox* (Hulph.) Turesson

On the coast, just above the seaweed zone. Always local and rare. Recorded by E.S. Marshall from Loch Fleet (NH7896) in August 1897. No recent records.

NH79

Atriplex littoralis L. *Grass-leaved Orache*

th 8



Atriplex littoralis allergome.org

Sea shores. Local and rare. Also one of the less common members of the roadside salt-advective community where it grows with *Puccinellia distans* and *Spergularia marina*.

NH78 NH79 NH88

Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Loch Fleet S shore	NH780960	salt marsh	23/06/2011

Dornoch Point	NH806875	sand dunes	14/07/2011
Dornoch Links W	NH780880	salt marsh	14/07/2011
Dornoch Links E	NH790880	salt marsh	14/07/2011
Dornoch Dunes N	NH806906	sand dunes	14/07/2011
Dornoch Dunes Central	NH807898	sand dunes	14/07/2011
Dornoch Dunes S	NH800883	sand dunes	14/07/2011
Dornoch Stream Saltmarsh	NH806888	salt marsh	20/05/2012
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Dornoch Common Good	NH806873	sandy beach	30/06/2013
Coul Links	NH805953	shingle beach	04/07/2013
Dornoch Common Good	NH804881	salt marsh	29/06/2014
Newton Point	NH713877	shingle beach	24/06/2014

NVC: SM 24, 25, 28; SD 2; MC 5

[*Atriplex littoralis* x *A. patula*]

Recorded from the Moray coast.

***Atriplex patula* L. Common Orache**

th 8

Cultivated ground and waste places, common and generally distributed. Locally frequent except on very acid soils. Much the commonest of our inland oraches (see *A. prostrata*, above), but found in a narrower range of habitats, and more restricted to open disturbed ground. Very late flowering.

NC40 NC50 NC70 NC80 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH89

Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Duke Street Golspie	NC838001	old walls	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012

NVC: OV 7-9,12,13,15,19,20,22,28,33; S 18; SD 2, 3

***Atriplex laciniata* L. Frosted Orache**

th 8

On the strandline of sandy beaches. Local and rare. No recent records.

Dunrobin Castle Beach	NC850005	shingle	29/08/1975 Taschereau, P.M.
Golspie Beach	NH830990	beach	17/07/1979 Webster, M.McC.

NC80 NH89

***Beta vulgaris* L. Beet**

[*Beta vulgaris* subsp. *maritima* (L.) Arcang. Sea Beet]

• h 7

Beta maritima L.

Very local and rare. Recorded from the Moray coast.

***Beta vulgaris* subsp. *vulgaris* Root Beet**

• th 7

Arable crops of sugar beet are not grown in vc. 107, and old fashioned crops like mangold are all but extinct with us. Garden beets are of three main kinds: beetroot, chard and perpetual spinach beet. There are numerous beetroot cultivars including plants with white flesh like 'Albinia Verecunda'. Chard *Beta vulgaris* subsp. *cicla* (L.) Arcang. *Foliage Beet* (also known as seakale beet) is most commonly grown as Swiss chard (var. *flavescens*), but there are some ornamental cultivars including the crimson-stalked 'Rhubarb Chard'. Perpetual spinach beet has shorter stems and is much less prone to bolting than chard. All these are found occasionally as outcasts on tips, especially those close to allotments.

Dalchalm NC909056 village 12/05/2011

[*Salicornia ramosissima* Woods *Purple Glasswort*] th 7

Recorded from Easternness and the Moray coast.

Salicornia europaea* L. agg. *Common Glasswort th 7

Muddy salt marshes. Local and uncommon at Ferrytown, Skelbo, Dornoch, Cambusmore, Loch Fleet. The vc. 107 plants deserve detailed attention.

NH78 NH79 NH89 NH79

Littleferry Loch Fleet	NH775960	salt marsh	11/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Dornoch Links E	NH790880	salt marsh	14/07/2011
Dornoch Point	NH800870	salt marsh	14/07/2011
Loch Fleet by Four Parks	NH775960	shore	08/05/2013
Loch Fleet by Four Parks	NH781955	shore	08/05/2013
Dornoch Common Good	NH803880	salt marsh	30/06/2013
Loch Fleet N shore	NH804974	saltmarsh	07/05/2013
N Loch Fleet	NH800971	salt marsh	12/06/2015
Dornoch Common Good	NH802874	salt marsh	11/06/2015

[*Salicornia fragilis* P.W. Ball & Tutin *Yellow Glasswort*] th 7

Recorded from Easternness and the Moray coast.

[*Salicornia dolichostachya* Moss *Long-spiked Glasswort*] th 7

Recorded from Easternness and the Moray coast.

Suaeda maritima* (L.) Dumort. *Annual Sea-blite th 7

Middle and lower parts of salt marsh. Local and rare.

Ferrytown	NH718870	John Anthony
Dornoch	NH800895	John Anthony
Skelbo	NH802948	John Anthony
The Mound	NH775980	John Anthony

NC91 NH78 NH79 NH88 NH89

Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Point	NH806875	sand dunes	14/07/2011
Dornoch Dunes S	NH805879	sand dunes	14/07/2011

Salsola kali L.

th 7

Salsola kali subsp. **kali** *Spineless Prickly Saltwort*

Salsola ruthenica Iljin

Salsola tragus auct., non L.

Salsola australis R. Br.

Salsola pestifer Nelson

On sandy shores. Local and rare. Dornoch and Golspie.

Loch Fleet	NH7--9--	08/08/1897	Shoolbred, W.A. NMW
Dornoch	NH800895	15/07/1959	John Anthony
Golspie	NH833998	15/07/1959	John Anthony
Dornoch Point		15/07/1972	M. Barron

NH78 NH79 NH88 NH89

Dornoch Common Good	NH806873	sandy beach	30/06/2013
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[**Amaranthus blitoides** S. Watson *Prostrate Pigweed*]

• th 7

Recorded from Easternness and the Moray coast.

[**Amaranthus caudatus** L. *Love-lies-bleeding*]

• th 7

Popular bedding plants, also found mass-planted in municipal schemes; common as an outcast, more rarely from seed.

[**Amaranthus retroflexus** L. *Common Amaranth*] • th 7

The 5 tepals are rounded (but mucronate) and the green vein ends before the tip.

Recorded from Easternness and the Moray coast.

[**Amaranthus albus** L. *White Pigweed*]

• th 7

Recorded from Easternness and the Moray coast.

Celosia cristata L. *Cockscomb*

• h 7

Celosia argentea var. *cristata* (L.) Kuntze

Celosia plumosa hort.

Celosia spicata 'Flamingo Feather'

Dense spikes of everlasting white, red, gold or purplish-white flower spikes. An uncommon bedding plant, usually grown as an annual, flowering late into the summer until cut down by frost. Stace is very rude about *Celosia*, which he says "is probably the world's ugliest plant". Much used in bedding schemes and occasionally found on tips.

Biblical Gardens Golspie NC837001 garden 07/09/2012

AIZOACEAE

[***Tetragonia tetragonioides*** (Pall.) Kuntze *New Zealand Spinach*] • h 7

Occasionally grown as a garden vegetable; found as a throw-out.

Dorotheanthus bellidiformis (Burm.f.) N.E.Br. *Livingstone Daisy* • h 7



A popular bedding plant in vc. 107, occasionally found as an outcast. This is the only Iceplant seen commonly in gardens in these parts.

Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012

MONTIACEAE

Claytonia perfoliata Donn ex Willd. *Springbeauty*
Montia perfoliata (Donn ex Willd.) Howell

• th 5

Plantations and gardens on well drained soils, locally frequent. Thrives in dry shade (e.g. on the bare ground under conifers) where other plants can not grow. Appears to have expanded its range between about 1900 and 1950. Uncommon as a salad and vegetable crop under its alternative name of *Miner's Lettuce* (from its use by miners during the California gold rush of the 1850s as a fresh vegetable to stave off scurvy). Now thoroughly naturalised, locally common in hedge bottoms and on waste ground. Local and rare.

Dornoch	NH798895	15/06/1967	John Anthony
Brora		15/06/1969	M. McC. Webster

NC80 NC90 NH78

Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
N Brora	NC904051	bungalows	12/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Little Ferry	NH805956	hamlet	14/05/2015
Campbell Street Dornoch	NH791895	new housing	11/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Claytonia sibirica L. *Pink Purslane*

• h 4

Claytonia alsinoides Sims
Montia sibirica (L.) Howell

Plantations and gardens on acid soils. Locally abundant in moist shade in woodlands and on stream banks. A pernicious garden weed. Occasional in the lowlands.

Brora		15/07/1958	WAT
Loth		15/07/1962	John Anthony
Helmsdale		15/07/1962	John Anthony
Golspie		15/06/1969	M. McC. Webster
Big Burn Golspie	NC838011	15/07/1975	J.E. Kirby

NC50 NC80 NC81 NC90 NC91 ND01 NH68 NH69 NH79 NH89

Big Burn Golspie	NC840009	woodland	07/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Skibo Castle walled garden	NH737891	garden weed	10/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Duke Street Golspie	NC839001	riverbank	07/09/2012
Big Burn Golspie falls	NC840085	woodland	05/05/2013

Big Burn Golspie railway	NC840008	woodland	05/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015
Golspie Big Burn	NC841006	woodland	11/05/2015
Golspie Big Burn	NC840008	woodland	11/05/2015
Golspie Big Burn	NC840007	woodland	10/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

Montia fontana L. *Blinks*

hel 4

Wet places on heathy ground, seasonally damp hollows, springs, and damp lawns on acid sands. Widespread and locally common. Of the few records below that were checked, most were *M. f.* subsp. *fontana* (but much more work is required on the distributions of the subspecies within vc. 107).

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
NH68 NH69 NH78 NH79 NH89

St Andrew's Golspie	NC837002	churchyard	09/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Rhilochan	NC743071	roadside	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Golf Course	NC915058	links	12/05/2011
A9 verge S of Lothbeg	NC941098	roadside	11/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Achentoul Burn	NC897326	waterfall	19/06/2011
Achentoul Burn	NC903322	wet heath	19/06/2011
Skelbo Wood	NH784941	plantation	10/07/2011
Skelbo Wood	NH731943	plantation	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
E of Sallachy	NC545095	composite	16/07/2011

Loch Airighe Mhor	NC680030	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Ben Uarie mid slope	NC929160	heather	09/09/2012
Glen Loth watershed	NC935158	roadside	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
Marians Rock Quarry	NC742013	quarry bottom	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Strath Carnaig	NH716982	birch wood	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
etc.			

NVC: MG 13; OV 2; M 4, 28, 32, 33, 35, 37

The four subspecies are distinguished by their seeds; subsp *fontana* is very shiny and has a smooth (not bumpy) margin and centre; subsp *chondrosperma* has jet black seeds with broad, rounded (not pointy) tubercles all over their faces as well as their margins, while the last two have rather pointed tubercles. subsp *variabilis* has fewer rows of pointed tubercles (1-4 counting from the edge) while subsp. *amporitana* (very rare in Scotland) has 3 or more rows of pointy tubercles (counting in from the edge) on its shiny seeds which are smooth near the centre of their faces. All four subspecies have the whole surface of the seed partitioned into polygons, so the smoothness of subsp. *amporitana* does not mean a lack of polygons in the centre of the face of the seed (see Fig 506 in Stace).

Montia fontana subsp. **chondrosperma**

Manse Road Lairg	NC582069	council houses	16/05/2012
Hilton	NH804915	hamlet	04/07/2013

Montia fontana subsp. **fontana**

Ben Hee		15/07/1973	A.G. Kenneth
Meall an Fheur Loch		15/07/1973	A.G. Kenneth
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Rhilochan	NC743071	roadside	12/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Dalchalm	NC909056	village	12/05/2011
N Brora	NC904051	bungalows	12/05/2011
A9 verge S of Lothbeg	NC941098	roadside	11/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Sallachy Loch Shin	NC555073	birch wood	13/07/2010

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Leathad nan Toll	NH696959	forest road	13/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Caplich Estate	NC358021	birch wood	06/05/2013
Duchally Lodge Cassley	NC387170	hamlet	06/05/2013
St Mirrens Cemetery	NC783098	graveyard	07/05/2013
Creag a'Bhodaich Sletdale	NC911149	stream bank	01/07/2013
Creag a'Chrionaich Sletdale	NC924115	dry heath	01/07/2013
Arsaig Birch Wood	NC505143	birch wood	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Birchwood Lodge Kildonan	NC984185	oak woodland	05/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Coire na Saidhe Duibhe	NC689285	crag	12/07/2013
Coire na Saidhe Duibhe	NC695282	crag	12/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013

CORNACEAE

Cornus L. *Dogwoods*

Dogwoods are widely planted in urban landscaping schemes and on roadsides, often for the winter effect of their colourful twigs. Even in winter, these can be told at once from ornamental willows by the fact that *Cornus* has buds in opposite pairs, whereas *Salix* has alternate buds.

[**Cornus sanguinea** L. *Dogwood*]

• m 6

Swida sanguinea (L.) Opiz

Thelycrania sanguinea (L.) Fourr.

This is the English native Dogwood of wood margins, hedge-banks, thickets, lane-sides on the clay, and river-sides. Much planted as the green-twigged cultivar 'Viridissima' and the orange-twigged cultivars 'Winter Beauty' and 'Winter Flame'.

Recorded from Easternness and the Moray coast.

Cornus sericea L. *Red-osier Dogwood*

• m 6

Cornus stolonifera Michaux

Thelycrania stolonifera (Michaux) Pojark.

Thelycrania sericea (L.) Dandy

Swida sericea (L.) Holub

Introduced by ponds in parks, in small quantity. Much planted as the rather sickly, lime-yellow twigged 'Flaviramea' and as the red-tipped, yellow-green 'Kelseyi'. Fruits white, not purplish black as in *C. sanguinea*.

Balnacoil Lodge	NC804113	06/08/1999	BSBI
Davidson Terrace Lairg	NC588063	suburbia	10/04/2010

Tomich	NC610049	hamlet	13/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Balclaggan	NC738046	hamlet	10/09/2012
Kirkton	NC913207	hamlet	09/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Sallachy Memorial Cairn	NC547904	park	02/07/2013
Dornoch Lochans	NH777889	lochans	04/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Sallachy	NC548085	hamlet	13/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

[**Cornus mas** L. *Cornelian-cherry*]

• m 6

Recorded from Easter Ross.

Cornus suecica L. *Dwarf Cornel*

n 6

Chamaepericlymenum suecicum (L.) Asch. & Graebn.

Upland moors amongst dwarf shrubs. Frequent in the west but rare in the east.

Ben Hee		15/07/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Lairg Station	NC578041	15/07/1974	J.E. Kirby
Ben Horn		12/07/1983	BSBI
Coire na Saidhe Duibhe	NC692281	07/07/1998	Gordon Rothero
Gorm Loch Mor	NC709235	18/07/1999	Gordon Rothero

NC31 NC32 NC33 NC42 NC43 NC50 NC52 NC62 NC63 NC72 NC80 NC83 NC91 NH79

Ben Griam Mor N-facing	NC803389	crag	21/06/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	mountain ridge	13/07/2011
Meallan Liath Mor	NC400320	mountain ridge	13/07/2011
Ben Griam Beg	NC840410	mountain ridge	15/07/2011
Ben Griam Beg E side	NC830400	ridge	15/07/2011
Ben Griam Mor SW crags	NC800380	crag	15/07/2011
Creag Dhubh on Ben Griam Mor	NC800390	wet heath	15/07/2011
Beinn Dhorain upper slope	NC930153	blanket bog	09/09/2012
Ben Uarie summit heath	NC928164	summit heath	09/09/2012
Ben Uarie upper slope	NC930163	heather	09/09/2012

Ben Horn E crags	NC810624	crags	06/07/2013
Meall an Fheur Loch	NC364307	wet heath	08/07/2013
Coir an Eas Ben Armine	NC689254	wet heath	12/07/2013
Coire na Saidhe Duibhe	NC689285	crags	12/07/2013
Meall nan Aighean	NC690287	upper heath	12/07/2013
Ben Armine	NC694273	summit heath	12/07/2013
Coire na Saidhe Duibhe	NC695282	crags	12/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Creag Mhor Ben Armine	NC698240	summit heath	12/07/2013
Creag Mhor Ben Armine	NC702238	crags	12/07/2013
Ben Hee E flank	NC438327	heather	26/06/2014
Allt Coir a' Chruiteir	NC400330	upland	29/05/2014
Allt Coir a' Chruiteir	NC400340	upland	29/05/2014
Beinn Mhealaich Glen Loth	NC949152	heather	18/06/2015
Beinn Mhealaich Glen Loth	NC956152	steep heather	18/06/2015

NVC: U7; M19; H 18, 22

HYDRANGEACEAE

Deutzia scabra Thunb. *Deutzia* ● n 6

An occasional garden shrub in vc. 107, sometimes seeding into walls and pavement cracks. A long persistent garden outcast on waste ground and in hedgerows. Rare.

back of dunes Brora	NC909036	sand dunes	09/09/2012
Ferry Road Golspie	NH825996	bungalows	16/05/2015

Philadelphus coronarius L. *Mock-orange* ● n 6

A long persistent garden outcast on waste ground and in hedgerows.

NH78

Brora Golf Club	NC909039	suburbia	27/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014

Hydrangea macrophylla (Thunb.) Ser. *Hydrangea* ● n 6

A long persistent garden outcast on waste ground and in hedgerows. Rare.

School Road Dornoch	NH790898	suburbia	17/05/2015
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Hydrangea petiolaris Sieb. & Zucc. *Climbing Hydrangea* ● h 6

A popular wall plant, persistent in derelict gardens.

Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Embo	NH817928	village	23/06/2011

Wester Drumliah	NH607934	hamlet	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Front Street Embo	NH817927	village	18/05/2012
Skelbo Castle Cottage	NH793952	hamlet	08/05/2013
Hilton	NH804915	hamlet	04/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014
North Brora	NC909044	bungalows	19/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Golspie	NC832000	village	08/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

BALSAMINACEAE

[*Impatiens parviflora* DC. *Small Balsam*]

• th 7

Damp woods, waste ground, gardens, timber yards, shady places and hedge-banks.

Recorded from Easternness and the Moray coast.

Impatiens glandulifera Royle *Indian Balsam*

• th 7

Impatiens roylei Walp., nom. illegit.

Margins of rivers, streams and ditches, marshes, wet woodlands, damp shady waste ground and rubbish tips. Capable of forming impenetrable thickets on riverbanks and damp waste ground in towns; a remarkable achievement for an annual plant. Locally dominant in the verge of the A9 at Crackaig Crofts, but still remarkably local and scarce in vc. 107.

Armadale	NC789638	15/08/1978	J.K. Butler det. D. McClintock
Blarich	NC693043	20/10/1985	M. Marshall

NC60 NC80 NC91 NH78

Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
West Shinness Lodge	NC530151	hamlet	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Navidale Farm	ND041161	wetland	17/05/2012
Navidale Farm	ND042161	wetland	07/07/2013
Navidale Stream	ND042160	stream	17/06/2015
Achinduich	NC580000	hamlet	12/06/2015

NVC: W 6

Impatiens walleriana *Busy Lizzie*
Impatiens sultanii

• h 5

Grown as annuals, these perennial bedding plants used to be favourites for municipal bedding schemes. Still widely planted in private gardens. Occasional as garden outcasts, and sometimes self-sown, but killed by the first winter frosts.

POLEMONIACEAE

Polemonium caeruleum L. *Jacob's-ladder*

• hs 6

A cottage garden and herbaceous border plant that is sometimes thrown out. Occasionally self-sown on pavements near gardens.

Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Davoch Pittentrail	NC723016	garden	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Hilton of Embo	NH804915	hamlet	04/07/2013
Sleastery	NH643963	croft	09/07/2013
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Crask Inn	NC523246	hamlet	13/05/2015
Clashmore	NH745895	hamlet	17/05/2015

[Gilia capitata Sims. *Blue-thimble-plant*]

• th 6

Phlox subulata L. *Phlox*

• h 6

An uncommon perennial in herbaceous borders and cottage gardens, rarely persisting on waste ground as a garden outcast.



Clashmore	NH745895	hamlet	17/05/2015
Invershin Station	NH579953	hamlet	12/05/2015

Phlox paniculata L. *Phlox*

• h 6

A common perennial in herbaceous borders and cottage gardens, occasionally persisting on waste ground as a garden outcast.

Kildonan Lodge	NC904223	parkland	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
High CroftHilton of Embo	NH805915	hamlet	11/06/2015

PRIMULACEAE

Primula vulgaris Huds. *Primrose*

hr 2

Primula veris L. var. *acaulis* L.

Primula acaulis (L.) Hill

Woods, heaths and banks. Sometimes recorded in error for single-flowered forms of the hybrid *Polyanthus*, especially in towns and near houses. The true primrose has larger, darker green leaves, held more upright and with pink to blood-red petioles. Widespread and locally frequent.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC74 NC80 NC81 NC82 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Greenpark S of Helmsdale	ND019144	railway	11/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Leathad nan Toll Beinn	NH696959	forest roa	13/07/2010
Duchally Lodge	NC388166	riverbank	10/05/2011
Glen Cassley	NC455050	riverbank	10/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Blarich	NC695041	stream	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Loch Brora Birchwoods	NC856080	stony shore	08/05/2011
East Clyde	NC893062	stream	12/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Whiteface	NH708893	roadside	07/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Craggie road junction	NC744075	roadside	10/09/2012
Raemore Woods	NC540023	streamside	19/05/2012
Badfluich Turning	NC505015	conifer plantation	19/05/2012

Durcha	NC500023	hamlet	19/05/2012
Coill a Chnocain	NC446014	oak woodland	19/05/2012
Tutin Burn	NC436017	rocky stream	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Innisnabioraich	NC374011	riverbank	19/05/2012
R. Oykel N Bank Lubcroy	NC359018	riverbank	19/05/2012
Coill an Tosgaire	NC344049	birch woodland	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Benmore Lodge	NC321115	roadside	19/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
N Rogart	NC736032	birch wood	18/05/2012
The Bank Rogart	NC734028	birch wood	18/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Rhemusaig Rogart	NC732021	birch juniper	18/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Strath Carnaig	NH716982	birch wood	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Glen Loth	NC943118	streamside	17/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Coille Bad Mheasain	NC937132	birch wood	17/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Allt a Choire	NC915180	streamside	17/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Loist Kildonan	NC914200	railway	17/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
East Wood Achany Glen	NC572015	birch wood	16/05/2012
etc.			

NVC: W 8,10,12,22,25; H 10

Primula x polyantha Mill. = **P. vulgaris x P. veris** *False Oxlip* and *Polyanthus*
Primula x variabilis Goupil, non Touss. Bast.
Primula x tommasinii Gren. & Godron

Abundant in churchyards, occasional in wood margins, thickets and hedge-banks. Polyanthus are often planted or escaped from gardens. The 'Primrose Group' have single flowers on short or long stalks, while the 'Polyanthus Group' have several flowers in branched umbels on long stalks. In many places it is much commoner than *P. vulgaris* and is often mistaken for it. Flower colour is highly variable, from primrose yellow, through white and orange to purple or mauve.

Told from *P. vulgaris* only by careful attention to leaf shape and pubescence. The leaves are abruptly contracted to the petiole at the base in *P. veris*, gradually tapered to the base in *P. vulgaris*, and intermediate in the hybrid (and see above). The plant is covered in short straight hairs in *P. veris*, long shaggy hairs in *P. vulgaris*, and is intermediate in the hybrid. Note that although the flowers are usually borne singly on short pedicels in *P. vulgaris*, they may sometimes form an umbel on a scape, so the presence of a flower scape is not a good character for separating the hybrid. Thus, a plant with primrose rather than cowslip flowers, but short straight hairs rather than long-shaggy hairs is *Polyanthus*.

Helmsdale Station	ND020155	railway	06/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Rosehall	NC470021	village	12/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Clyde	NC896062	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Uppat Place Brora	NC903034	council houses	17/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Helmsdale	ND034152	seaside grass	05/05/2013

Braefoot Portgower	ND010135	hamlet	05/05/2013
Rosehall	NC470020	village	06/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013
Embo	NH817928	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Clashmore	NH747895	village	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
West Helmsdale	ND020157	hamlet	27/06/2014
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Camore Crescent Camore	NH777903	council houses	08/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Kinbrace	NC862317	hamlet	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Golspie S	NC824997	village	09/05/2015
Stonehouse Doll	NC888033	hamlet	11/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Overscaig Hotel	NC417232	hamlet	13/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Tarvie Cottage Balvraid	NH760951	hamlet	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

Primula veris L. *Cowslip*

• hr 4

An uncommon garden escape with us.

Dornoch	NH803888	15/07/1958	John Anthony
Brora E	NC909042	council houses	11/04/2010
Navidale	ND034167	hamlet	08/05/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Balblair	NH602930	woodland	16/05/2012
Dunrobin Street Helmsdale	ND029152	grassy bank	05/05/2013
Golspie golf course	NH822984	links	29/05/2013
Coul	NH801947	roadside	04/07/2013

Badfluich Rosehall	NC495004	hamlet	10/05/2015
Kyloag	NH660911	hamlet	08/05/2015
Little Ferry	NH805956	hamlet	14/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
West Clyde	NC905064	hamlet	14/05/2015

Primula scotica Hook. *Scottish Primrose*

hr 4 †

Damp grassy places on cliffs by the sea. Close to its global southern limit with us; the bulk of the population is on the north coast or in Caithness. Very local and rare; not seen since 1845. Old records from Ord of Caithness.

NC90

Lothbeg NC9509 1845 Ross, Mr D.

NVC: not covered, but close to MC 8

Primula denticulata Sm. *Drumstick Primula*

• hr 5



A popular bedding plant with dense globose heads of pale bluish-purple or mauve (occasionally white) flowers. Self-seeding and sometimes escaping.

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010

Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Kinbrace	NC863319	hamlet	11/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Front Street Embo	NH817927	village	18/05/2012
Pittentrail	NC726019	village	04/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
Knockarthur	NC754066	hamlet	05/05/2013
Rosehall	NC470020	village	06/05/2013
Embo	NH817928	village	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Ord Place Lairg	NC580058	council houses	10/05/2015
Rosehall	NC470021	village	10/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Lairg	NC585063	village	10/05/2015
Golspie S	NC824997	village	09/05/2015
Tarvie Cottage Balvraid	NH760951	hamlet	17/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Smithy Cottage Balvraid	NH771954	hamlet	17/05/2015
West Clyne	NC905064	hamlet	14/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

Primula vialii Delavay ex Franch. *Orchid Primrose*

• hr 5



This is the spectacular, orchid-like, two-tone primula. It is very rare to see it other than in carefully tended flower beds.

Skibo Castle S front

NH737890

parkland

11/07/2013

Primula florindae Kingdon-Ward *Giant Cowslip*

• hr 5



This is the yellow candelabra primula beloved of bog gardeners.

Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Ospisdale House	NH713897	parkland	11/07/2013

Also recorded from Easternness and the Moray coast.

Primula auricula L. *Auricula*

• hr 5

This is one of the Angus Rarities (with plain yellow flowers) but it is a very rare garden escape in vc. 107.



Invershin Station	NH579953	hamlet	12/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

Lysimachia nemorum L. *Yellow Pimpernel*

chh 5

Damp woods, banks and thickets. Told from *L. nummularia* by the pointed sepals (subulate not ovate) and by the lack of glandular dots on the leaves. The leaf tips are pointed rather than rounded. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC90 NC91 NC92 NC93 ND01 NH59
NH68 NH69 NH78 NH79

Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Craggiemore birch wood	NC735085	woodland	12/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Halmdarie Burn	NC697302	rocky stream	20/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011

Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Coire Gorm	NC360280	composite	13/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Garvault Hotel	NC793388	wet heath	15/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Big Burn car park Backies	NC837013	woodland	05/05/2013
Glen Sletdale	NC933124	flush	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Arsaig Birch Wood	NC505143	birch wood	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
PROSAMO sites Sallachy	NC560065	birch wood	02/07/2013
Sron Lom Glen Cassley	NC358208	crag	03/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Ord of Caithness	ND055173	coastal cliffs	07/07/2013
R Evelix at Achosnich	NH729935	wooded riverbank	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
etc.			

NVC: W 6,8,10

Lysimachia nummularia L. *Creeping-Jenny*

• chh 6

Damp woodland rides, stream-sides, marshes and damp grassland. Quite common as a relic of planting, as on graves in churchyards. The leaf tips and sepals have rounded (not pointed) tips, and the leaves are dotted with black glands. An uncommon garden escape. The golden-leaved cultivar 'Aurea' is a very common garden plant, occasionally found as an outcast.

Tirryside Lairg	NC572139	06/08/1999	BSBI
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NC51 NC70

Braefoot Portgower	ND010135	cottages	11/07/2010
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Portgower	ND010135	hamlet	07/09/2012

Muirfield Drive Brora	NC906043	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Skibo Castle S front	NH737890	parkland	11/07/2013
Rosehall	NC470021	village	10/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

Lysimachia vulgaris L. *Yellow Loosestrife*

• hel 7

River banks, lake-sides, clearings in wet woodlands, marshy ditches, fens. An uncommon garden escape.

Ord Place Lairg	NC578060	10/08/1976	J.E. Kirby
Linsidemore	NH537989	15/07/1987	T. Keatinge

NC50 NH59 NH78 NH79

Opposite Carbisdale Castle	NH576958	riverbank	12/07/2010
Big Burn Golspie	NC840009	woodland	07/05/2011

Lysimachia clethroides Duby. *Gooseneck Loosestrife*

• hp 7

A tall herbaceous perennial with opposite leaves and an elongated, curved spike of tiny white flowers (not in Stace).

Lysimachia ciliata 'Firecracker' *Purple Loosestrife*

• hp 7

A popular, but highly invasive, purple-leaved bedding perennial. The yellow flowers look totally out of place against the dark purple leaves.

Kinbrace	NC863319	hamlet	11/05/2011
Skibo Castle walled garden	NH737891	parkland	10/05/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Clashmore	NH747895	village	11/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Skibo Castle S front	NH737890	parkland	11/07/2013

Lysimachia punctata L. *Dotted Loosestrife*

• hp 7

Lysimachia ciliata auct., non L.

In every cottage garden and most herbaceous borders. One of the commonest and most vigorous garden plants, soon outgrowing its welcome and often thrown out as being surplus to requirements. Long persistent in ditches and on waste ground in villages and towns. Locally common as an outcast in towns and villages in the lowlands.

Kildonan Station	NC901217	03/08/1999	BSBI
NC40 NC70 NC92 ND01			
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Embo	NH817928	waste ground	11/07/2010
Rosehall	NC470021	village	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Camore	NH778903	council houses	12/07/2010
Achnairn Shinness	NC555128	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Kildonan Church	NC910207	churchyard	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Astle	NH745919	hamlet	10/05/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
West Langwell	NC696089	hamlet	22/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Crackaig Farm	NC957107	farmstead	23/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Brora Golf Course	NC910039	club house	23/06/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Schoolhouse Balvraid	NH768954	hamlet	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Rogart Station	NC724019	railway	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Clashmore	NH747895	village	11/09/2012
Doll	NC888028	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Kildonan Crossing Cottage	NC901216	abandoned garden	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012

Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Uppat Place Brora	NC903034	council houses	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Embo	NH817928	village	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
High Street Lairg	NC584063	village	02/07/2013
Sunny Bank Dornoch	NH799903	derelect garden	04/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Helmsdale	ND033153	seaside grass	07/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

Glaux maritima L. *Sea-milkwort*

h 6

Saline sandy, muddy, rocky and grassy places on the coast. Locally frequent.

NC90 NC91 NH59 NH68 NH78 NH79 NH88 NH89

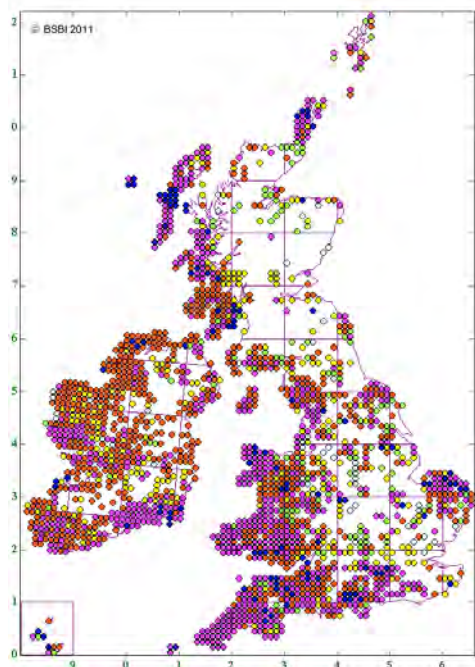
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Carnegie Golf Course W	NH727873	salt marsh	10/05/2011
Dornoch Common Good	NH800878	salt marsh	19/06/2011
Dornoch Dunes	NH806876	sand dunes	19/06/2011
Loch Fleet	NH780960	salt marsh	23/06/2011
Coul Links	NH808952	beach	23/06/2011
Dornoch Stream	NH806888	salt marsh	20/05/2012
Dornoch Common Good	NH803880	salt marsh	30/06/2013
Loch Fleet	NC804975	salt marsh	07/07/2013
Newton Point	NH711876	shingle beach	11/07/2013
Newton Point	NH713877	shingle beach	24/06/2014

Dornoch Common Good	NH804881	salt marsh	29/06/2014
Dornoch Common Good	NH800878	salt marsh	11/06/2015
Dornoch Common Good	NH802874	salt marsh	11/06/2015
N Loch Fleet	NH800971	shingle beach	12/06/2015
N Loch Fleet	NH800971	salt marsh	12/06/2015

NVC: SM 13, 15, 16-21, 23-25, 28; SD 3, 14, 15, 17

[**Anagallis tenella** (L.) L. *Bog Pimpernel*]
Lysimachia tenella L.

chh 6



Peaty bogs, marshes, wet heath, and woodland tracks with short turf. A really surprising omission from our flora. Known from West Sutherland, Caithness and Easter Ross but not from vc. 107.

NVC: M 13, 14, 24, 29; H5

Anagallis arvensis L.
Anagallis arvensis subsp. **arvensis** *Scarlet Pimpernel*
Anagallis phoenicia Scop., nom. illegit.

th 6

Cultivated fields, gardens and waste ground. Local and rare. One record from Brora in 1969.

NC90

NVC: OV 1,3,4,7,9,10,12,15,16,18,19,21,28,33

[**Anagallis arvensis** subsp. **foemina** (Mill.) Schinz and Thell. *Blue Pimpernel*]

o th 6

Anagallis foemina Miller
Anagallis arvensis L. subsp. caerulea Hartman, nom. illegit.

Arable fields and waste places. Local, rare and decreasing.

Recorded from the Moray coast.

Trientalis europaea L. *Chickweed-wintergreen*

h 5

Birch woods, heathlands, crags, streamsides and open hill country. Locally frequent. It is always a pleasant surprise to find this charismatic species enlivening an otherwise dull wet heath.

Spinningdale		15/07/1958	John Anthony
Cambusmore		15/07/1958	John Anthony
Torboll		15/07/1961	John Anthony
Auchentool		15/07/1962	John Anthony
Carrol Rock Loch Brora		15/07/1964	D.A. Ratcliffe
Balblair		15/07/1968	John Anthony
The Ord Lairg		15/07/1972	J.E. Kirby
N of Blarich		15/07/1976	M.J. Marshall
Sallachy	NC555073	12/06/1991	M.J. Crawley
Green Loch	NC722394	01/07/1998	Gordon Rothero

NC30 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC62 NC70 NC71 NC72 NC73 NC74 NC80
NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH79 NH89

Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Glen Cassley	NC468032	riverbank	10/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Loch Burn waterfalls	NC945107	woodland	08/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Salmon ladder	NH740980	birch wood	11/07/2011
Borrobol Forest	NC803255	woodland	13/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Glen Loth	NC943106	birch wood	17/05/2012
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Glen Sletdale	NC927125	bracken	01/07/2013
Creag a'Bhodaich Sletdale	NC914136	crags	01/07/2013
Glen Sletdale	NC915161	crags	01/07/2013
Glen Sletdale	NC908146	wet heath	01/07/2013
Carn Garbh Glen Sletdale	NC906142	crags	01/07/2013
Glen Sletdale	NC921124	dry heath	01/07/2013
Glen Sletdale	NC925124	stream bank	01/07/2013
PROSAMO sites Sallachy	NC560065	birch wood	02/07/2013
Cnoc na Beiste Kildonan	NC905270	dry heath	05/07/2013
Suisgill Burn Kildonan	NC902265	Juncus flush	05/07/2013
Ben Tarvie path	NH760963	dry heath	11/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Craggan Burn	NC912178	stream	20/06/2015

Craggie Birch Woods	NC881197	birch wood	20/06/2015
Allt a' Choire Mhoir	NC914175	stream	20/06/2015
Beinn Dubhain Helmsdale	NC937207	dry heath	17/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Allt Sgrigil	ND026176	upland grassland	14/06/2015
Blar Buidhe Helmsdale	NC956212	wet heath	17/06/2015

NVC: W11, 17-19; M 7, 8, 15; H 12, 16

Centunculus minimus L. *Chaffweed* th 6
Anagallis minima (L.) E.H.L. Krause

Damp bare patches on sand in heathy ground, especially preferring drives through heathy woods, and bare patches on sandy commons, often associated with *Radiola linoides* and *Lythrum portula*; very rare and decreasing.

Rovie na Craig West Pittentrail NC712027 16/09/1978 M.J. Marshall det. F.H. Perring

NC50 NC70

NVC: not recorded

Cyclamen hederifolium Aiton *Cyclamen* or *Sowbread* • h 8

Much planted in churchyards and in plantations on the larger estates. Long persistent and occasionally naturalising. Seldom as a garden throw-out. The early-spring-flowering plant is *C. coum*.

Cyclamen coum Mill. *Eastern Cyclamen* • h 2

Common early-spring garden plant used in dry shade beneath shrubs and in shady places by walls.

Skibo Castle walled garden NH737891 path 10/05/2011

[**Samolus valerandi** L. *Brookweed*] hs 6

Ditches and trenches in watery and marshy situations; very local and rare.

Recorded from the Moray coast.

ERICACEAE

Arctostaphylos uva-ursi (L.) Spreng. *Bearberry* n 6



Dry rocky places on mountains and heaths. Evergreen. Stamens with reflexed appendages that are as long as the anthers. The leaf margins are entire and hairy. Locally common.

Cnoc-an Trabhdaire		15/06/1960	JA
Ben Armine		15/07/1963	D.A. Ratcliffe
Blairich		15/07/1976	M.J. Marshall
Creag Bhreac Tressady	NC700040	16/07/1976	M.J. Marshall
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero

NC30 NC31 NC40 NC41 NC50 NC51 NC52 NC60 NC62 NC70 NC71 NC72 NC73 NC74 NC80
NC81 NC83 NC84 NC91 NC92 NC93 ND01 NH49 NH59 NH69 NH79

Migdale summit	NH652909	rocks	18/06/2011
W summit Ben Gram Mor	NC800390	gravel	21/06/2011
Biod Eag	NC780402	crag	21/06/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Ben Griam Beg	NC840410	mountain ridge	15/07/2011
Ben Griam Beg E side	NC830400	ridge	15/07/2011
Creag Dhubh	NC800390	ridge	15/07/2011
Ben Griam Mor SW crags	NC799390	crag	15/07/2011
E of Sallachy	NC520080	ridge	16/07/2011
Loch na Caillich	NC500080	ridge	16/07/2011
Creag a'Bhodaich Sletdale	NC914141	summit heath	01/07/2013
Meall a'Phioaire Sletdale	NC909125	dry heath	01/07/2013
Torrish Burn Kildonan	NC968190	streamside rocks	05/07/2013

Black Water	NC719177	streamside crag	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Allt Dail Bhaich	NC901210	stream bank	27/06/2014
Craggie Water	NC909191	rocky stream	27/06/2014
Craggie Water	NC913192	rocky stream	27/06/2014
W of Loch Fiag	NC446286	wet heath	26/06/2014
S of Loch Fiag	NC453279	wet heath	26/06/2014
Ben Bhraggie	NC817007	heather	11/05/2015
Craggie Bridge	NC913192	rocky stream	20/06/2015
Biod Eag Black Slope	NC779409	steep heather	18/06/2015
Cnoc na Tuathrach N stream	NC901347	stream	19/06/2015
Tuarie Burn	NC812201	stream	20/06/2015
Craggie Water at Craggie	NC876197	rocky stream	20/06/2015
Beinn a' Mhadaidh E summit	NC773415	summit heath	18/06/2015
Creag Thoraraidh Helmsdale	ND024174	lower screes	14/06/2015
Beinn Dubhain Helmsdale	NC937207	dry heath	17/06/2015
Creag nan Gearr	NC956244	summit heath	17/06/2015
The Pap Helmsdale	NC940212	crags	17/06/2015
Cnoc Riabhach	NC920377	summit heath	15/06/2015
Allt Cragaidh Gordonbush	NC856092	waterfalls	15/05/2015
Allt Cragaidh Gordonbush	NC861097	rocky stream	15/05/2015
Old Town Rock Strath Brora	NC854089	crags	15/05/2015
Cnoc nam Bo Riabhach	NC904395	summit heath	15/06/2015
Beinn a' Mhadaidh N summit	NC769415	summit heath	18/06/2015
Creag nan Gearr	NC952245	dry heath	17/06/2015
Blar Buidhe Helmsdale	NC956212	wet heath	17/06/2015
Cnoc Salislade Helmsdale	NC944239	dry heath	17/06/2015

NVC: CG 12, 13; H 12-17, 21

Arctostaphylos alpinus (L.) Spreng. *Arctic Bearberry*
Arctous alpinus (L.) Nied.

n 6

One of our most distinctive species of mountain tops and wind-swept summit ridges. Commonest in the west. Told from *A. uva-ursi* by its crenate (not entire) leaf margins. Deciduous, leaves red in autumn, but dead leaves persisting through the winter. Stamens with erect appendages that are shorter than the anthers. The ornate vein reticulation, seen with a lens when the leaf is held up to the light, is common to both species of *Arctostaphylos*. Locally frequent on all of our highest hills, and occasionally on hillocks at lower altitudes.



Note the crenate leaf margin of *Arctostaphylos alpinus*



Autumn colour of *Arctostaphylos alpinus*.

Ben Griam Mor		15/07/1900	ESM
Ben Griam Mor		15/07/1956	JA
Ben Hee		15/07/1964	D.A. Ratcliffe
Ben Hee		15/07/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth
Ben Uarie	NC925161	15/08/1975	J.E. Kirby
Ben Horn		15/08/1976	M.J. Marshall
W slope of Ben Griam Mor	NC795398	01/07/1998	Gordon Rothero
Coire na Saidhe Duibhe	NC692281	07/07/1999	Gordon Rothero
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero
Carn na Bo Maola	NC452096	06/07/1999	Gordon Rothero

Creag na h-Uidhe	NC384352	27/07/2010	Mark Jannink
Creag na h-Uidhe	NC386350	27/07/2010	Mark Jannink

NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC52 NC62 NC63 NC72 NC73 NC74 NC80 NC83
NC84 NC91 NC92 NC93 NH49

Ben Gram Mor	NC800390	gravel	21/06/2011
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Ben Griam Mor summit	NC803389	dry heath	21/06/2011
Ben Griam Mor NW-facing	NC797395	crag	21/06/2011
Meallan Liath Mor	NC417334	mountain ridge	13/07/2011
Ben Hee	NC423337	mountain ridge	13/07/2011
Ben Griam Beg	NC840410	mountain ridge	15/07/2011
Ben Griam Beg	NC820410	summit	15/07/2011
Ben Griam Beg	NC830410	summit	15/07/2011
Ben Griam Beg E side	NC830400	ridge	15/07/2011
Ben Griam Beg E side	NC830400	ridge	15/07/2011
Ben Griam Mor W crags	NC800380	crag	15/07/2011
Ben Griam Mor W crags	NC801389	crag	15/07/2011
Ben Griam Mor	NC800390	ridge	15/07/2011
Ben Griam Mor	NC807391	crag	15/07/2011
Ben Griam Beg	NC830400	mountain ridge	15/07/2011
Ben Griam Mor SW crags	NC801389	crag	15/07/2011
Ben Griam Mor SW crags	NC799390	crag	15/07/2011
Carn Garbh Glen Sletdate	NC899139	summit heath	01/07/2013
Ben Horn upper slopes	NC806064	dry heath	06/07/2013
Ben Horn summit ridge	NC807064	summit heath	06/07/2013
Meall an Fheur Loch	NC360318	summit heath	08/07/2013
Meall nan Aighean	NC690287	upper heath	12/07/2013
Coire na Saidhe Duibhe	NC689285	crag	12/07/2013
Coire na Saidhe Duibhe	NC695282	crag	12/07/2013
Ben Armine	NC694273	summit heath	12/07/2013
Coir an Eas Ben Armine	NC689254	wet heath	12/07/2013
Creag Mhor Ben Armine	NC698240	summit heath	12/07/2013
The Craggan	NC900165	summit heath	20/06/2015
The Craggan	NC904168	rocky heather	20/06/2015
Beinn an Eoin summit	NC388082	summit heath	28/06/2014
Ben Hee NE slope	NC420330	upland	29/05/2014
Beinn an Eoin summit	NC392083	summit heath	28/06/2014
E of Loch Fiag	NC450303	dry heath	26/06/2014
Cnoc Fodha Achatomlinie	NC665095	summit heath	13/06/2015
Beinn a' Mhadaidh N summit	NC769415	summit heath	18/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Beinn Mhealaich Glen Loth	NC961149	summit heath	18/06/2015
Cnoc an Laith-bhaid Mhoir	NC759291	summit heath	15/06/2015
Creag nan Gearr	NC952245	dry heath	17/06/2015
Biod Eag summit	NC776412	rocks	18/06/2015
Trig point Col-bheinn	NC884109	summit heath	15/05/2015
Beinn a' Mhadaidh E summit	NC773415	summit heath	18/06/2015
Biod Eag Black Slope	NC779409	steep heather	18/06/2015
Cnoc Salislade Helmsdale	NC944239	dry heath	17/06/2015

Beinn a' Mhadaidh E summit	NC771415	rocks	18/06/2015
Cnoc Riabhach	NC920377	summit heath	15/06/2015
Cnoc nam Bo Riabhach	NC904395	summit heath	15/06/2015

NVC: M19; H 14, 15, 17

Empetrum nigrum L. *Crowberry*

n 6

Empetrum nigrum subsp. **nigrum**

Peaty and rocky moors, bogs and mountain-tops. Widespread and common. Also locally abundant on sand dunes by the coast with *Juniperus communis* and *Cerastium arvense*, as at Dornoch Common Good Lands. The leaves are parallel-sided (not shallowly oval).

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH68 NH69 NH78 NH79 NH88 NH89

Loch Gaineamhach	NC515258	wet heath	11/05/2011
Glen Loth	NC945111	dry heath	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Clashmore Wood	NH757898	pine wood	09/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Wind Sock Dornoch Airfield	NH800883	sand dunes	09/05/2011
An Cnoc Buidhe	NC876282	dry heath	19/06/2011
W slope of Ben Gram Mor	NC798390	wet heath	21/06/2011
Ben Griam Mor W-facing	NC801389	crag	21/06/2011
Ben Griam Mor NW-facing	NC797395	crag	21/06/2011
One Rock	NC792399	dry heath	21/06/2011
Beinn Rosail crags	NC704406	crag	22/06/2011
Beinn Rosail summit	NC701405	dry heath	22/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Preas nan Sgiathanach	NC684097	wet heath	22/06/2011
Achnahuie	NC709080	wet heath	22/06/2011
Achnahuie	NC716072	ditch	22/06/2011
East Langwell	NC731065	dry heath	22/06/2011
Kilbraur Wind Farm	NC779070	wet heath	22/06/2011
Littleferry	NH807957	dune heath	23/06/2011
Coul Links	NH810951	sand dunes	23/06/2011
Beinn Dhorain lower slope	NC937154	wet heath	09/09/2012
Beinn Dhorain mid slope	NC933154	heather	09/09/2012
Beinn Dhorain upper slope	NC932154	heather	09/09/2012
Beinn Dhorain top	NC925156	summit	09/09/2012
Beinn Dhorain saddle	NC925160	summit	09/09/2012
Ben Uarie summit heath	NC928164	summit	09/09/2012
Doire Dubh	NC365327	dripping cliff	08/09/2012
Doire Dubh summit	NC365320	summit	08/09/2012
Creag an Sgamhlainn	NC374328	birch wood	08/09/2012
Dornoch Stream	NH803889	streamside	20/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Allt a Choire Mhoir	NC915180	streamside	17/05/2012

etc.

NVC: M 2, 3, 8, 15, 17-20; H 7, 10-14, 16-19; CG 9, 10, 13; U 2, 5, 16, 21; MC 9, 10

Empetrum nigrum subsp. **hermaphroditum** (Hagerup) Bocher
Empetrum hermaphroditum Hagerup

n 6

At higher altitudes than subsp. *nigrum* and much less frequent. The leaves have slightly curved (egg-shaped, not parallel-sided) edges. On fresh fruits, the remains of the stamens are sometimes visible at the base of the fruit. Possibly over-recorded in the past, because *Empetrum nigrum* subsp. *nigrum* is the typical species on exposed mountain ridges in vc. 107.

Ben Hee	15/07/1964	D.A. Ratcliffe
Creag na h'Uidhe	15/07/1973	A.G. Kenneth

NC31 NC33 NC40 NC41 NC43 NC52 NC72 NC82 NC83 NC84 NC92 NC93 ND01 NH79

Coire nam Mang	NC410320	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Ben Griam Mor W crags	NC800380	crags	15/07/2011
Ben Griam Beg	NC840410	mountain ridge	15/07/2011
Ben Horn E crags	NC810624	conglomerate	06/07/2013
Meall an Fheur Loch	NC362316	crags	08/07/2013
Coire na Saidhe Duibhe	NC689285	crags	12/07/2013
Meall nan Aighean	NC690285	snow-lie	12/07/2013
Ben Armine	NC694273	summit heath	12/07/2013
Coire na Saidhe Duibhe	NC695282	crags	12/07/2013
Creag Mhor Ben Armine	NC698240	summit heath	12/07/2013
Creag Mhor Ben Armine	NC702238	crags	12/07/2013

NVC: M 8, 9; H 12-22; CG 10-14; U 7, 9, 10, 11, 17

Rhododendron ponticum L. *Rhododendron*

• m 5

An invasive alien of plantations, woods and heaths on acid soils. Locally frequent and dominant in some parts of lowland vc. 107.

NC33 NC40 NC50 NC60 NC63 NC70 NC80 NC81 NC90 NC92 ND01 NH68 NH69 NH78 NH79

Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011

Lochside	NC872355	hamlet	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Overskibo ponds	NH724903	pond	14/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
Golf Course Golspie	NH826995	bungalows	08/05/2011
Shinness Lodge	NC539141	estate	11/07/2011
Gordonbush Lodge	NC844096	parkland	10/09/2012
Balclaggan	NC738046	hamlet	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Kildonan Crossing Cottage	NC901216	abandoned garden	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
etc.			

NVC: W 10,15,16

Rhododendron luteum Sweet *Yellow Azalea*

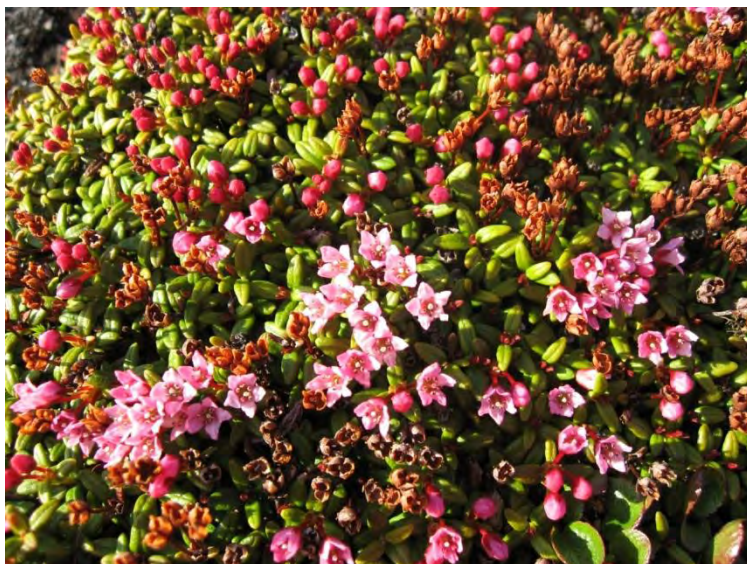
• m 4

Plantations on acid soil; self sown seedlings occur occasionally (as recorded below). The flowers are delightfully fragrant.

Merkland Lodge	NC400296	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Gordonbush Lodge	NC844097	parkland	08/05/2011
Gordonbush Lodge	NC845097	parkland	12/05/2011
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

Kalmia procumbens (L.) Galasso, Banfi & F. Conti *Trailing azalea*
Loiseleuria procumbens (L.) Desv.

nn 6



Kalmia procumbens Kim Hansen

Exposed rocky and peaty ridge-tops on the higher hills, especially in the west.

Ben Hee		15/07/1964	D.A. Ratcliffe
Creag na h'Uidhe		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Ben Griam Mor	NC790390	1977	Derek Ratcliffe
Ben Griam Beg	NC840441	1977	Derek Ratcliffe

NC31 NC32 NC33 NC42 NC43 NC52 NC62 NC63 NC83 NC84 NH49

Coire nam Mang	NC418329	mountain ridge	13/07/2011
Ben Hee	NC420320	mountain ridge	13/07/2011
Ben Griam Mor SW crags	NC800380	mountain ridge	15/07/2011
Creag Dhubh o	NC800390	mountain ridge	15/07/2011
Ben Griam Beg	NC830410	mountain ridge	15/07/2011
Ben Hee NE slope	NC420330	upland	29/05/2014 Mary Clarkson

NVC: H 13, 17, 19 CG 12, U 9, 10

[***Daboecia cantabrica*** (Huds.) K. Koch *St Dabeoc's Heath*]
Vaccinium cantabricum Hudson

• chw 7

Told from *Erica* by its much bigger individual flowers and by its alternate (not whorled) leaves.

Recorded from the Moray coast.

Calluna vulgaris (L.) Hull *Heather*

n 7

Calluna erica
Erica vulgaris L.

Locally dominant on both wet and dry heath, in woods and on acid coastal dunes. Widespread and abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: H 2,3; M 13,16,21,24; MG 5; OV 27; U 1,2,20; W 4,15,16,23

Erica tetralix L. *Cross-leaved Heath*

n 7

Wet heath, cotton-grass bogs, mires and soggy birch woods. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH68 NH69 NH78 NH79 NH89

NVC: H 2,3; M 13,16,21,24; W 4; MC 10

Erica cinerea L. *Bell Heather*

n 7

Dry heath, cliffs and heathy woodlands. Widespread and common. Almost always with *Calluna vulgaris*, but rather seldom with *Erica tetralix*.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: H 2,3; OV 27, 34; U 20; W 16; SD 12

Erica x darleyensis Bean = *E. erigena* x *E. carnea* *Darley Dale Heath*

• n 5

Many of the most popular garden cultivars are placed here.

Strath Helmsdale	ND021174	rocky stream	05/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015
Brora Golf Club	NC909039	suburbia	27/06/2014
Lairg	NC581068	council houses	10/05/2015
Grange Road Dornoch	NH800896	village	29/06/2014
Hilton of Embo	NH805915	hamlet	08/05/2015
Invershin Station	NH579953	hamlet	12/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

Gaultheria shallon Pursh *Shallon*
Gaultheria procumbens auct., non L.

• n 5

Planted as game cover or for ornament in pine woods on acid soils. An invasive pest in some woodlands further south.

NH68

Ledmore Wood	NH664893	ancient woodland	12/07/2010
Golspie Tower	NC830010	hamlet	18/05/2012
Achany Glen	NC573022	roadside	24/06/2014
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

Gaultheria mucronata (L.f.) Hook. & Arn. *Prickly Heath*

• n 5

Arbutus mucronata L.f.

Pernettya mucronata (L.f.) Gaudich. ex Sprengel

Woodland on acid soil; usually planted or outcast, occasionally self-sown, sometimes locally dominant.

NH68

Navidale N Helmsdale	ND035156	hamlet	07/09/2012
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Vaccinium oxycoccos L. *Cranberry*

n 6

Oxycoccus palustris Pers.



Bogs and very wet heaths. Very rare.

NC41 NC52 NC91 ND01

Lothbeg	NC940100	15/07/1845	D. Ross
Srath an Loin Loch Shin	NC400100	15/07/1958	BSBI
Coir' a' Bhaid Leith	NC480120	07/07/2004	BSBI
Caen Hill	ND020180	09/07/2004	BSBI
North Dalchork	NC602172	10/08/2009	Gordon Haycock

NVC: M 2, 6, 18, 19 ,21, 25

Vaccinium microcarpum (Turcz. Ex Rupr.) Schmalh. *Small Cranberry*
Oxycoccus microcarpus Turcz. Ex Rupr.

n 6



Vaccinium microcarpum Miqe Erikzén

Bogs. Told from *V. oxycoccus* by its glabrous (not minutely hairy) pedicels. Most frequent on the western parts of Borrobol, by Strath Skinsdale and on the eastern flanks of Ben Armine.

S Preas a' Chamraig	NC710274
SW Cnoc Preas an Tairbh	NC725234
NW Carn nan Ceannaichean	NC730256
N Cnoc Garbh Beag	NC734220
NE Cnoc Garbh Beag	NC738218
E Cnoc Preas an Tairbh	NC740240
SE Cnoc a' Chrom-uillt	NC740285
SE Cnoc Preas an Tairbh	NC748232

SW Cnoc an Laith-bhaid Mhoir NC750281
 Strath Skinsdale NC755219
 Strath Skinsdale NC760235

Also in the wet country to the NE of Garvault hotel by Ben Griam Mor

NE Loch Druim a' Chliabhain NC79864214

There are older records from NC50 NC72 NC74 NC93 NH79

M 19

Vaccinium vitis-idaea L. *Cowberry*
 Rhodococcum vitis-idaea (L.) Avrorin

n 6

Woods and heaths. Locally common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC52 NC60 NC62 NC63 NC70 NC71
 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC91 NC92 NC93 ND01 NH68 NH69 NH79

Ravens Rock Gorge	NC498011	woodland	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Beg E side	NC830400	ridge	15/07/2011
Ben Griam Beg E side	NC830400	ridge	15/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Creag Dhubh	NC800390	composite	15/07/2011
Ben Griam Mor W crags	NC800380	crags	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC830400	mountain ridge	15/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Beinn Dhorain lower slope	NC937154	wet heath	09/09/2012
Beinn Dhorain mid slope	NC933154	heather	09/09/2012
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Beinn Dhorain upper slope	NC932154	heather	09/09/2012
Beinn Dhorain top	NC925156	summit heath	09/09/2012
Ben Uarie summit heath	NC928164	summit heath	09/09/2012
Ben Uarie upper slope	NC930163	heather	09/09/2012
Ben Uarie wet heath	NC933159	wet heath	09/09/2012

Doire Dubh summit	NC365320	summit ridge	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Allt a Choire Mhoir	NC915180	streamside	17/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Oldtown Rock	NC860091	dry heath	05/05/2013
Delnaleish	NC868049	dry heath	05/05/2013
Killin Rock	NC870055	dry heath	05/05/2013
Killin Rock	NC862052	birch wood	05/05/2013
Cnoc na Gamhna	NC780037	dry heath	05/05/2013
Meall Odhar	NC787061	dry heath	05/05/2013
Creag a'Bhodaich Sletdale	NC914142	wet heath	01/07/2013
Glen Sletdale	NC915155	wet heath	01/07/2013
Glen Sletdale	NC915161	crag	01/07/2013
Glen Sletdale	NC902157	stream bank	01/07/2013
Creag a'Bhodaich Sletdale	NC911149	stream bank	01/07/2013
Carn Garbh Glen Sletdale	NC906142	crag	01/07/2013
Carn Garbh Glen Sletdale	NC899139	summit heath	01/07/2013
Carn Garbh Glen Sletdale	NC906134	crag	01/07/2013
Meall a'Phiobaire Sletdale	NC909125	dry heath	01/07/2013
The Hind's Corrie Sletdale	NC914117	dry heath	01/07/2013
Creag a'Chrionaich Sletdale	NC924115	dry heath	01/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Meall an Fheur Loch	NC364307	wet heath	08/07/2013
Creagandamp	NC733170	streamside crag	10/07/2013
Ben Tarvie	NH750963	crag	11/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
etc.			

NVC: M 17, 18, 19; H 10, 12, 13, 16-22

Vaccinium myrtillus L. *Bilberry*

n 4

Mountains, heaths and woods on acid sands, locally dominant. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: W 4, 10, 11, 15, 16-20; M 7, 15, 17-20; H 2, 4, 8-22; CG 10, 11, 12, 14; U 2-10, 13-21

Vaccinium uliginosum L. *Bog Bilberry*

n 4



Vaccinium uliginosum showing its characteristically-coloured blue-green leaves Leo Michels

On high, wet moors where snow patches persist longest. Occasional, most frequent in the west.

Carn Dearg		15/07/1973	A.G. Kenneth
Ben Hee		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Gorm Loch Mor	NC701238	18/07/1999	Gordon Rothero

NC31 NC32 NC33 NC43 NC52 NC62 NC63 NC72 NC83 NH49

Coire nam Mang	NC410320	wet heath	13/07/2011
Meallan Liath Mor	NC400320	snow lie	13/07/2011
Ben Hee	NC420320	snow lie	13/07/2011
Ben Hee	NC422337	mountain ridge	13/07/2011
Coire Mhadaidh Conival	NC 307203	snow lie	10/08/2012 Gordon Rothero
Meall an Fheur Loch	NC362316	crag	08/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Meall nan Aighean	NC690285	snow-lie	12/07/2013
Ben Armine	NC694273	summit heath	12/07/2013
Creag Mhor Ben Armine	NC698240	summit heath	12/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013

NVC: M 19; H 15, 17, 18, 20-22; CG 14; U 7, 9, 17

Pyrola minor L. *Common Wintergreen*

hr 6



Pyrola minor at The Mound, Golspie 20th June 2006 Peter Llewellyn.

Cliff ledges on hills and in woods. Local and uncommon. Ben More Assynt (1962), Golspie (1888).

Golspie		15/07/1888	J.F. Grant
Golspie		15/07/1959	John Anthony
Ben More Assynt		15/07/1962	D.A. Ratcliffe
Ravens Rock Gorge	NC495007	06/07/1999	Gordon Rothero
The Mound		20/06/2006	Peter Llewellyn

NC31 NC40 NC50 NC70 NC80 ND01 NH59 NH69 NH79 NH89

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2011

Shin Woods	NH575985	woodland	16/05/2012
Dornoch Wind Sock	NH800883	dune slacks	30/06/2013

Pyrola media L. Sw. *Intermediate Wintergreen*

hr 6

Rocky places on heaths. Rare. No recent records.

Invershin		15/07/1887	WC
Invershin		15/07/1888	J.F. GrantG
Ord 750ft		15/07/1959	John Anthony
Balclaggan Rogart	NC730044	31/07/1977	M.J. Marshall

NC70 NC71 ND01 NH59

NVC: H 16

Pyrola rotundifolia L. *Round-leaved Wintergreen*

hr 6

Cliff ledges on the hills. Very rare.

Ben Griam Mor	NC805389	07/08/1999	BSBI
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NC83

NVC: CG 14; U 17; M 9

Orthilia secunda (L.) House *Serrated Wintergreen*

chh 6

Ramischia secunda (L.) Gareke

Pyrola secunda L.



Orthilia secunda JC Schou

Pine woods and damp rock ledges. Local and uncommon. Cambusmore (1962).

Ben Bhraggie		15/07/1888	Grant, Mr J.F.
Golspie	NC83-00-	15/07/1893	Grant, Mr J.F.
Auchentool		15/07/1962	A.McG.S.
Loch Brora		15/07/1962	John Anthony
Gable Burn Knockfin		15/07/1962	BSBI
Blarich		15/07/1976	M.J. Marshall
Tressady		15/07/1976	M.J. Marshall
Creag Bhreac Tressady	NC706042	29/08/1976	M.J. Marshall
W of Lettie Burn Tressady	NC690050	08/07/1979	M.J.Marshall det. M. Webster
Migdale Gorge	NH650900	15/07/1979	M.J. Marshall det. M. Webster
Spinningdale Burn Migdale	NH656905	16/07/1979	M.J. Marshall
Allt a' Chnoic Ghlais	NC380181	ravine	10/07/1998 Gordon Rothero
Glen Cassley	NC357209	crags	10/07/1998 Gordon Rothero
Ravens Rock Gorge	NC495007	woodland	06/07/1999 Gordon Rothero
Tuitim Burn	NC435019	ravine	07/07/1999 Gordon Rothero

NC31 NC32 NC40 NC50 NC60 NC70 NC71 NC80 NC83 NC84 NC92 NC93 NH68 NH69 NH79
NH89

Ravens Rock Gorge	NC498011	woodland	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2011
Sron Lom Glen Cassley	NC357208	crags	03/07/2013
Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Dubh Choille Glen Cassley	NC379180	rocky stream	16/05/2015

NVC: W 18, but no record in Rodwell (1991)

Moneses uniflora (L.) A. Gray *One-flowered Wintergreen (St Olaf's Candlestick)* chh 6



Moneses uniflora in Balblair Woods 20th June 2006 Peter Llewellyn.

One of our most charismatic local rarities. Mossy leaf litter in pine woods: Balblair (1890). Very local and rare, but this is Scotland's biggest population. Also at The Mound Alder Woods (1900) beneath pines on the drier ridges, but not seen here recently.

An outstanding show at Balblair in July 2011, when the plant was exceptionally abundant (along with *Goodyera repens*) in open mossy ground under mature Scots pine on the occasion of the Botanical Society visit.

Balblair	15/07/1890	F.C. Crawford BM
Balblair	15/07/1896	F.C. Crawford E
Balblair	15/07/1897	E.S. Marshall & WAS
Balblair Wood	08/08/1897	Shoolbred, W.A. NMW

Golspie		15/07/1899	R. Lindsay K	
Balblair		15/07/1900	F.C. Crawford E, K, BM	
The Mound Alder Woods		07/07/1900	NMW	
The Mound	NH777983	15/07/1900	T.J. Foggitt BM	
Golspie		15/07/1902	G.C. Druce OXF	
Dunrobin	NC850000	15/07/1922	det. BM Littleferry 15/07/1923	
			G.C. Druce E, BM	
Balblair under fir trees		08/08/1925	Vachell, E. NMW	
The Mound wood		07/07/1923	Druce, G.C. NMW	
Balblair		07/07/1931	Foggitt, T.J. BM, HDD	
Cambusmore		07/07/1939	Hall & Wallace E, RNG	
Balblair		15/07/1960	John Anthony	
Littleferry		15/07/1960	John Anthony	
Littleferry	NH813978	15/07/1968	NCC	
Balblair	NH799976	15/07/1969	NCC	
Balblair Wood	NH799976	15/07/1969	Campbell	
Balblair	NH805977	15/07/1972	NCC	
Balblair Wood	NH805977	15/07/1984	Baines	
Balblair Wood	NH811978	15/07/1984	Baines	
Ferry Wood	NH813978	15/07/1985	Farrell, Miss L.	
Balblair Wood	NH8197	15/07/1991	Ince, S.	
Balblair Wood	NH811978	15/07/1992	Macpherson, Dr P.	
Balblair Wood	NH8197	15/07/1993	Murray, Mrs M.E.	
Balblair Wood	NH810975	15/07/1996	Symonds, F.	
Balblair Wood	NH812978	pine plantation	11/07/2010	MJC
Balblair Wood	NH814977	pine plantation	23/07/2010	Mark Jannink
Balblair Wood	NH813977	pine plantation	23/07/2010	Mark Jannink
Balblair Wood	NH802974	mossy pine wood	10/07/2011	BSBI

NC80 NH59 NH79 NH89

Balblair Wood	NH812978	pine plantation	11/07/2010
Balblair Wood	NC801974	pine plantation	07/07/2013

Recorded from the following hectares within Balblair Wood in July 2012 by Brian Harle and Gordon Young:

NH 805975, NH 805976, NH 807977, NH 807978, NH 808978, NH 809978, NH 811977, NH 812977, NH 813976, NH 813977, NH 814976

NVC: W 18, but no record in Rodwell (1991)

[*Hypopitys monotropa* Crantz *Yellow Bird's-nest*]

h 6

Pine woods on sand dunes. Local and rare.

Recorded from the Moray coast.

GARRYACEAE

Aucuba japonica Thunb. *Spotted-laurel*

• m 6

This is the common, urban-landscaping shrub with glossy, yellow green leaves with whitish spots. An essential component of old fashioned shrubberies in larger gardens. Mass-planted around office developments, industrial estates and business parks.

RUBIACEAE

Sherardia arvensis L. *Field Madder*

th 5

Rocks, short dry grassland, arable land, roadsides, dry lawns and waste ground in towns.

NC70 NC90 NC91 NH69

Marian's Rock NC747012 cliff 13/05/2011

NVC: OV 9,15

[**Asperula arvensis** L. *Blue Woodruff*]

• th 6

A bird-seed and grain alien, sometimes confused with *A. orientalis*.

Recorded from Easternness and the Moray coast.

Galium boreale L. *Northern Bedstraw*

hp 5

Damp grassy, rocky and gravelly places in the hills. Often by streams. Locally frequent.

Migdale Rock		15/07/1961	D.A. Ratcliffe
Carn Dearg		15/07/1973	A.G. Kenneth
Big Burn Golspie	NC840006	10/09/1975	J.E. Kirby
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe
Ben More Assynt	NC330200	18/07/1986	J.K. Butler & M. Murray
W slope of Ben Griam Mor	NC795398	01/07/1998	Gordon Rothero
Glen Cassley	NC357209	10/07/1998	Gordon Rothero

NC30 NC31 NC32 NC33 NC40 NC41 NC52 NC60 NC70 NC71 NC72 NC74 NC80 NC81 NC83
NC84 ND01 NH59 NH69 NH79 NH89

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Ben Griam Mor NW-facing	NC797395	crag	21/06/2011
Altass Swamp	NH504992	swamp	12/07/2011
Ben Griam Mor W crags	NC800380	crag	15/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Ben Horn E crags	NC810624	conglomerate	06/07/2013
Creag Dalfeufaig	NC703113	wet heath	07/07/2013
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013

Coill' an Tosgaire Oykel	NC340515	riverbank	09/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Beinn a' Mhadaidh S slope	NC768409	wet heath	18/06/2015

NVC: W 19, 20; CG 10-12, 14; U 17

Galium odoratum (L.) Scop. *Woodruff*
Asperula odorata L.

hp 5

Woods and shady banks. Occasional in the lowlands. A garden escape or relic in villages.

NC30 NC40 NC50 NC62 NC70 NC80 NH68 NH69 NH79

Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Ravens Rock Gorge	NC498011	woodland	12/07/2011
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Big Burn Golspie	NC840009	woodland	05/05/2013
Golspie Big Burn	NC836012	woodland	10/05/2015
Golspie Big Burn	NC834013	woodland	10/05/2015

NVC: W 8,10,12,14

[**Galium uliginosum** L. *Fen Bedstraw*]

hel 7

Fens, marshes, among rushes at the borders of ponds, water meadows, rarely in dry woods.

Recorded from Easternness and the Moray coast.

NVC: M 13,22,24,27; OV 26; S 4,18,25,26; W 1,4,6

Galium palustre L.

hel 6

Meadows, marshes, wet woodlands, ditches, pond-sides and by rivers; common and widely distributed in many habitats. Told from *G. uliginosum* by the rounded leaf tips (not mucronate) and leaves in whorls of 4 to 6 (not 5 to 8).

NC30 NC31 NC40 NC41 NC42 NC50 NC60 NC70 NC71 NC72 NC80 NC82 NC90 NC92 ND01
 NH69 NH78 NH79 NH89

Craggiemore birch wood	NC735085	woodland	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011

Lothmore gravel pit	NC970106	pond	12/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
Halmdarrie	NC696312	inbye	20/06/2011
Gernsary croft	NC730323	dry stone wall	20/06/2011
Loch Badanloch car park	NC788329	loch side	20/06/2011
Truderscaig settlement	NC704342	molinia bog	21/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Embo dune slacks	NH815935	dune slacks	23/06/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Craggie road junction	NC744075	roadside	10/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
etc.			

NVC: M 13,22,24,27; OV 26,28,35; S 3-8,10,12,14-16,18,19,22,25,26,28; W 1,4-6,8

The distribution of the two subspecies has not been worked out in detail in vc. 107, but they may be ecologically distinct and would certainly repay further study.

Galium palustre subsp. **palustre** *Common Marsh-bedstraw* hel 6
Galium witheringii Smith
Galium palustre L. subsp. *tetraploideum* Clapham

Most of the leaves are short (< 20mm) and the inflorescence is narrow and cylindrical, with pedicels less than 4mm at flowering and small flowers (the corolla is 2-3.5mm across). This is a more delicate plant than subsp. *elongatum*.

NC30 NC31 NC40 NC41 NC42 NC50 NC60 NC70 NC71 NC72 NC80 NC82 NC90 NC92 ND01
 NH69 NH78 NH79 NH89

Galium palustre subsp. **elongatum** (C. Presl) Arcang. *Great Marsh-bedstraw* hel 6
Galium elongatum C. Presl

Most of the leaves are long (> 20mm) and the inflorescence is broadly conical, with pedicels mostly more than 4mm at flowering and larger flowers (the corolla is 3-4.5 mm across). This is a more robust plant than subsp. *palustre*. Apparently much less common than subsp. *palustre*.

Embo Dunes NH810930 28/06/1999 W. Hay & W. McCarthy

NH89

Galium verum L. *Lady's Bedstraw* hp 7

Dry pastures, dunes, field borders, hay meadows and roadsides. Common in the lowlands.

NC30 NC40 NC50 NC51 NC60 NC61 NC63 NC70 NC71 NC72 NC74 NC80 NC81 NC82 NC83
 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Muie	NC669044	hamlet	13/05/2011
Rhilochan	NC743071	roadside	12/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golspie Caravan Park	NH821982	links	14/05/2011
Dornoch Airfield	NH801883	dune grassland	19/06/2011
Dornoch Airfield	NH805883	dune grassland	19/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011

Golspie Links	NH822983	sand dunes	23/06/2011
Littleferry	NH808957	sand dunes	23/06/2011
Coul Links	NH804950	dune heath	23/06/2011
Coul Links	NH810952	sand dunes	23/06/2011
E of Skelbo	NH800948	hamlet	23/06/2011
Embo sand dunes	NH815940	sand dunes	23/06/2011
Crackaig Links	NC958097	sand dunes	23/06/2011
Kintradwell Links	NC933085	sand dunes	23/06/2011
Brora Golf Course	NC912041	sand dunes	23/06/2011
Burnside	NH608926	ditch	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Ach an Fhionnfhuaraidh	NC899240	grassland	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Hill of Ord Lairg	NC577055	plantation	15/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Firth Road Bridge	NH747871	roadside	30/06/2013
Dornoch Wind Sock	NH800883	dune slacks	30/06/2013
Dornoch Common Good	NH806873	sand dune	30/06/2013
Ross Terrace Brora	NC905387	railway	01/07/2013
Coul	NH801947	roadside	04/07/2013
Coul Links	NH805951	heather dunes	04/07/2013
Dunrobin Beach Walk	NC842264	coastal grassland	06/07/2013
Navidale Farm	ND042161	wetland	07/07/2013
Creag Ach a'Bhathaich	NH706946	dry heath	09/07/2013
Creagan Dubh	NH727945	crags	09/07/2013

Meall Loch Laoigh	NH735956	dry heath	09/07/2013
Creagan na Moine	NH742945	dry heath	09/07/2013
Cnoc Dubh Beag	NH674925	dry heath	11/07/2013
Newton Point	NH711876	shingle beach	11/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
Ben Tarvie path	NH760963	dry heath	11/07/2013
Rowan Crescent Dornoch etc.	NH793899	bungalows	13/07/2013

NVC: CG 2-5; M 24; MG 1,4,5,9; U 1,20

[**Galium x pomeranicum** Retz. = **G. verum** x **G. mollugo**]

Recorded from Easternness and the Moray coast.

Galium album Mill. *Hedge Bedstraw*
Galium mollugo auct. non L.
Galium erectum Huds.

hp 6

Hedges, railway-embankments, thickets, woodland rides, grasslands and roadsides on nutrient-rich soils.

NC40 NC50 NC51 NC60 NC70 NC91 NC92 ND01 NH78

Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Clynesh Brora	NC902536	hamlet	10/07/2013

NVC: CG 3-5, MG 1; W 12,25

The distributions of the two subspecies are imperfectly known in vc. 107, but they are of doubtful utility given the degree of variability encountered.

Galium album subsp. **mollugo**

hp 6

The corolla is small (2-3mm across), the leaves are broad and the inflorescence branches at 45°. The plant is found in grassy hedge-banks.

NH78

Galium album subsp. **erectum** Syme
Galium album Miller
Galium erectum Hudson (1778), non Hudson (1762)
Galium mollugo L. subsp. *album* (Miller) Clapham, nom. inval.

hp 6

The corolla is large (2.5-5mm across), the leaves are narrow and the inflorescence is dense with its branches at less than 45°.

NC50

Galium sternerii Ehrend. *Limestone Bedstraw*

hp 6

Grassland on base-rich rocks in the hills. Local and rare.

Ben Griam Beg S side 1200ft	NC830407	15/07/1962	M. McC. Webster
W slope of Ben Griam Mor	NC795398	01/07/1998	Gordon Rothero

NC31 NC73 NC83 NC84

Ben Griam Mor W crags	NC801388	crags	15/07/2011
Creag Dhubh	NC807391	crags	15/07/2011

NVC: CG 9, 10

Galium saxatile L. *Heath Bedstraw*

hp 6

Galium hercynicum Weigel

Galium rupicola Bertol.

Short acid grasslands, heathland, open woods and rides through pine plantations; locally abundant and a conspicuous feature in the heathy districts when in flower. Widespread and abundant. Has a reasonable claim to be our commonest wildflower (perhaps with *Potentilla erecta*).

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: M 15,19; OV 27; U 1,2,4,20; W 4,10,16,23,25

Galium aparine L. *Cleavers*

th 6 ↑

Hedgerows, waste places, cultivated ground, thickets, etc. Very common in a wide range of habitats, Much increased in abundance with eutrophication of hedgerows by fertilizer drift. One of the few annual plants capable of competing with rank grasses and umbellifers. Common in the lowlands.

NC40 NC50 NC51 NC60 NC70 NC71 NC73 NC80 NC81 NC83 NC84 NC90 NC91 NC92 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: M 27; MG 1; OV 3,7-8,10,13,15,16,18,23-27,33,41; S 3-7,18,25,26,28;
W 1,5,6,8,10,12,21,22,24,25

[Galium tricornutum Dandy *Corn Cleavers*]

th 6

A *Red Data Book* species, once a widespread weed of autumn-cultivated arable fields in south-east England. Generally thought to be a poor competitor compared to *G. aparine*, it is usually confined to field margins and other places where the crop is thin. Its numbers are highly variable from year to year and it does not appear to have a large, long-lived seed bank. Told from *G. aparine* by the lack of any hooked bristles on the fruits of *G. tricornutum*.

Recorded from Easternness and the Moray coast.

[Cruciata laevipes Opiz *Crosswort*]

hp 5

Galium cruciata (L.) Scop.

Cruciata chersonensis auct., non (Willd.) Ehrend.

Hedges, woods, thickets, roadsides and rough grasslands; locally abundant but absent from considerable areas, and avoiding acid soils.

Recorded from Easternness and the Moray coast.

GENTIANACEAE

Centaurium erythraea Rafn *Common Centaury*

h 6

Centaurium umbellatum auct., non Gilib., nom. inval.

Centaurium capitatum (Willd. ex Cham.) Borbás

Centaurium latifolium (Smith) Druce

Erythraea centaurium Pers.

Dry fields, compacted grassy waste ground, heathy places, open ridings in woods, railway banks; locally common on nutrient-poor soils.

NH79 NH89

NVC: CG 2-5; U 1

Centaurium littorale (Turner ex Sm.) Gilmour *Seaside Centaury*

h 6

Centaurium minus Moench



Centaurium littorale luontoportti.com

Coastal dunes, salt marshes and sandy turf. Local and uncommon.

Dornoch Links		15/07/1962	John Anthony
Loch Fleet south shore		15/07/1962	John Anthony
Loch Fleet		10/08/1974	P. Adam
Balblair	NH812974	15/08/1976	M.J. Marshall
The Mound	NH790960	15/07/1977	Derek Ratcliffe

NC80 ND01 NH78 NH79 NH88 NH89

Dornoch Common Good	NH801879	salt marsh	13/07/2010
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes S	NH801882	sand dunes	14/07/2011
Loch Fleet at Balblair Wood	NC804975	salt marsh	07/07/2013

NVC: unclassified

Gentianella campestris (L.) Borner *Field Gentian*

hs 7

Gentiana campestris L.

Gentianella baltica sensu E. Warb. et auct., non (Murb.) Boerner

Dunes, dry open pastures and dry heathy commons. Most frequent by the sea.

The Airde Shinness	NC522139	10/08/1974	J.E. Kirby
E end Loch Tigh na Creige	NC622097	09/08/1976	J.E. Kirby
The Airde Shinness	NC5232 1383	22/07/2008	Jim McIntosh
Blackwater Balnacoil	NC8008 1295	23/07/2008	Jim McIntosh

NC30 NC31 NC40 NC50 NC51 NC60 NC62 NC70 NC71 NC74 NC80 NC81 NC82 NC83 NC92
NH59 NH69 NH79 NH89

Littleferry Loch Fleet NNR	NH801958	Cladonia heath	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Ben Griam Mor W crags	NC801388	crags	15/07/2011
Creag Dhubh	NC801389	crags	15/07/2011
Ben Griam Mor SW crags	NC801389	crags	15/07/2011

NVC: CG 10, 14

Gentianella amarella (L.) Borner *Autumn Gentian*

hs 8

Gentiana amarella L.

Gentianella amarella subsp. **amarella**

Dunes and sandy pastures near the sea. Corolla dull purple.

Golspie	NH8--9--	05/08/1897	Shoolbred, W.A. NMW
The Mound	NH773990	15/05/1982	J.K. Butler

Dornoch Links	NH800880	12/07/1983	BSBI
Achley Farm Dornoch	NH785905	09/05/1984	M.E. Murray

NC30 NC31 NC40 NC80 NC83 NC90 NH78 NH79 NH88 NH89

Dornoch Common Good	NH806881	sand dune	30/06/2013
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NVC: CG 2-5

Gentianella amarella subsp. **septentrionalis** (Druce) N. M. Pritch.

Sandy places by the sea. The corolla is creamy white, suffused purplish-red on the outside.

Benmore Lodge Loch Ailsh	NC323114	15/07/1960	E.C. Wallace
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NC31 NC80 NC90 NH89

Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Point	NH806873	sand dunes	14/07/2011
Littleferry	NH 808957	sand dunes	17/07/2012 Harle & Young

APOCYNACEAE

Vinca minor L. *Lesser Periwinkle*

• chw 3

Woods, plantations, thickets and hedge-banks; much less common than *V. major*. Told from *V. difformis* by the corolla tube less than 12mm, and from *V. major* by hairless leaf margins. Very common garden plants used for weed-suppressing ground cover, and spreading out of the garden below fences and through hedges. In towns and villages throughout but never seen far from houses.

NC70 NH89

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge C	NH610914	village	07/05/2011
Carnegie Wodland	NH732892	parkland	09/05/2011
Skibo Castle S wall	NH735891	waste ground	10/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Davoch Pittentrail	NC723016	garden	10/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Main Street Brora	NC903039	street	07/05/2013
Embo	NH817928	village	08/05/2013
Clashmore	NH747895	village	08/05/2013

Sleastary	NH643963	croft	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
West Helmsdale	ND020157	hamlet	27/06/2014
Lower Brora	NC908037	bungalows	11/05/2015
Benmore Lodge	NC321115	hamlet	12/05/2015
Lairg	NC579068	bungalows	10/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
lower Allt Sgrigil wood	ND022175	woodland	14/06/2015

Vinca difformis Pourr. *Intermediate Periwinkle*
Vinca major auct., non L.

• ch 4

An occasional garden plant

Vinca major L. *Greater Periwinkle*
Vinca herbacea auct., non Waldst. & Kit.
Vinca major L. var. *oxyloba* Stearn
Vinca major L. subsp. *hirsuta* sensu D. McClint. et auct., non (Boiss.) Stearn

• ch 4

Plantations, hedge-banks near houses and waste ground; local but increasing. Much the commonest periwinkle outside gardens (see *V. minor*). Known from the other *Vinca* spp. by its hairy leaf margins.

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Castle Street	NH794896	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Embo	NH815928	village	11/07/2010
Muie	NC669044	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
East Clyne	NC896062	hamlet	07/09/2012

Muirfield Drive Brora	NC906043	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Dunrobin Street Helmsdale	ND029152	grassy bank	05/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Embo	NH817928	village	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Dalchalm	NC911059	hamlet	19/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Pittentrail	NC726019	village	10/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Camore Crescent Camore	NH777903	council houses	08/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Little Ferry	NH805956	hamlet	12/06/2015
Muie	NC669044	hamlet	12/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Embo Dunes	NH817929	dune backs	11/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
West Clyde	NC905064	hamlet	14/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

BORAGINACEAE

[**Lithospermum officinale** L. *Common Gromwell*] hp 6

Woods, hedges, bushy places, coarse grassland and drier parts of fens on calcareous soils in small quantity; local and rare.

Recorded from Easternness and the Moray coast.

[**Lithospermum arvense** L. *Field Gromwell*] o th 5
Buglossoides arvensis (L.) I.M. Johnston

Arable fields on dry, calcareous soils. Rare.

Recorded from Easternness and the Moray coast.

Lithodora diffusa 'Heavenly Blue' *Lithodora* • h 5

On occasional rockery plant. A rare garden escape or outcast.

N Brora	NC904051	bungalows	12/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011

Church Street Golspie	NH828996	suburbia	08/05/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Lairg Station	NC583039	railway	06/09/2012
Station Terrace Brora	NC906409	terrace	07/05/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Lairg	NC579068	bungalows	10/05/2015
Clashmore	NH748895	village	08/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Clashmore	NH745895	hamlet	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Cerintho major L. *Honeywort* ● h 6

An occasional garden plant, but very rare as an outcast.

Skibo Castle S front	NH737890	parkland	11/07/2013
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

Echium vulgare L. *Viper's-bugloss* hs 6

Dunes, dry heaths, dry sandy fields, walls, calcareous pastures. Very local and rare. Some of these records may be the offspring of cultivated plants.

Helmsdale	ND028153	07/08/1999	BSBI
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ND01

Brora Golf Course	NC913043	sand dunes	11/07/2010
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012

NVC: OV 17, 25; MC 4, 5, 11

[Echium plantagineum L. *Purple Viper's-bugloss*] ● th 6

Recorded from Easternness and the Moray coast.

Pulmonaria officinalis L. *Lungwort* ● hs 3

A ubiquitous garden plant for winter and early spring flower colour; occasional as a garden escape both self-sown and as outcasts. The distribution of the different species and garden cultivars within vc. 107 has not been worked out.

NH69

Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Camore	NH778903	council houses	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Brora Harbour	NC909037	village	12/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Shinness Lodge	NC539141	estate	11/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Railway Terrace Brora	NC905040	terrace	10/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Pittentrail	NC726019	village	04/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Pittentrail	NC726019	village	10/05/2015
Rosehall	NC470021	village	10/05/2015
Golspie S	NC824997	village	09/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015

Golspie Biblical Garden NC837001 botanical garden 13/06/2015

[**Pulmonaria rubra** Schott *Red Lungwort*] • hs 3

Recorded from Easter Ross and the Moray coast.

[**Pulmonaria 'Mawson's Blue'** *Mawson's Lungwort*] • hs 3

Recorded from the Moray coast.

Symphytum L. *Comfrees*

The Comfrees are not hard to tell apart, but there has been a tendency in the past to lump the various taxa together. There is only one native species *Symphytum officinale* whose natural habitats are wet woodland margins and shady river banks. The alien species are either former crop plants like *S. x uplandicum* or herbaceous perennials escaped from gardens. The latter comprise ground cover species like *S. grandiflorum* and upright, more clump-forming kinds like *S. 'Hidcote Blue'*. To identify them, you need to inspect the ripe nutlets under high power (see below), and to pay close attention to the extent to which the leaf bases are decurrent down the stem (i.e. how many internodes down the stem do they run from the leaf axil in question). Presence of stolons separates *S. grandiflorum* and *S. 'Hidcote Blue'* from the other taxa.

Symphytum officinale L. *Common Comfrey* hs 5

Sides of rivers and brooks, rides through riverside alder woods, marshes, ponds, ditches etc. Much less common on waste ground and in dry places than *S. x uplandicum* (see below). Told by its smooth, shining (not tuberculate, dull) nutlet and by the fact that the leaves are decurrent for more than one whole internode. This is the only Comfrey found in semi-natural habitats; the others are aliens of more or less disturbed ground.

NH78 NH79

Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Dornoch Caravan Site	NH802890	waste ground	20/05/2012
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013

NVC: M 22; MG 1; OV 9,26; S 7,25; W 5

[**Symphytum officinale** x **S. tuberosum**]

Recorded from Easternness and the Moray coast.

Symphytum x uplandicum Nyman *Russian Comfrey* = **S. officinale** x **S. asperum** • hs 6
Symphytum x peregrinum auct., non Ledeb.

Waste places, roadsides, rough and damp ground, farmyards, woodland borders. Told by its shorter decurrent leaf bases (less than one internode long), nutlets with tuberculate, dull (not smooth and shiny) surface, and (from its parent *S. asperum*) by the sessile (not shortly petiolate) uppermost

leaves, and by the calyx hairs (there is a mix of broad-based and finer hairs along with all intermediates, whereas *S. asperum* has mostly broad-based whitish bristles, a few much finer smaller hairs, but lacks the range of intermediate hair sizes exhibited by *S. x uplandicum*).

NC80 NC91 ND01 NH78 NH79

Lothmore Church	NC971113	churchyard	11/07/2010
Pittentrail	NC726020	village	12/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Royal Dornoch Golf Course	NH806907	Juniper dunes	14/05/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Gartymore	ND014150	hamlet	05/05/2013
Hilton	NH804915	hamlet	04/07/2013
Davochfin	NH785893	roadside	04/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Pittentrail	NC726019	village	10/05/2015
Rosehall	NC470021	village	10/05/2015
Golspie S	NC824997	village	09/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Embo Dunes	NH817929	dune backs	11/06/2015

Symphytum x hidcotense P.D. Sell *Hidcote Comfrey*

• hs 6

Symphytum 'Hidcote Blue' hort. ex G. Thomas

= *S. grandiflorum* x ? *S. x uplandicum*

Symphytum x tauricum auct., non Willd.

The commonest garden Comfrey of herbaceous borders, but surprisingly rare as a relic or outcast. The petiole is scarcely decurrent at all. It has branched flowering stems, blue-and-white flowers with pink buds.

Navidale	ND037161	hamlet	14/06/2015
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[Symphytum asperum Lepech. *Rough Comfrey*]

● hs 6

Told from *S. uplandicum* by its calyx hairs and non-decurrent uppermost leaves (see above).

Recorded from Easternness and the Moray coast.

[Symphytum asperum x S. officinale x S. tuberosum]

Recorded from the Moray coast.

Symphytum tuberosum L. *Tuberous Comfrey*

● hs 6

A coarse creeping perennial with spiralled cymes of pendulous yellow, almost cowslip-like flowers. Told from *S. orientale* by its more divided calyx (more than halfway to the base) and yellow (not white) corolla. Told from *S. tauricum* (not yet recorded from Northern Scotland) by the presence of rhizomes and by its unbranched stems and sessile (not petiolate) middle and upper stem leaves.

NC80 NC83 NH68 NH78

Clashmore	NH747895	village	10/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Big Burn Golspie	NC840009	woodland	07/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Carnegie Wodland	NH732892	parkland	09/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S terrace	NH736890	parkland	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Kildonan Lodge	NC904223	parkland	17/05/2012
Clashmore	NH746895	roadside	17/05/2015
Kildonan Lodge	NC904222	parkland	17/06/2015

Symphytum grandiflorum DC. *Creeping Comfrey*

● hs 3

Symphytum ibericum Steven

This is the ground-covering Comfrey useful for carpeting unsightly shaded areas. Long persistent in wild gardens. Found on banks and shady waste ground near houses as a garden outcast or escapee. The inflorescences are unmistakable: they start out as cymes of red-tipped buds, then open to pale yellow flowers. Its leafy stolons distinguish it from all the other Comfrees except for the blue-flowered *S.* 'Hidcote Blue'.

Symphytum orientale L. *White Comfrey*

● hs 4

Rough grass and waste ground; uncommon but increasing. Told by non-decurrent petiolate leaves, its dull tuberculate nutlets, white corolla, included corolla scales and calyx divided less than halfway to the base.

Big Burn Golspie	NC840009	woodland	07/05/2011
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Myosotidium hortensium (Decne.) Baill.

• hs 5

Like a massive *Myosotis* with crinkly, *Plantago-major*-like leaves.

Dunrobin Castle	NC851008	parkland	17/05/2012
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Brunnera macrophylla (Adams) I.M. Johnston. *Great Forget-me-not*

• hs 4

Myosotis macrophylla Adams*Anchusa myosotidiflora* Lehm.*Brunnera myosotidiflora* (Lehm.) Steven

An uncommon garden outcast on rough ground and hedge-banks in villages.

Pittentrail	NC726020	village	12/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Pittentrail	NC726019	village	10/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015

Anchusa arvensis (L.) M. Bieb. *Bugloss*

o th 6

Lycopsis arvensis L.

Shingle beaches, dry arable fields, usually on sandy soils. Locally frequent in the lowlands.

NC50 NC70 NC80 NC90 NC91 ND01 NH59 NH78 NH79 NH88 NH89

Wester Lonemore	NH758877	shingle beach	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Dornoch Common Good	NH806873	sandy beach	30/06/2013
Hilton	NH804915	hamlet	04/07/2013
Cyderhall Farm Cuthill	NH764892	arable	04/07/2013
Carn Liath	NC867013	lane	05/07/2013
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Achinchanter Dornoch	NH800903	disturbed ground	21/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015

NVC: OV 3-5, 9, 17

Pentaglottis sempervirens (L.) Tausch ex L.H. Bailey *Green Alkanet*

• hs 5

Anchusa sempervirens L.

One of the most successfully naturalized of all the herbaceous perennial garden escapes. It forms extensive, single-species patches in sun and partial shade on waysides and waste places on dry soils near houses. Now one of our most frequent alien species, it varies in abundance from place to place, but is virtually ubiquitous in towns and villages, often to be found in an out-of-the-way corner of a churchyard where the grass is mown less frequently.

Culgower		15/08/1962	John Anthony
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NC51 NC80 NC90 NC91 ND01 NH68 NH69 NH78 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Clashmore	NH747895	village	10/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011
Kirkton	NH799986	farmstead	10/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Helmsdale	ND026154	village	05/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Upper Gartymore	ND015150	hamlet	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Lairg	NC579068	bungalows	10/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Laundry Road Lairg	NC586063	industrial	12/06/2015
A9 at Lothmore	NC972117	roadside	14/06/2015

Borago officinalis L. *Borage*

• th 6

Grown in every herb garden, and many a window box, but more for its strange blue flowers than for “dispelling melancholy and inducing euphoria”. The leaves are useful for adding to cold drinks in summertime. Waste ground near and about villages, roadsides, allotments; a sporadic casual rather than a naturalized species with us.

Lonemore	NH764884	hamlet	11/07/2010
Camore	NH778903	council houses	12/07/2010
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Portgower	ND010135	hamlet	07/09/2012

Golspie Biblical Garden	NC837001	botanical garden	07/09/2012
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Mertensia maritima (L.) Gray *Oysterplant*

h 5

On coastal shingle. Very rare. Dunrobin Castle (1903), Loth (1965), Helmsdale (1845). No recent records despite repeated search of the sites mentioned below, and almost certainly extinct in vc. 107.



Sutherland	no detail	15/07/1821	Hooker, Sir W.J., Borrer, Mr W
Lothbeg	NC9509	1845	Ross, D.
Helmsdale to Ord	ND01	1845	Ross, D.
Dunrobin, nr	NC80	1849	Hancock, J.
Dunrobin, nr	NH89	1849	Hancock, J.
Golspie	NC80	1901	Aldridge, E.G.
Golspie	NH89	1901	Aldridge, E.G.
Golspie	NH89	1902	Druce, G.C.
Loth Beach	NC91	1965	Morrison, M.
Loth	NC975115	1965	Morrison, M.
Lothmore Beach	NC975108	1965	Webster, M.McC.
Brim's Ness	NC715040	1982	Muscott, J.
Kintradwell Links	NC936089	1983	Keatinge, T.
Golspie-Little Ferry	NH89	1986	Marshall, M.J.
Ballinreach	NC935090	1987	Cranna, L.

NC70 NC80 NC90 NC91 ND01 NH89

NVC: SD 3

Amsinckia micrantha Suksd. *Common Fiddleneck*
Amsinckia intermedia auct., non Fischer and C. Meyer
Amsinckia menziesii auct., non (Lehm.) Nelson and J.F. Macbr.
Amsinckia calycina auct., non (Moris) Chater

• th 5



A wool, grain, bird-seed, carrot-seed, grass-seed and linseed alien. Also in the seedbank of transported top soil. There must have been a marked improvement in the effectiveness of seed cleaning in the late 1920s. Local and rare, but exhibiting something of a come-back in recent years.

There was a superb population at Hilton of Embo (below) in July 2013 in a large consignment of topsoil that had been used to landscape the grounds of a newly-built house. The origin of this light, sandy soil is unknown, but quantities had been transferred to nearby gardens (as at Highcroft B&B next door) along with its seed bank.

Academy Street Brora	NC904044	paving	26/06/2013
Hilton of Embo	NH804915	soil pile	04/07/2013
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Achinchanter Dornoch	NH800903	disturbed ground	21/06/2015
Deans Park Dornoch	NH792895	soil pile	11/06/2015

NH69

[**Asperugo procumbens** L. *Madwort*]

• th 5

Waste ground, rare by railways.

Recorded from Easterness and the Moray coast.

Myosotis L. *Forget-me-nots*

These plants fall naturally into two groups: the wetland species have straight, closely appressed hairs on the calyx, while the dry land species have spreading hooked hairs on the calyx. Subsequent critical determination really requires inspection of the nutlets under high power, but most of them can be identified accurately in the field. One of the most difficult separations is between large flowered forms of *M. arvensis* and small flowered forms of *M. sylvatica* (see below). The really important distinctions to make are between the dry land annuals *M. discolor* and *M. ramosissima* and the wetland biennials *M. laxa* and *M. secunda*.

Myosotis scorpioides L. *Water Forget-me-not* hel 5
Myosotis palustris (L.) Hill, nom. illegit.

Sides of rivers, brooks and ponds, and in wet places. Told from *M. secunda* and *M. laxa* by its long style (often exceeding the calyx lobes at flowering, but not exceeding the petals) and by its equilateral (short sided) triangular calyx lobes.

NC30 NC40 NC41 NC50 NC51 NC52 NC60 NC70 NC82 NC90 NC91 NC92 ND01 NH69 NH78
 NH79 NH89

Loch Evelix	NH745876	lakeside	10/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Deans Park Dornoch	NH791896	new housing	18/06/2011
Ballinreach	NC932083	swamp	23/06/2011
A9 verge at Ballinreach	NC932087	roadside	23/06/2011
Burnside	NH609926	lane	09/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
R Evelix at Cuthill Bridge	NH748878	riverbank	04/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013

NVC: A 5; M 22,27; MG 10,13; OV 28,29,32,35; S 3-6,12,14,15,22,23,25,26,28; W 1,5,6

Myosotis secunda Al. Murray *Creeping Forget-me-not* hel 5
Myosotis repens Don ex Borrer, non Moench

Wet heathy and peaty places, and margins of ponds on acid soils. Told from *M. scorpioides* by its short style (shorter than the calyx lobes at flowering) and by its isosceles (long sided) triangular calyx lobes, and from *M. laxa* by the lower stem with spreading (not appressed) hairs.

NC30 NC31 NC40 NC41 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71 NC72 NC73
 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH69 NH78 NH79
 NH89

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Loanboadich	NH608944	grassland	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Phone Exchange Borrobol	NC878264	roadside	19/06/2011

Gernsary croft	NC730323	dry stone wall	20/06/2011
Truderscaig settlement	NC704342	molinea bog	21/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Achneluachrach	NC679098	farmstead	22/06/2011
Achnahuie	NC716072	ditch	22/06/2011
Tulloch	NH613925	ditch	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Kildonan birch wood	NC909204	birch wood	09/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Glen Sletdale	NC919124	stream bank	01/07/2013
Glen Sletdale	NC902157	stream bank	01/07/2013
Creag a'Bhodaich Sletdale	NC911149	stream bank	01/07/2013
Carn Garbh Glen Sletdale	NC908136	dry heath	01/07/2013
Creag a'Chrionaich Sletdale	NC924115	dry heath	01/07/2013
Crofters Monument	ND013153	ditch	01/07/2013
Torrish Burn Kildonan	NC968190	streamside rocks	05/07/2013
Upper Suisgill Kildonan	NC897250	streamside	05/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
West Rearquhar	NH732931	grassland	09/07/2013
West Rearquhar	NH732931	roadside	09/07/2013
Loch Buidhe	NH657982	stony shore	09/07/2013
Coill' an Tosgaire Oykel	NC340051	riverbank	09/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
etc.			

NVC: M 23, 29, 35

Myosotis laxa Lehm. *Tufted Forget-me-not*

Myosotis laxa subsp. **caespitosa** (Schultz) Hyl. ex Nordh.

Myosotis caespitosa Schultz

hel 5

Pond-sides, wet marshy places on nutrient-rich mud, and on damp heaths; locally common but much less widely distributed than *M. scorpioides*, from which it is told by its short style (shorter than the calyx lobes at flowering) and by its isosceles (long sided) triangular calyx lobes. Told from *M. secunda* by the lower stem with appressed (not spreading) hairs. Absent from the interior, but frequent in the lowlands.

Rogart 15/07/1961 M. McC. Webster

NC30 NC40 NC41 NC50 NC60 NC61 NC70 NC71 NC73 NC74 NC80 NC82 NC83 NC84 NC90
NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011

NVC: M 22; OV 26,30; S 4,12,14,15,19; W 5

Myosotis sylvatica Hoffm. *Wood Forget-me-not*

hs 5

A classic cottage garden plant, often grown as an under-planting for tulips in spring bedding schemes. Very common as a garden escape in woodland, hedgerow and waste ground which makes it impossible to be sure of any putative native locations. Large-flowered *M. arvensis* are often mistaken for this species. The critical diameter of the flower is 5mm: if the flowers are larger than this, they are *M. sylvatica*, and if they are smaller then they are *M. arvensis*. Murphy's Law predicts that the flower you are looking at is exactly 5mm diameter. In this case, ask whether the petals are flat (*M. sylvatica*) or concave (*M. arvensis*).

NC91 NC92

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Astle	NH745919	hamlet	10/05/2011

Ferry Road Golspie	NH826997	terrace	08/05/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Helmsdale	ND026154	village	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Embo	NH817928	village	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Clashmore	NH747895	village	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Sleastary	NH643963	croft	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Dalchalm	NC911059	hamlet	19/06/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Rhives Farm Golspie	NC827005	woodland	11/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Ord Place Lairg	NC580058	council houses	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Golspie	NC832000	village	08/05/2015
Pittentrail	NC726019	village	10/05/2015
Rosehall	NC470021	village	10/05/2015
Kildonan Lodge	NC904222	parkland	17/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Lairg	NC584063	village	13/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Westgarty Lodge	NC988123	woodland	14/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
West Langwell	NC698088	hamlet	13/06/2015
Park Terrace Brora	NC905040	village	13/06/2015

NVC: W 8

Plants with **white flowers** were recorded from:

Front Street Embo	NH817927	village	18/05/2012
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Myosotis arvensis (L.) Hill *Field Forget-me-not*

o th 4

Myosotis scorpioides L. var. *arvensis* L.

Myosotis annua Moench

Woods, cultivated fields, hedge-banks, waste-ground, fallow fields, set-aside, paths and gardens; very common and generally distributed. Flowers blue, less than 6mm diameter, often only 3mm, with concave (not flat) corolla lobes.

NC30 NC50 NC51 NC60 NC70 NC71 NC72 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92
ND01 NH59 NH68 NH69 NH78 NH79 NH89

Shinness Lodge	NC530150	hamlet	13/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Overskibo Curling Pond	NH727902	pond	14/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Spinningdale	NH675897	waste ground	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Golspie Links	NH822983	sand dunes	23/06/2011
Embo	NH817928	village	23/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Kintradwell Links	NC933085	sand dunes	23/06/2011
Cuthill Links	NH748863	shingle	24/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
etc.			

NVC: OV 1,3,4,9,10,12,15,19,21,24,25,33

Myosotis ramosissima Rochel

Early Forget-me-not

th 4

Myosotis collina auct., non Ehrh. ex Hoffm.

Myosotis hispida Schldl.

Myosotis ramosissima Rochel subsp. *globularis* (Samp.) Grau

Bare places in dry grassland, sandy heaths, dunes, walls and arable fields; The young flowers are blue, the corolla tube is shorter than the calyx, the calyx teeth are spreading at maturity, the cymes are much longer at maturity than the leafy part of the stem, and the nutlets are pale brown with truncate bases (see below for the contrasting features of *M. discolor*). Local and rare. Golspie, Brora.

NC80 NC90

Brora Industrial Estate	NC905041	waste ground	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013

NVC: OV 27; U 1; SD 7, 8; MC 5; CG 7

Myosotis discolor Pers. *Changing Forget-me-not*

th 5

Myosotis collina Ehrh. ex Hoffm.

Myosotis versicolor (Pers.) Smith

Myosotis discolor Pers. subsp. *dubia* (Arrond.) Blaise

Bare places in dry grassland on acid soils, dry sandy heaths, banks, walls, and as an arable weed on acid sandy soils, long-lived in the seedbank beneath grassland. The young flowers are creamy yellow, the corolla tube is twice as long as the calyx, the calyx teeth are almost erect at maturity, the cymes are not much longer at maturity than the leafy part of the stem, and the nutlets are dark brown with rounded bases (see above for the contrasting features of *M. ramosissima* which is its ecological equivalent on dry calcareous soils). Unpalatable to rabbits and hence locally frequent in heavily grazed turf. Widespread and common.

NC30 NC31 NC32 NC40 NC42 NC50 NC51 NC60 NC70 NC71 NC73 NC74 NC80 NC81 NC82
NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Camore Wood	NH771894	gravel pit	11/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Rhian Breck	NC599048	hamlet	13/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Marians Rock	NC747012	cliff	13/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Rhinamain	NH610938	hamlet	18/06/2011
Spinningdale	NH675897	waste ground	18/06/2011
Royal Dornoch car park	NH800894	waste ground	18/06/2011

Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
An Cnoc Buidhe	NC876282	dry heath	19/06/2011
Achneluachrach	NC679098	farmstead	22/06/2011
Dunrobin Glen	NC813039	roadside	22/06/2011
Coul Links	NH801949	sand dunes	23/06/2011
Coul Links	NH804950	dune heath	23/06/2011
Coul Links Ferry ruins	NH806953	car park	23/06/2011
Drumlich	NH608931	ruined croft	09/07/2011
W of Mound Rock	NH767993	poached ground	10/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Dunrobin Castle garden wall	NC852008	stonework	17/05/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
Hilton	NH804915	hamlet	04/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Dalchalm	NC909054	gravel	19/06/2015
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Helmsdale Station Yard	ND023155	waste ground	17/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Balblair	NH799973	hamlet	12/06/2015
Kinbrace Station platform	NC862316	compacted gravel	16/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Kinbrace Cemetery	NC859313	cemetery	16/06/2015
Kildonan Station approach	NC901217	compacted gravel	17/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015
Brora Industrial Estate	NC901034	grassland	14/06/2015

NVC: OV 1; U 1

Omphalodes verna Moench *Blue-eyed-Mary*

• hs 3

A garden plant whose main virtue is its tolerance of dry shade. Persistent in woodland and hedgerows as a garden outcast. Over-recorded in the past for *Brunnera macrophylla*.

[**Cynoglossum officinale** L. *Hound's-tongue*] hs 6

Sand, shingle and dry waste ground.

NVC: CG 6; W 12

Recorded from Easternness and the Moray coast.

Phacelia tanacetifolia Benth. *Phacelia* • th 6

This beautiful blue flowered plant is increasingly popular as a conservation crop, used for reducing soil fertility. The plant is extremely good at sucking nutrients like nitrogen, phosphorus and potassium out of the soil, and when it is harvested and carted away, the levels of these nutrients are permanently reduced. It is also very popular with bee-keepers.

Embo	NH817928	village	23/06/2011
Coul	NH801947	roadside	04/07/2013

CONVOLVULACEAE

[**Convolvulus arvensis** L. *Field Bindweed*] hp 6

A weed of cornfields, grasslands, cultivated ground, gardens, waste places, roadsides, railway-banks. Uncommon.

Recorded from Easternness and the Moray coast.

NVC: CG 3; MG 1; OV 3,8,12-15,18,19,21,22,26

Calystegia sepium (L.) R. Br. *Hedge Bindweed* hp 7

Convolvulus sepium L.

Calystegia sepium subsp. **sepium**

Hedges wood margins, damp thickets, fen carr, mesh fencing and waste ground on damp soil. You can see the sepals between the non-overlapping bracteoles. Local in the lowlands. The commonest bindweed with us.

NC50 NC63 NC70 NC80 NC82 NC91 ND01 NH69 NH78 NH89

Altass Swamp	NH504992	swamp	12/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012

Brora Bridge	NC905039	village	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
between the bridges Helmsdale	ND026152	riverbank	07/07/2013
Witches Pool Royal Dornoch GC	NH800892	pond	08/07/2013
Argyll Street Dornoch	NH978896	square	13/07/2013
West Helmsdale	ND020157	hamlet	27/06/2014
Station Road Golspie	NH828998	suburbia	14/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015

NVC: M 22,27; OV 13,25,26,27,30,42; S 4-6,13,25,26,28; W 5,21

[**Calystegia x lucana** (Ten.) G. Don = **C. sepium x C. sylvatica**]
 Convolvulus x lucanus Ten.

Recorded from Easternness and the Moray coast.

Calystegia pulchra Brummitt & Heywood *Hairy Bindweed* ● hp 7
 Convolvulus dahuricus sensu Walters & D. Webb, non Herbert
 Calystegia dahurica sensu Walters & D. Webb, non (Herbert) Don
 Calystegia sepium (L.) R. Br. subsp. pulchra (Brummitt & Heyw.) Tutin, nom. inval.

Garden hedges, fences and waste ground; rare.

Lairg Road Bonar Bridge NH609917 steep bank facing river 06/09/2012

Also recorded from Easternness and the Moray coast.

Calystegia silvatica (Kit.) Griseb. *Large Bindweed* ● hp 7
 Convolvulus silvaticus Kit.
 Calystegia sylvestris (Waldst. & Kit. ex Willd.) Roemer and Schultes
 Calystegia sepium (L.) R. Br. subsp. silvatica (Kit.) Battand.

Hedges near houses, gardens and waste ground in towns; uncommon. Told by its overlapping bracteole segments (you can not see the sepals between them, as you can in *C. sepium*).

Achrimsdale NC909067 hamlet 07/09/2012
 Centre Street Golspie NH831999 mews 07/09/2012

NC50 NC80 NC90 NC91 ND01 NH89

[**Cuscuta campestris** Yunck. *Yellow Dodder*] ● p 7

On various cultivated plants, especially carrots.

Recorded from Easternness and the Moray coast.

SOLANACEAE

Lycium barbarum L. *Duke of Argyll's Teaplant* ● n 6
Lycium halimiifolium Miller

Hedges and fences in and about villages. Scarcely naturalized. Corolla divided to about half way, calyx 4mm.

E Helmsdale ND031154 07/08/1999 BSBI

ND01

coast path N of Helmsdale ND040155 coastal grassland 17/06/2015
Park Terrace Brora NC905040 village 13/06/2015

[**Lycium chinense** Mill. *Chinese Teaplant*] ● n 6
Lycium barbarum auct., non L.

Corolla divided to more than half way, calyx 3mm, much confused with *L. barbarum* and probably under-recorded. You need to measure the calyx very precisely. The jizz is of a plant with larger, broader leaves.

Recorded from Easternness and the Moray coast.

[**Atropa belladonna** L. *Deadly Nightshade*] hp 6

Disturbed ground and track-sides in woods on dry soils. Also, rare and sporadic in gardens and waste places. Locally common where it occurs, but absent from many apparently suitable habitats.

Recorded from Easternness and the Moray coast.

Hyoscyamus niger L. *Henbane* ○ hs 6 †

Roadsides, disturbed waste ground, bare places in woods and stone pits. Rare and sporadic, usually on nutrient-rich soils. A sinister, malodorous species, possessed of legendary seed longevity. The seeds can survive burial for many decades (perhaps even for centuries in the foundations of old buildings) then spring up again as soon as the soil is disturbed. Close to ancient buildings where it is a relic of medicinal cultivation. Waste ground at Golspie in 1899. No recent records.

NC80 NH89

Nicandra physalodes (L.) Gaertn. *Apple-of-Peru* ● th 6
Atropa physalodes L.

Petals pale sky blue with a white centre; fruit a brown berry encased in a horned, papery calyx.

Datura stramonium L. *Thorn-apple* ● th 7
Datura tatula L.

Demolition sites, waste ground, rubbish tips and rich garden soil; local and sporadic. Possessed of an exceptionally long-lived seed bank, which means that it can appear following soil disturbance many years after it was last seen at a site.

Distillery Road Brora NC903054 11/08/2003 B. Wallace

NC90 NH59

Eiden Rogart NC734008 disturbed ground 14/09/2014 Morven Murray

[***Physalis peruviana*** L. *Cape-gooseberry*] • h 7

A very uncommon bird-seed and grain alien. Told by its green (not orange-red) fruiting calyx and (from *P. ixiocarpa*) by its dense pubescence and cordate (not rounded or cuneate) leaf bases. Petals dull yellow with a purple-black base.

Recorded from the Moray coast.

[***Capsicum annum*** L. *Sweet Pepper*] • th 7

Two kinds of peppers are commonly grown: the large, hollow *Bell peppers* (also known as *Sweet Pepper* or *Pimento*) grown to be eaten raw in salads or cooked, and the small *Chilli peppers* (also known as *Hot peppers*, *Jalapeno* or *Cayenne*) used as hot spices. Bell peppers are typically eaten without the seeds, with the consequence that *Capsicum* seeds are thrown out onto compost heaps with culinary waste in considerable numbers. The seeds of Chilli peppers are used to increase the heat of curries and Mexican dishes.

Solanum lycopersicum L. *Tomato* • th 6
Lycopersicon esculentum Mill.

Occurs occasionally on sewage filter beds, waste ground, rubbish tips, picnic areas, railway ballast, manure heaps, and sewage refuse but it seldom over-winters and it is not permanent. The seed survives passage through the human digestive tract and hence the plant is common on the cinder beds of sewage farms. Often found as a throw-out on rubbish tips and compost heaps, and growing from kitchen drains where seeds washed down the sink have lodged. Locally frequent in towns and villages throughout. Modern molecular genetic studies showed that the genus *Lycopersicon* is not distinct from *Solanum*, and should be sunk within it.

River Street Dornoch NH798895 bungalows 11/09/2012

[***Solanum rostratum*** Dunal *Buffalo-bur*] • th 7

A wool, grain and bird-seed alien or oil-seed casual, told from *S. sisymbriifolium* by the absence of glandular hairs and yellow (not white or purplish) corolla. It is very distinctive when leafless in senescence because the whole plant, including the fruits, is covered in golden spines.

Recorded from Easternness and the Moray coast.

[***Solanum nigrum*** L. *Black Nightshade*] th 7
Solanum nigrum subsp. ***nigrum***

Cultivated ground, especially in rich garden ground or manured soil. Local, and absent from a considerable area of the county, and chiefly occurring in the vicinity of the larger towns and more frequent in the south of our area. Damp arable fields, gardens, tips and disturbed ground. Long lived in the seed bank beneath grassland.

NVC: OV 4,7-9,13,14,19; S 8

Recorded from Easternness and the Moray coast.

[*Solanum sarachoides* Sendtn. *Leafy-fruited Nightshade*]

• th 7

Solanum nigrum auct., non L.

Solanum chenopodioides auct., non Lam.

Solanum physalifolium auct., non Rusby

Solanum nitidibaccatum auct., non Bitter

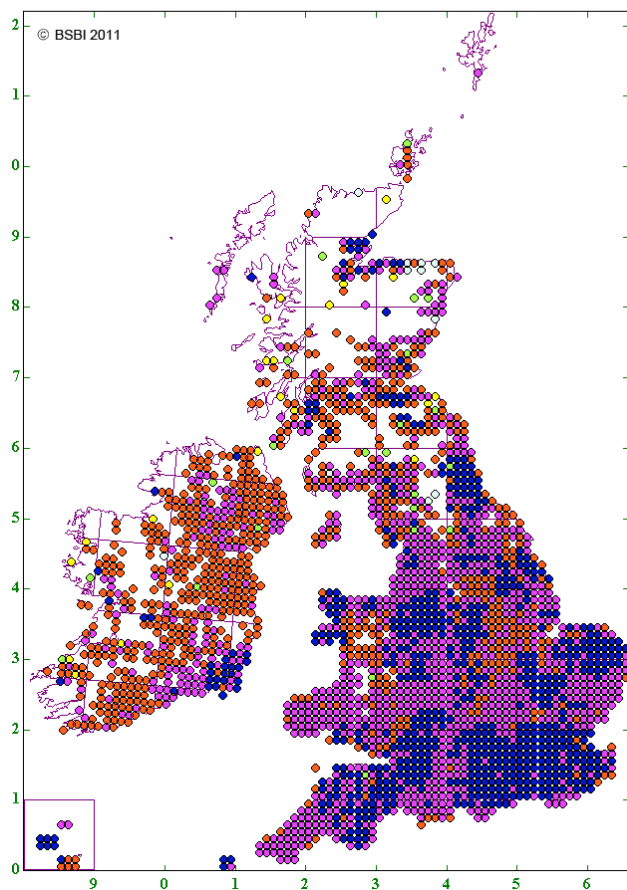
Recorded from Easternness and the Moray coast.

NVC: OV 14

Solanum dulcamara* L. *Bittersweet

chw 6

Hedges in damp situations, by rivers and brooks; abundant and widely distributed. Hedges, fen carr, lake-sides, swamps and waste ground. Occasional. Common in towns on damp shady brickwork, and occasionally dominant on wet waste ground. The leaves are often holed by the beetle *Ochrosia ventralis*. The current northern mainland limit of this common British plant is in vc. 107 (below):



Bonar Bridge	NH612916	15/09/1964	John Anthony
Bonar Bridge	NH612916	15/07/1979	M. McC. Webster

NH59 NH68 NH69 NH78 NH89

Lonquish Road Junction	NH644919	waste ground	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Glasloch Links N Brora	NC912060	stream	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Drumlian Road Bonar Bridge	NH606924	council houses	12/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Brora Golf Course	NC915058	links	12/05/2011
Bonar Bridge	NH610914	village	07/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011

Kirkton	NH799986	farmstead	10/07/2011
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015

NVC: M 22; OV 26,27,30,41; S 3-8,10,12-15,18,22,23,25,26,28; W 1,5,6,24

Solanum jasminoides 'Album' Paxt. *Potato Vine* ● h 7

This is the common white-flowered climber of gardens. It is rare as a garden escape.

Solanum crispum Ruiz and Pav. *Chilean Potato Tree* ● h 7

This is the popular, blue-flowered climber of gardens, often grown as the cultivar 'Glasnevin'. Very uncommon as an escape.

Camore	NH778903	council houses	12/07/2010
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Solanum tuberosum L. *Potato* ● g 6

A garden outcast and throw-out with culinary waste on compost heaps and garden rubbish tips throughout the area. Occasionally found on grassy waste ground and in hedge-banks, but never far from houses, except on lane-sides in arable areas where potatoes are grown commercially, and have been spilled in transit from the field to the farm.

NC90 ND01

Languish Road Junction	NH644919	waste ground	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Rogart Station	NC724019	railway	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Kilmaree	NH799982	hamlet	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Well Street Dornoch	NH799893	cottages	04/07/2013
Achosnich	NH726939	croft	09/07/2013
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Borrobol Lodge	NC871264	cultivated ground	17/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015

Nicotiana tabacum L. *Tobacco* ● th 6

The petiole is unwinged (cf. *N. rustica*) and the corolla is widened at the distal end for about one quarter of its length (cf. *N. alata* where the wider part of the corolla is less than one eighth of the total length).

Kildonan tip at Dalbhat NC902212 dump 18/06/2015

[**Nicotiana alata** Link and Otto *Sweet Tobacco*] • th 6

Nicotiana x sanderae W. Watson = **N. alata x N. forgetiana** • th 6

Intermediate in all its characters, and grown in a wide range of flower colours. An occasional garden stray or outcast. The uppermost anthers are inserted about half way down the tube (not clearly in the apical or basal parts as in the parents), and the flowers are wider at the mouth (c. 50mm) than in *N. forgetiana* (25 – 40mm).

Cavaig North Brora	NC894041	hamlet	10/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012

[**Nicotiana forgetiana** Hemsl. *Red Tobacco*] • th 6

Told from *N. alata* (which also has the wider part of the corolla less than one eighth of the total length) by the filaments being inserted in the basal half of the corolla tube (rather than in the apical half).

[**Nicotiana rustica** L. *Wild Tobacco*] • th 6

Known by its winged petioles. Formerly grown for smoking and to obtain nicotine for use as an insecticide.

Petunia x hybrida (Hook.) Vilm. *Petunia* • th 6

A ubiquitous garden plant grown in summer bedding schemes, hanging baskets and window boxes. Frequent as a throw out on waste ground, and occasionally self-sowing in cracks in the pavement, most often beneath hanging baskets outside pubs in towns.

Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Clashmore	NH747895	village	11/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Academy Street Brora	NC900044	bungalows	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012

Ord Place Lairg	NC579059	council houses	06/09/2012
Golspie Sea Front N end	NH833998	terrace	06/07/2013

OLEACEAE

Jasminum nudiflorum Lindl. *Winter Jasmine* ● m 1

A common garden plant, producing yellow flowers right through the winter time, but rare as a garden outcast and not self-sown.

Main Street Dornoch	NH798895	street	10/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
River Street Dornoch	NH798895	bungalows	11/09/2012
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Kyloag	NH660911	hamlet	08/05/2015

Jasminum officinale L. *Summer Jasmine* ● m 7

A popular white-flowered wall-climber. Persistent relic on walls, and a rare outcast on waste ground. Much less vigorous than *Solanum jasminoides* 'Album'.

Ospisdale House	NH713897	parkland	11/07/2013
Lower Brora	NC908037	bungalows	11/05/2015

Forsythia x intermedia hort. ex Zabel *Forsythia* ● m 3
Forsythia x suspensa auct., non (Thunb.) M. Vahl

In virtually every garden, often as part of a hedge; very conspicuous when in flower in early spring. Occasionally thrown out and long persistent on waste ground, but not commonly self-sown.

Cnoc-An-Lobht Dornoch	NH794898	suburbia	10/04/2010
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015

Fraxinus excelsior L. *Ash* mm 4

Woods, hedges, thickets, riverbanks, parks and waste ground; rather common and generally distributed except on the heathy ground.

NC30 NC40 NC50 NC51 NC60 NC70 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92
ND01 NH59 NH68 NH69 NH78 NH79 NH89

Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Blarich	NC695041	stream	13/05/2011

Pittentrail	NC727020	woodland	12/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Loch Brora Birchwoods	NC856080	stony shore	08/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
East Clyne	NC893062	stream	12/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Dalchalm	NC909056	village	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Rhianrivach	NH629929	hamlet	13/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Whiteface	NH708893	roadside	07/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Spinningdale	NH675897	waste ground	18/06/2011
Inchomnie	NC748062	hamlet	22/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Drumlich	NH608931	ruined croft	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Wester Drumlich	NH607934	hamlet	09/07/2011
Burnside	NH609926	lane	09/07/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
etc.			

Syringa vulgaris L. *Lilac*

• m 5

Plantations, waste ground and hedges, in small quantity but sometimes far from houses. In virtually every garden, often as part of the hedge. Common on waste ground in towns and villages, in landscaping schemes, on roadside banks, where gardens back onto railways, and in municipal developments. Leaves marked by the blotch mine of *Gracilaria syringella*.

NC50

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churtyard	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Invershin Station	NH580953	railway	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Clynekirkton ruins	NC894060	churtyard	12/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Kildonan Farm	NC910209	farm	11/05/2011
Bonar Bridge	NH610914	village	07/05/2011
Rhianrivach	NH629929	hamlet	13/05/2011
Rhivaig Overskibo	NH724895	hamlet	07/05/2011
Overskibo	NH729895	hamlet	09/05/2011
Astle	NH745919	hamlet	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Wester Drumlich	NH607934	hamlet	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012

Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Crackaig Crofts Lothmore	NC964111	ruins	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Gruids	NC566039	hamlet	16/05/2012
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Ross Terrace Brora	NC905038	railway	01/07/2013
High Street Lairg	NC584063	village	02/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Achosnich	NH726939	croft	09/07/2013
Rosehall	NC470022	village	09/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

Ligustrum vulgare L. *Wild Privet*

• m 6

These records all need to be confirmed. The young stems should be minutely hairy.

NC50 NC70 NC90 NC91 NH78 NH89

Ligustrum ovalifolium Hassk. *Garden Privet*

• m 6

This is the universal hedging plant in towns and villages throughout the county. Much the commonest Privet seen near houses and on waste ground. Seldom in shade or in woodland, and rarely self-sown. Told from *L. vulgare* by its glabrous (not minutely pubescent) young stems and panicle branches.

Helmsdale Station	ND020155	railway	06/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Crackaig Farm	NC957107	farmstead	23/06/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012

Sutherland Street Helmsdale	ND028154	old walls	09/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Strath Helmsdale	ND022171	roadside	05/05/2013
Helmsdale Station	ND023154	railway	05/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Ord Place Lairg	NC580058	council houses	10/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

VERONICACEAE

Digitalis purpurea L. *Foxglove*

hs 6

Heaths, dry open woods, commons and bushy places on acid soils. Locally common, but evincing a decided preference for sandy or gravelly soil. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
NH68 NH69 NH78 NH79 NH89

Duchally Lodge	NC388166	riverbank	10/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Badintagairt Glen Cassley	NC428102	croft	10/05/2011
March Cottage Glen Cassley	NC444067	croft	10/05/2011
Glen Cassley	NC455050	riverbank	10/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Blarich	NC695041	stream	13/05/2011
Pittentrail	NC726020	village	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011

R Brora Balnacoil	NC804110	river gravel	12/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Ascoile Glen Brora	NC824107	stream	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Loch an Ruathair	NC871357	loch side	11/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Clynelish Moss Glen Brora	NC880051	cotton grass bog	08/05/2011
East Clyne	NC893062	stream	12/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Kildonan Church	NC910207	churchyard	11/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Kilphedir Lodge R Helmsdale	NC989186	stream	11/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
N Helmsdale	ND026156	village	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Rhianrivach	NH629929	hamlet	13/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Overskibo ponds	NH724903	pond	14/05/2011
Skibo Castle N drive	NH728869	parkland	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Carnegie Golf Course	NH739871	links	10/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
etc.			

NVC: OV 27; U 20; W 6,8,10,14,16,22-25

Erinus alpinus L. *Fairy Foxglove*

• chh 5

A common rockery plant, sometimes thrown out and surviving on open stony waste ground and occasionally self-seeding on old walls. Rather uncommon in Sutherland.

Cnoc-An-Lobht Dornoch	NH794898	suburbia	10/04/2010
Ospisdale House	NH713897	old walls	11/07/2013

Veronica officinalis L. *Heath Speedwell*

chh 4

Dunes, heaths and woods. Widespread and common

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
NH68 NH69 NH78 NH79 NH88 NH89

Camore Wood	NH771894	gravel pit	11/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Glen Cassley	NC468032	riverbank	10/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
East Clyne	NC893062	stream	12/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Gordonbush Lodge	NC844096	parkland	10/09/2012
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Culdrain	NC739043	oak woodland	18/05/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Glen Loth	NC943118	streamside	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Craggie Water	NC899189	stream bank	27/06/2014
Badintagairt Glen Cassley	NC427097	wet grassland	28/06/2014
Craggie Water	NC889189	stream bank	27/06/2014
Meall na Tulchainn S flank	NH652986	dry heath	25/06/2014
Meall na Tulchainn S flank	NH652989	wet heath	25/06/2014
Craggie Water	NC909191	rocky stream	27/06/2014
A389 Braemore Grudie Burn	NC543026	roadside	24/06/2014
Carnegie Road Sidhean Mor	NH645966	grassland	25/06/2014
Dalbhat on the Craggie road	NC898210	track	27/06/2014
Craggie Road	NC888206	track	27/06/2014
The Mound Crags	NH762983	crags	12/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Craggie Water at Craggie	NC876197	rocky stream	20/06/2015
Tuarie Burn	NC812201	stream	20/06/2015
Sallachy	NC548085	hamlet	13/05/2015
Maovally Mast	NC384219	open ground	13/05/2015
Creag Thoraraidh Helmsdale	ND033184	upper slopes	14/06/2015
Creag nan Gearr	NC956244	summit heath	17/06/2015
Cnoc Salislade Helmsdale	NC944239	dry heath	17/06/2015

Balblair Wood	NH803976	conifer plantation	12/06/2015
Blar Buidhe Helmsdale	NC956212	wet heath	17/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Beinn Dubhain Helmsdale	NC937207	dry heath	17/06/2015

NVC: OV 21; U 20; W 23; H 18

Veronica montana L. *Wood Speedwell*

chh 4

This relatively uncommon species is an indicator of ancient oak, beech, ash and alder woods on nutrient-rich soils. The stems are hairy all round (not in 2 lines) and the petioles are longer than 6mm. Local and rare.

Tomich Burn Lairg NC597055 30/06/1997 M.E. Murray det. J.K. Butler

NC50 NC91 NH78

Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Westgarty Lodge Culgower	NC988123	woodland	14/06/2015

NVC: W 6,8

Veronica scutellata L. *Marsh Speedwell*

hel 6

Peaty and marshy places, bogs, grassy hollows and ditches on heaths, and loch margins on acid soils. Racemes only 1 per node. Told at once by its narrow, *Epilobium*-like leaves and pale pink flowers.

NC31 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC63 NC70 NC71 NC72 NC73 NC74 NC80
NC81 NC82 NC83 NC90 NC91 NC92 NC93 ND01 NH68 NH69 NH78 NH79

Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Strath Fleet	NC623056	roadside	10/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Buidhe	NH657982	stony shore	09/07/2013
N of Braemore Grudie Burn	NC548031	inbye grassland	24/06/2014

NVC: S 23; M 8, 23, 38

Veronica beccabunga L. *Brooklime*

hel 5

Ditches, muddy margins of ponds, shallow streams and a wide range of wet places in full sun. Frequent in the lowlands. Leaves with a short petiole.

NC31 NC40 NC60 NC70 NC80 NC90 NC91 ND01 NH68 NH78 NH79 NH89

Dornoch The Meadows	NH799893	suburbia	10/04/2010
Glaslochan Links N Brora	NC912060	stream	11/07/2010
Rhian Breck	NC599048	hamlet	13/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Tulloch	NH613925	ditch	09/07/2011
Mound Rock	NH770980	stream	11/07/2011
Torboll Farm S	NH750980	stream	11/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
West Shinness Lodge	NC529153	hamlet	13/05/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015

NVC: A 8,17; M 22; OV 26,32; S 7,14,23

Veronica anagallis-aquatica L. *Blue Water-Speedwell* hel 6

Margins of rivers, streams, ponds and ditches on nutrient-rich mud. Upper leaves sessile. Very local and rare. No recent records.

NH78

NVC: S 27

Veronica pinguifolia Hook.f. *Page's Hebe* ● n 4

This is a popular rockery plant, used for carpeting with its grey leathery leaves. Seedlings are occasionally found on walls and pavements.

Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013

[**Veronica peregrina** L. *American Speedwell*] ● th 4

An alien unintentionally distributed by the horticulture trade as a weed in plant pots: locally common in nurseries and garden centres, and spread about in containerised plants. Usually found as a garden weed on gravel paths or on compacted ground.

Recorded from Easternness and the Moray coast.

Veronica serpyllifolia L. *Thyme-leaved Speedwell* chh 4
Veronica serpyllifolia subsp. *serpyllifolia*

Damp waste ground, paths and other compacted places in sun or partial shade, trampled lawns, cultivated ground, wet pastures, woodland rides, water meadows, moist heaths, roadsides; frequent almost everywhere.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
 NC71 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68
 NH69 NH78 NH79 NH89

Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Burnside	NH609926	lane	09/07/2011
Skelbo Wood	NH731943	plantation	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680030	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
West Merkland	NC384329	disturbed ground	08/09/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel N Bank Lubcro	NC359018	riverbank	19/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Glen Loth	NC943118	streamside	17/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
etc.			

NVC: most surprisingly, there are no data in Rodwell (a common native species without a home). The preponderance of composite records (above) does not help in narrowing down the niche of this plant.

Veronica serpyllifolia subsp. **humifusa** (Dicks.) Syme chh 5

Rock ledges, flushes and wet gravel in the mountains. Local and uncommon.

Ben More Assynt

15/08/1964

D.A. Ratcliffe

NC31 NC32 NC83 NH79

[**Veronica repens** Clarion ex DC. *Corsican Speedwell*]
Veronica reptans D.H. Kent nom. illeg.

chh 4

Told from *Veronica serpyllifolia* subsp. *humifusa* by the fact that its pedicels are longer than the bracts and the flowers are larger (8-12mm across rather than 6-10mm). An uncommon lawn weed.

Recorded from Easterness and the Moray coast.

Veronica longifolia L. *Garden Speedwell*

• hs 6

This is the common herbaceous border plant. Under-recorded because of confusion with *V. spicata*. They are told apart by the leaves which are widest in the basal third in *V. longifolia* and have sharply serrated edges, but widest in the middle third with crenate edges and obtuse teeth in *V. spicata*. An occasional garden outcast or self sown close to the (planted) parents.

Bonar Bridge	NH611911	suburbia	12/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Skibo Castle walled garden	NH737891	paths	10/05/2011
Rogart Station	NC724019	railway	10/07/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Helmsdale Station	ND023155	railway	17/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

Veronica hederifolia L. *Ivy-leaved Speedwell*
Cochlidiosperma hederifolia (L.) Opiz

Veronica hederifolia subsp. **hederifolia**

○ th 3

Waste and cultivated ground, especially in light, sandy fields, hedge-banks and garden soil. This is the common subspecies in vc. 107, and has short pedicels (2 to 4 times the length of the calyx), the anthers are blue, and the plant grows in full sun. The leaves have dumpy apical lobes (the terminal lobe is wider than long).

Dornoch	NH804893	15/07/1956	John Anthony
Helmsdale	ND025153	15/07/1957	John Anthony

NC80 ND01 NH78 NH88 NH89

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Pittentrail	NC726020	village	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
N Helmsdale	ND026156	village	08/05/2011
Helmsdale Riverside	ND026154	woodland	08/05/2011

Bonar Bridge C	NH610914	village	07/05/2011
Spinningdale	NH674896	woodland	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Helmsdale	ND026154	village	05/05/2013
Skelbo Castle	NH792951	ruins	08/05/2013
Embo	NH817928	village	08/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Ospisdale House	NH713897	parkland	11/07/2013
Achinchanter Dornoch	NH800903	disturbed ground	21/06/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015

NVC: OV 24

Veronica hederifolia subsp. **lucorum** (Klett and Richt.) Hartl ○ th 3
Veronica hederifolia L. var. *lucorum* Klett and H. Richter
Veronica sublobata M. Fischer

This subspecies is much less common, and grows in shade (e.g. in damp woods on nutrient-rich soils). It has long pedicels (3.5 to 7 times the length of the calyx), and the anthers are whitish (not blue). The apical lobe of the leaf is longer than wide (but not by a great deal).

Spinningdale	NH674896	woodland	10/05/2011
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Veronica filiformis Sm. *Slender Speedwell* ● chh 4

Lawns, roadsides, river banks and churchyards, preferring calcareous soils. This common lawn weed seldom if ever sets seeds. It is dispersed as shoot fragments which root on contact with the soil, and is spread on footwear and on shared lawn mowers. It has the distinction of being one of the only alien plants to have a joke made about it: Sinker (1985) alleges that he was told that in Shropshire the plant was called "Sin" because it was so attractive and so prevalent. Uncommon in towns and villages in the lowlands.

Dornoch	NH798895	15/07/1966	John Anthony
Bonar Bridge	NH610916	18/07/1979	M. McC. Webster

NC70 NC80 NC82 NC91 ND01 NH69 NH79

Brora Harbour	NC909037	village	12/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Navidale Cemetery	ND041161	wetland	17/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
River Street Dornoch	NH799893	bungalows	17/05/2015

Veronica agrestis L. *Green Field-speedwell* ○ th 1

Cornfields, garden-ground, waste places, heaths, wall-tops. Flowers solitary in leaf axils; the face of the fruit is hairless and the margin has long, patent glandular hairs. Occasional in the lowlands.

Bonar Bridge NH610910 15/07/1979 M. McC. Webster

NC42 NC63 NC70 NC73 NC82 ND01 NH69 NH78

Brora Golf Club NC909039 suburbia 27/06/2014

NVC: OV 4,13; U 1

[Veronica polita Fr. *Grey Field-speedwell*] ● th 1
Veronica didyma

Cultivated ground in arable fields, gardens, rubbish tips and on walls; "Flowers solitary in leaf axils; the face of the capsule is covered with hooked bristles as well as patent glandular hairs.

Recorded from Easternness and the Moray coast.

NVC: OV 7,10,13,15,16,19; U 1

Veronica persica Poir. *Common Field-speedwell* ● th 1
Veronica tournefortii Gmel.
Veronica buxbaumii Tenore

Much the commonest Speedwell of cultivated and waste ground over most of Britain; a hugely successful alien invader. First record 1825 (in error as *V. filiformis*); first correctly published record 1854. Frequent in the lowlands, most often on waste ground in vc. 107.

NC50 NC51 NC71 NC73 NC80 NC82 NC90 ND01 NH59 NH69 NH78 NH88 NH89

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Dunrobin Castle stone walls	NC850007	stonework	06/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Achinchanter Dornoch	NH800903	disturbed ground	21/06/2015
Borrobol Lodge	NC871264	cultivated ground	17/06/2015

NVC: OV 1,3,7-10,12,14-16,18,19,33

Veronica chamaedrys L. *Germander Speedwell* chh 4

Acid grassland, hedge-banks, borders of woods, waste ground, roadsides; common and widely distributed. The hairy-ball galls, so abundant on shoot tips in many years, are caused by the gnat *Papilla veronica*. Easy to recognize by the distinct, opposite lines of hairs on its lower stem. Widespread and abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC50 NC51 NC60 NC61 NC62 NC63 NC70 NC71 NC72
 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78
 NH79 NH88 NH89

NVC: CG 2-4; MG 1,5,6; OV 10,18,24; U 1,20; W 8,10,12,22-24

Veronica arvensis L. *Wall Speedwell*

th 3

Heaths, walls, cultivated ground, dry banks, open grassland and turfy ground. Common and generally distributed. Told from *V. agrestis* by the form of the inflorescence: the flowers are in terminal racemes (not solitary in leaf axils) and are therefore subtended by bracts rather than by leaves (compare leaf and bract shape). The tiny flowers are the deepest shade of blue.

NC30 NC31 NC40 NC42 NC50 NC51 NC60 NC70 NC71 NC73 NC80 NC81 NC82 NC83 NC84
 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Invershin Station	NH580953	railway	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Rogart Church	NC738035	churchyard	12/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Balvraid Wood	NH775940	plantation	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Oykel Bridge E	NC390000	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dalnessie	NC631152	hamlet	16/07/2011
Inchcape	NC690030	roadside	16/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Dornoch Coastguard Station	NH802892	open ground	20/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013

Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Glashbuie North Brora	NC903053	derelict building	05/07/2013
Carn Liath Broch	NC870013	ruins	05/07/2013
Golspie High Street N end	NC837002	terrace	06/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Brora Industrial Estate	NC905041	waste ground	07/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Fiag Lodge green roof	NC454281	bare ground	26/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Coastguard Station Dornoch	NH802892	waste ground	08/05/2015
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Laundry Road Lairg	NC586063	industrial	12/06/2015
Kinbrace Cemetery	NC859313	cemetery	16/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Kinbrace	NC862317	hamlet	16/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

NVC: OV 1,3,4,9,10,12,22-24,39; U 1

Hebe Comm. ex Juss *Hedge Veronicas*

This genus has now been sunk within *Veronica*.

Extremely popular evergreen garden shrubs from New Zealand and southern South America. In contrast to south-west Britain (Devon, Cornwall, Isles of Scilly, Isle of Man, etc.), *Hebe* does not really naturalise in vc. 107, but they do sometimes survive for a long time as garden outcasts on waste ground, or in places where they were planted in hedgerows or on banks. In the old days, most *Hebe* outside gardens were recorded as *H. x lewisii*, whatever they actually were. Of the 36 taxa grown in Silwood (below) the 5 most commonly seen outside gardens, ranked from largest (chest high) to smallest (ankle high) are these: *H.* ‘Midsummer Beauty’ is a large plant with very long racemes of lilac-purple flowers and long willow-like leaves, *H. x franciscana* ‘Blue Gem’ is the classic hedging veronica with shorter, rounded leaves and racemes not much longer than the leaves (this is the only one that might be said to be “close to naturalised” with us), *H. brachysiphon* ‘White Gem’ is our only common large, white-flowered bush, *H.* ‘Red Edge’ is a low-growing plant, easy to identify from its short (2cm) grey leaves with red edges, and *H. pinguifolia* ‘Pagei’ is a prostrate, grey-leaved carpeting plant with small white flowers, used as ground cover in landscaped business parks in towns.

Veronica (Hebe) spp. Unidentifiable seedling records (all taxa)

Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Veronica pinguifolia G. Forst. *Koromiko*

• n 7

Self seeded in walls and on pavements

Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Veronica salicifolia G. Forst. *Koromiko*

• n 7

Hebe salicifolia (G. Forst.) Pennell

Leaves 70-120mm x 7-15mm linear lanceolata and acuminate.

Railway Terrace Brora	NC905040	garden	10/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Embo	NH817928	village	08/05/2013
Hilton	NH804915	hamlet	04/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Dalchalm	NC909054	gravel	19/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

Veronica x franciscana Eastw. *Hedge Veronica*

• n 7

Hebe x franciscana (Eastw.) Souster*Hebe x speciosa* auct., non (R. Cunn. ex Cunn.) Cockayne and Allan

On waste ground in towns and occasionally planted on banks in villages. Leaves 30-90mm x 10-25mm. Self sown on walls, but the seedlings are usually impossible to identify beyond the genus.

Front Street Embo	NH817927	village	18/05/2012
Sutherland Street Helmsdale	ND026154	stone steps	09/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Braefoot Portgower	ND010135	hamlet	05/05/2013
Lower Brora	NC908037	bungalows	11/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015

Antirrhinum majus L. *Snapdragon*

• hp 7

On old walls, pavement cracks and waste ground in towns and villages. A very common bedding plant and an abundantly self-seeding cottage garden plant. Often escaping and naturalising on derelict land in towns and on old walls, where the individual plants live much longer than they do under cultivation. In towns and villages throughout.

Brora E	NC909042	council houses	11/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Embo	NH815928	village	11/07/2010
Rosehall	NC470021	village	12/07/2010
Ferry Road Golspie	NH826997	terrace	08/05/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Glenelg	NC737050	hamlet	10/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

[*Chaenorhinum minus* (L.) Lange *Small Toadflax*]

o th 5

Linaria viscida

Antirrhinum minus L.

Microrrhinum minus (L.) Fourr.

Cultivated ground and waste places, particularly fond of railway ballast

NVC: OV 15

Recorded from Easter Ross and the moray Coast

[*Misopates orontium* (L.) Raf. *Lesser Snapdragon* or *Weasel's-snout*]

o th 7

Antirrhinum orontium L.

Dry, nutrient-poor arable fields, allotments and gardens. Something of a rarity, and seldom in quantity.

Recorded from the Moray coast.

NVC: OV 4,9

Cymbalaria muralis P. Gaertn., B. Mey. & Scherb. *Ivy-leaved Toadflax*

• chh 5

Linaria cymbalaria (L.) Miller

Cymbalaria muralis subsp. **muralis**

Old limestone walls, cracks in paving, on mortar in old brickwork of walled gardens, dank alleyways in towns and on the estate walls of grand country houses (but not, apparently, at Dunrobin Castle).

Golspie	15/07/1962	M. McC. Webster
Littleferry	15/07/1962	John Anthony

NC80 NH89

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Main Street	NH798895	street	10/04/2010
Dornoch Cathedral	NH797897	churchyard	10/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Skibo Castle wall	NH736890	gardens	09/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Gordonbush Lodge	NC845961	walled gardens	05/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015

Golspie	NC832000	village	08/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Little Ferry	NH805956	hamlet	14/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

NVC: OV 22,23,42

Linaria maroccana Hook. f. *Annual Toadflax* • th 6

An occasional bedding annual, sold in a range of hot colours. A rare casual of disturbed soil in rough grassy places with red or orange flowers.

Linaria vulgaris Mill. *Common Toadflax* hp 8

Waste ground, pavements, railway banks, roadsides and rough grasslands. Local and rare. Sometimes long persistent at a location, sometimes ephemeral. White flowered individuals are seldom found outside gardens. Uncommon in the lowlands, always close to houses. Late-flowering. Possibly declined in abundance.

Lairg	15/07/1956	M. McC. Webster
The Mound	15/07/1956	John Anthony
Torrigh	15/07/1962	John Anthony
Lairg	15/07/1962	John Anthony

NC50 NC60 NC70 NC84 NC91 NC92 NH78 NH79 NH88

Rosehall	NC470021	village	12/07/2010
Academy Street Brora	NC901043	cottages	13/07/2011
Academy Street Brora	NC900044	bungalows	09/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Academy Street Brora	NC902044	dry banks	07/07/2013
Academy Street Brora	NC903044	bungalows	13/06/2015

NVC: OV 16

Linaria purpurea (L.) Mill. *Purple Toadflax* • hp 6
Antirrhinum purpureum L.

Old walls, railways, pavements and dry waste ground. A frequent garden escape, readily establishing itself if undisturbed. Commonest in towns. Pink flowered individuals occur occasionally.

ND01

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010

Golspie Main Street	NH831999	street	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Pittentrail	NC726020	village	12/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Embo	NH817928	village	23/06/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Rogart Station	NC724019	railway	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Achrimsdale	NC909067	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
The Brdge Bonar Bridge	NH610915	old walls	06/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Helmsdale	ND026154	village	05/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013

Castle Street Dornoch	NH794897	village	08/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Ross Terrace Brora	NC905387	railway	01/07/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
High Street Lairg	NC584632	village	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Lower Brora	NC908037	bungalows	11/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
Fanich	NC879037	hamlet	11/05/2015
Lairg	NC581068	council houses	10/05/2015
Pittentrail	NC726019	village	10/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

NVC: OV 22, 42

Linaria repens (L.) Mill. *Pale Toadflax*
Antirrhinum repens L.

o hp 6 †

Calcareous arable fields, railway banks, cinder tracks, walls and dry stony ground. Very local and rare.

above Brora River 15/07/1973 A.J. Suter

NC80

Crackaig Crofts Lothmore NC965114 hamlet 13/07/2011

PLANTAGINACEAE

Plantago coronopus L. *Buck's-horn Plantain*
Plantago sabrinae (E.G. Baker and Cardew) Druce

hr 5

Sea cliffs, dry sandy pastures, compacted bare ground, paths on heaths, and salted roadsides. Locally common near the coast.

NC30 NC80 NC90 NC91 NH59 NH78 NH79 NH89

Little Ferry	NH804957	hamlet	08/05/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Little Ferry	NH806956	hamlet	07/05/2013
Little Ferry	NH805956	hamlet	14/05/2015
Little Ferry	NH805956	hamlet	12/06/2015

NVC: OV 2, 23, 41; U 1; SM 17, 22; SD 1, 7, 8, 14, 19; MC 1-8, 10, 11

Plantago maritima L. *Sea Plantain*

hr 5

A plant with three niches: a coastal plant of salt marshes, sea-cliffs and dunes; an unland plant of heathy grasslands; and a roadside salt adventive. In this latter niche, it replaces other more familiar salt-tolerators like *Cochlearia danica* and *Plantago coronopus*, forming a near solid strip, 20cm wide, along mile after mile of Sutherland's single-track roads.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC60 NC63 NC70 NC71 NC74
NC80 NC81 NC82 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH78 NH79 NH88
NH89

Dornoch Academy	NH789899	roadside	10/04/2010
West Merkland	NC384329	stream	13/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
A839 watershed	NC521017	wet heath	10/05/2011
N of Colaboll Loch Shin	NC553113	wet heath	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Blarich	NC695041	stream	13/05/2011
Creag nan Laogh (160m)	NC706410	wet heath	11/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
N Portgower	ND013137	roadside	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Carnegie Golf Course W	NH727873	salt marsh	10/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Dornoch Common Good	NH794882	salt marsh	09/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Balblair Loch Fleet	NH804973	salt marsh	08/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH806907	Juniper dunes	14/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
Royal Dornoch Golf Course	NH812915	links	14/05/2011
Golspie Caravan Park	NH821982	links	14/05/2011

Birichen	NH765923	roadside	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Oykel Bridge E	NC390000	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Ben Hee	NC422337	mountain ridge	13/07/2011
Ben Hee	NC424338	mountain ridge	13/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
Alltnacaorach Loch Shin	NC506181	wet heath	08/09/2012
West Merkland	NC384329	hamlet	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Dornoch Stream Saltmarsh	NH806888	salt marsh	20/05/2012
Royal Dornoch Golf Club	NH803893	sand dune	20/05/2012
Royal Dornoch quarry	NH806895	quarry	20/05/2012
Raemore/Gruids Woods	NC558035	roadside	19/05/2012
Coille Sron Na Croiche	NC455013	pinewood	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
etc.			

NVC: SM 6, 11-26, 28; SD 3, 8, 17; MC 1-3, 5, 8-10; OV 34; MG 11, 12; CG 8-14; M 10, 11, 13, 31; H 5-8, 10, 20

Plantago major L. *Greater Plantain*

hr 5

Plantago major subsp. **major**

Pastures, waysides, dunes, waste places, margins of ponds, etc.; common and generally distributed. Short grassland, paths and waste ground. Told from *P. media* when not in flower by the fact that you can see the petioles (they are hidden in *P. media*). Leaves mined by *Phytomyza plantaginis*. Widespread and abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68
NH69 NH78 NH79 NH88 NH89

NVC: CG 5; MG 6,7,10; OV 4,7-10,12,13,15,16,18-24,28,29,31,33; S 18,23; SD 8, 14

[Plantago major subsp. **intermedia** (Gilib.) Lange]

Plantago intermedia Gilib.

A smaller plant with 3-5 veins in the leaves (not 5-9) with an undulate and cuneate base (not subcordate). Capsules with more seeds than in subsp. *major* (14-25 rather than 4-15). Damp, slightly saline places near the sea.

Recorded from Easternness and the Moray coast.

[Plantago media L. *Hoary Plantain*]

hr 5

For a Plantain, this species is remarkably pretty when in flower, with long snowy white stamens. There is often a zone of about 10mm around the outside of the rosette that is clear of vascular plants and bryophytes, suggesting that it might be allelopathic.

Recorded from Easternness and the Moray coast.

NVC: OV 10,18,21; U 1

Plantago lanceolata L. *Ribwort Plantain*

hr 4

Widespread and common in grassland on roadsides, pastures, hedgerows, heaths, waste and cultivated soil. The most frequent species in the whole of the British Isles at the scale of 10km² (just ahead of *Trifolium repens* and *Lotus corniculatus*).

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2-5; M 22,24; MG 1,4-7,9,10; OV 7,9,10,14,18-26,41; U 1,20; W 22,23; SM 16, 28; SD 1, 7-19; MC 3-5, 8-12

[Plantago arenaria Waldst. & Kit *Branched Plantain*]

• th 5

Plantago scabra Moench nom. illeg.

Plantago indica L. nom. illeg.

Plantago psyllium L. nom. illeg.

Open, rough ground on sandy soils. This is commoner than, and often mistaken for, *P. indica* which has many glandular hairs on its inflorescence and peduncles. In *P. arenaria* the lower bracts are strongly differentiated from the upper bracts.

Recorded from Easternness and the Moray coast.

[Plantago afra L. *Glandular Plantain*]

• th 5

Plantago psyllium L. 1762 non 1753

Plantago indica auct. non L.

A bird-seed alien of waste places.

Recorded from Easternness and the Moray coast.

Littorella uniflora (L.) Asch. *Shoreweed*

hyd 6

Littorella juncea

Plantago uniflora L.

In shallow water at the edge of lochs on sandy or gravelly substrates. Frequent.

Carn Dearg		15/07/1973	A.G. Kenneth
Loch Muidhe	NC660050	15/08/1976	M.J. Marshall
Coul Links Embo		15/08/1976	M.J. Marshall

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 ND01 NH68 NH69 NH78 NH79 NH89

Loch an Alltan Fhearna	NC750331	07/07/1998	Gordon Rothero
Fhearna Boathouse	NC746331	lake shore	20/06/2011
Mound Rock	NH770980	composite	11/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Buidhe	NH657982	stony shore	09/07/2013
Loch a' Ghorm-choire	NC440326	loch	26/06/2014

NVC: A 8,9,10,11,22,23; OV 31,35; S 13,19

HIPPURIDACEAE

Hippuris vulgaris L. *Mare's-tail*

hyd 6

Lochans, ditches and ponds. Occasional, but abundant where it grows.

Knockfin Heights		15/07/1962	BSBI
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NC30 NC51 NC60 NC61 NC70 NC71 NC72 NC74 NC80 NC81 NC82 NC83 NC84 NC92 NC93
NH59 NH78 NH79

Saw Mill Golspie	NC840011	pond	09/05/2011
Overskibo ponds	NH724903	pond	14/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC850400	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
S of Forsinard lochans	NC869419	wet heath	15/06/2015

NVC: A 7, 8, 11, 21; S 4

CALLITRICHACEAE

Callitriche L. *Water-starworts*

This is a difficult group because the plants are very variable (they often have different aquatic and terrestrial growth forms) and the flowers are very small. For accurate identification you really need to find ripe fruits, and inspect them under high power in good light.

Callitriche hermaphroditica L. *Autumnal Water-starwort* hyd 5

Rivers and lochs. Rare.

Knockfin		15/07/1962	M. McC. Webster
Loch Evelix	NH737876	12/07/1983	BSBI

NC60 NC71 NC83 NC93 NH78

NVC: A 8, 11, 13, 23

Callitriche stagnalis Scop. sens. lat. *Common Water-starwort* hyd 5

Ditches, ponds, slow streams with acid water, woodland rides, iron-rich streams in alder woods, and other wet places. It grows as an aquatic or as a terrestrial plant; common and generally distributed. Wing of fruit 0.12 to 0.25mm wide, stamens 2mm at anthesis. Difficult to separate from *C. platycarpa*. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC50 NC51 NC52 NC60 NC62 NC70 NC71 NC72 NC73
NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH78
NH79 NH89

Loanboadich	NH608944	roadside ditch	18/06/2011
Mound Rock	NH770980	composite	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Craggie road junction	NC744075	roadside	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Badintagairt Glen Cassley	NC427097	wet grassland	28/06/2014

Lochside Achantoul Lodge	NC873355	hamlet	19/06/2015
Ord Place Lairg	NC580058	council houses	10/05/2015

etc.

NVC: A 1,2,5,8-12,15-17,19,21,24; OV 31,32,35; S 4-6,10,12,14,23,28; W 1,5,8

[Callitriche platycarpa Kutz. *Various-leaved Water-starwort*] hyd 4

Ditches, ponds and slow streams where it grows as an aquatic or as a terrestrial plant. Wing of fruit 0.07 to 0.10mm wide, stamens 4mm at anthesis. Difficult to separate from *C. stagnalis*, but commoner as a submerged plant.

NVC: A 3,8,9,11,16,20,21

Recorded from Easternness and the Moray coast.

[Callitriche brutia Petagna *Pedunculate Water-starwort*] hyd 5

Callitriche pedunculata DC.

Callitriche intermedia Hoffm. subsp. *pedunculata* (DC.) Clapham

Muddy places in woods and by ponds, in shallow water often drying out in summer. This is usually a terrestrial plant. Fruits with a long stalk (2-10mm).

Recorded from Easter Ross.

Callitriche hamulata Kutz. ex W.D.J. Koch sens. lat. *Intermediate Water-starwort* hyd 5

Callitriche intermedia Hoffm. subsp. *hamulata* (Kutz. ex K ch) Clapham

Callitriche brutia Petagna subsp. *hamulata* (Kutz. ex Koch) O. Bolòs and Vigo

Streams and ponds with acid water. It grows as an aquatic or as a terrestrial plant, typically in deeper water than *C. brutia*, which does not dry out in summer. Hard to tell from *C. brutia*. Its styles are persistent and reflexed.

NC30 NC31 NC32 NC33 NC40 NC43 NC50 NC60 NC61 NC62 NC70 NC72 NC73 NC80 NC81
NC82 NC83 NC91 ND01 NH59 NH69 NH79

Altass Swamp	NH504992	swamp	12/07/2011
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Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
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NVC: A 2,11,15,19,23,24; OV 30,31,35; S 16

SCROPHULARIACEAE

Nemesia strumosa Benth. *Cape Jewels* • th 6

Bedding and hanging basket annuals in a wide range of colours, but the blues and whites are the most commonly found self sown in pavements and on walls.

Old Shore Lairg	NC582068	council houses	06/09/2012
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Ord Place Lairg	NC579059	council houses	06/09/2012
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Chaenostoma cordatum (Thunb.) Benth. *Trailing Phlox or Bacopa*
Sutera cordata (Thunb.) Kuntze

• h 6

This is the densely white-flowered hanging basket plant. Increasingly seen as an escape on pavements in towns. Behaving as a half-hardy annual with us, but perennial in warmer climes.

Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Golspie High Street N end	NC837002	terrace	06/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Verbascum virgatum Stokes *Twiggy Mullein*

• hs 6

A very rare alien with us. Formerly a common escape from gardens, but now little cultivated. It has high seed production and a long-lived seed bank, so it can grow abundantly following soil disturbance, even though it was many years since the flowers were last seen at a site. Told from *V. blattaria* by the very short pedicels (shorter than the calyx), more than one flower per node, and the plant has stalked glands throughout. The excellent waste ground at Mill Lane (Brora Industrial Estate) was developed for housing in late 2011 and most of the good plants were lost during the tidying up and subsequent landscaping. The *Verbascum virgatum* survived in two tiny pockets of waste ground close to the margins of the site in 2012 and 2013.

Brora Industrial Estate	NC904040	waste ground	08/05/2011
rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Stafford Terrace Brora	NC904042	waste ground	07/09/2012
Brora Industrial Estate	NC905041	waste ground	07/05/2013
Brora Industrial Estate	NC905041	waste ground	07/07/2013
Mill Way Brora	NC905041	waste ground	27/06/2014
Park Terrace Brora	NC905040	village	13/06/2015

Verbascum phoeniceum L. *Purple Mullein*

• hs 6

An occasional self-sown garden escape, sporadic in pavement cracks and roadsides.

Loth Station Cottage	NC957100	hamlet	18/06/2015
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Also recorded from Easternness and the Moray coast.

[**Verbascum phlomoides** L. *Orange Mullein*]

• hs 6

Found rarely in our region. Unlike *V. thapsus* and *V. densiflorum*, this plant has greener, non-decurrent stem leaves. Told from *V. bombyciferum* by its larger (>4mm) orange anthers and the two lower filaments without hairs in the lower half. Rosette is small and untidy.

Recorded from Easternness and the Moray coast.

Verbascum thapsus L. *Great Mullein*

hs 6

Roadsides, hilly slopes, open woods, dry banks, demolition sites, railway cuttings, railway sidings, dry waste places and wall-tops; occasional, and typically in small quantity in East Sutherland. Transient and ephemeral, but possessed of a long-lived seed bank. Extremely widespread as an alien plant in the New World and in Australasia. It forms a virtual monoculture on the bare upper slopes of the volcano of Mona Loa on the Big Island of Hawaii.

Helmsdale		15/07/1973	A.J. Suter
Achany walled garden	NC571015	15/07/1974	J.E. Kirby

NC50 NC80 NC90 ND01 NH78 NH79 NH89

Balnepolaig Dornoch	NH787913	dry stone wall	11/07/2010
Rosehall	NC470021	village	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Mill Way Brora	NC904040	waste ground	08/05/2011
Astle	NH745919	hamlet	10/05/2011
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Brora Industrial Estate	NC905041	waste ground	07/05/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Mill Way Brora	NC905041	waste ground	27/06/2014

NVC: not classified

Verbascum chaixii SVill. *Nettle-leaved Mullein* ● hs 6

This is the common garden plant, with either white or yellow petals, but with conspicuous purple hairs on the filaments. Self-sowing in gardens, and sometimes getting out.

Davoch Pittentrail	NC723016	garden	10/09/2012
Camore	NH775903	bungalows	30/06/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Verbascum nigrum L. *Dark Mullein* ● hs 7

The basal leaves have long petioles and heart-shaped bases. This is the latest of the Mulleins into flower. Easy to identify by its dark red petioles and leaf veins. The cultivar 'Album' was found as a garden escape in Bonar Bridge (below).

Bonar Bridge	NH611911	suburbia	12/07/2010
Skibo Castle S wall	NH735891	waste ground	10/05/2011
Skibo Castle walled garden	NH737891	path	10/05/2011
Skibo Castle S front	NH737890	parkland	11/07/2013

Also recorded from Easternness and the Moray coast.

Verbascum lychnitis L. *White Mullein* ● hs 6

An uncommon garden plant with us, occasionally self sown, and more often seen with yellow flowers than with white. The pedicels are long (>6mm) and the anthers are all reniform with white hairs on the filaments.

Ospisdale House NH713897 parkland 11/07/2013

Scrophularia nodosa L. *Common Figwort*

hp 6

Damp woods, banks and ditches and on shady waste ground. Occasional in the lowlands.

NC40 NC50 NC60 NC63 NC70 NC71 NC80 NC82 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Greenpark S of Helmsdale	ND019144	railway	11/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Saw Mill Golspie	NC841012	woodland	09/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Golspie Big Burn	NC840007	woodland	10/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

NVC: W 8

[Scrophularia umbrosa Dumort. *Green Figwort*]

• hp 7

Told from *S. auriculata* by its bifid staminode with two diverging lobes at the apex (the staminode of *S. auriculata* is entire and orbicular), serrate not crenate leaf margins, lack of paired basal leaf lobes, and by the fact that the inflorescence is interspersed with leaf-like (not narrow, scale-like) bracts.

Recorded from Easternness and the Moray coast.

[Scrophularia vernalis L. *Yellow Figwort*]

• hp 4

The flowers are yellow not brown. A local speciality of heaths and bushy places that is told from all the other figworts by the absence of a staminode, and by the equal size of the corolla lobes (they are not organised into upper and lower lips).

Recorded from Easternness and the Moray coast.

Phygелиus capensis E. Mey. ex Benth. *Cape Figwort* ● hp 6

An uncommon garden outcast. A big, highly distinctive plant in flower, with its long tubular red flowers, but very challenging in leaf.

Bracehead Terrace Portgower	ND008134	village	13/07/2011
Doll	NC876034	hamlet	10/09/2012
Duke Street Golspie	NC838001	old walls	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
West Helmsdale	ND020157	hamlet	27/06/2014
Doll	NC878033	hamlet	11/05/2015

Phygелиus x rectus 'Moonraker' *Yellow Cape Figwort* ● hp 6

Swordale Crescent Bonar	NH611915	council houses	06/09/2012
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Buddleja alternifolia Maxim. *Alternate-leaved Butterfly-bush* ● m 6

The least common of the 3 widely cultivated Buddlejias, it does not self-sow in vc. 107.

Buddleja davidii Franch. *Butterfly-bush* ● m 6

Waste ground in towns, railway tracks, embankments and cuttings, mortared walls, cracks in paving and bare ground in gardens. Often completely dominant often to the exclusion of all other vegetation on derelict urban land, on railway banks, brickwork (often seen high up on chimney stacks), pavement cracks and ruins. Photographs of railway scenes from the 1950s and 1960s show no evidence of *Buddleja* in areas that are now completely dominated by unbroken thickets of the plant. A unusually successful alien invader, but confined to bare, disturbed sites, and not invasive of natural habitats.

ND01 NH68

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010

Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Embo	NH817928	waste ground	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Spinningdale	NH675897	waste ground	18/06/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Brora Industrial Estate	NC905412	waste ground	07/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Brora Industrial Estate	NC905418	waste ground	07/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

Buddleja globosa Hope *Orange-ball-tree*

• m 6

This very characteristic shrub is common in hedgerows in villages, but it is always planted. It does not set seed in vc. 107.

Loth Station Cottage	NC959101	cottages	11/07/2010
A9 verge at Ballinreach	NC932087	roadside	23/06/2011
Cavaig North Brora	NC894041	hamlet	10/09/2012
Portgower	ND010135	hamlet	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Ross Terrace Brora	NC905387	railway	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Duke Street Golspie	NC839245	suburbia	06/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
North Brora	NC909044	bungalows	19/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Lower Brora	NC908037	bungalows	11/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

LAMIACEAE

Monarda didyma L.*Bergamot*

• hs 6

An uncommon garden plant, and very seldom oucast. It does not self seed with us.

Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Biblical Gardens Golspie	NC837001	garden	05/07/2013

Stachys macrantha (K.Koch) Stearn *Giant Betony*

• hs 6

This is the large-flowered betony of gardens.

Sleastary	NH643963	croft	09/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Stachys byzantina K. Koch *Lamb's-ear*

• hs 6

Stachys lanata Jacq., non Crantz

This is the common garden plant (*Lamb's Lugs*) with woolly silver leaves and rather insipid purple flowers. Often found as an oucast and occasionally self-sown. Sporadic in towns and villages throughout.

Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Lonemore	NH764884	hamlet	11/07/2010
Muie	NC669044	hamlet	13/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Skibo Castle walled garden	NH737891	path	10/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Kirkton	NH799986	farmstead	10/07/2011
Kinbrace	NC863319	hamlet	10/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Station Terrace Brora	NC906040	terrace	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Kildonan Lodge	NC904222	parkland	01/07/2013
Davochfin	NH778889	hamlet	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
West Helmsdale	ND020157	hamlet	27/06/2014
Lonemore	NH764884	hamlet	17/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015

Stachys sylvatica L. *Hedge Woundwort*

hp 7

Woods, ditches, thickets, wood margins, hedges, brook-sides and shady waste ground in towns and villages. Most abundant in rich soil in low-lying situations, becoming much less frequent on the higher ground.

NC30 NC31 NC40 NC41 NC50 NC60 NC70 NC71 NC80 NC90 NC91 ND01 NH59 NH68 NH69
NH78 NH79 NH89

Allt a' Chnoic Ghlais	NC380181	ravine	10/07/1998 Gordon Rothero
Longuish Road Junction	NH644919	waste ground	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Achnairn Shinness	NC555128	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
East Clyde	NC893062	stream	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Spinningdale	NH674896	woodland	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011

Skibo Castle walled garden	NH737891	gardens	10/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Tulloch	NH613925	ditch	09/07/2011
Mound Rock basal woods	NH780985	woodland	10/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Golspie Burn	NC829020	oak birch woodland	18/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
Marians Rock Quarry	NC742013	quarry bottom	18/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Achue	NH696912	hamlet	16/05/2012
Shin Creek Achany	NC574001	woodland	16/05/2012
Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
etc.			

NVC: OV 26, 27; W 6, 8, 10, 12, 21, 22, 24

Stachys x ambigua Sm. *Hybrid Woundwort* = **S. sylvatica** x **S. palustris**

In ditches, rather uncommon, but certainly under-recorded.

Overscaig Hotel	NC418233	10/09/1975	J.E. Kirby
Lairg			John Anthony

NC42 NC50 NC70 NC80 NC91 ND01 NH78 NH88 NH89

Navidale Stream	ND042160	stream	17/06/2015
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Stachys palustris L. *Marsh Woundwort*

gt 7

Ditches, stream-sides, thickets, marshes, margins of rivers and ponds, and rarely in damp arable fields. Commonest on the alluvium and the clay, rare on acid sands and absent from the highest ground.

NC30 NC40 NC50 NC60 NC70 NC74 NC80 NC83 NC91 NC92 ND01 NH78 NH79 NH89

Embo Links	NH817935	sand dunes	11/07/2010
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Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Loch Evelix	NH745876	lakeside	10/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
West Shinness Lodge	NC530151	hamlet	08/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Ospisdale House	NH713897	parkland	11/07/2013
Navidale Stream	ND042160	stream	17/06/2015
Dubh Choille Glen Cassley	NC379180	rocky stream	16/05/2015

NVC: M 28; OV 26, 32; S 8, 16, 26

Stachys arvensis (L.) L. *Field Woundwort*
Glechoma arvensis L.

○ th 4

Cultivated fields, more frequent on sandy soil. Very rare in the lowlands, and not seen for more than 100 years.

Kildonan 15/07/1889 W.R. Linton

NC92 ND01 NH79

NVC: OV 4

[Ballota nigra L. *Black Horehound*]
Ballota nigra subsp. **meridionalis** (Bég.) Bég.
Ballota ruderalis auct., non Sw.
Ballota nigra L. var. *foetida* Vis.
Ballota nigra L. subsp. *foetida* (Vis.) Hayek

○ hp 6

Hedges, roadsides and waste places, typically near houses.

Recorded from Easternness and the Moray coast.

NVC: OV 19

[Leonurus cardiaca L. *Motherwort*]

● hp 7

Very rare alien, casual in waste places. A striking species, now known only as a “plantsman’s plant” in gardens.

Recorded from Easternness and the Moray coast.

Lamiaeum galeobdolon (L.) Ehrend. & Polatschek

chh 5

Galeopsis galeobdolon L.

Lamium galeobdolon (L.) L.

Galeobdolon luteum Hudson

A confusing species with a wide range of phenotypic variation comprising native woodland plants and rampant garden escapes. The forms with silvery-white leaf blotches and bigger fruiting calyx (> 12mm) are garden escapes (subsp. *argentatum*), while green leaved plants with smaller calyces are native or escaped (subsp. *montanum*).

[**Lamiaeum galeobdolon** subsp. **montanum** (Pers.) Ehrend. & Polatschek *Yellow Archangel*]

Pollichia montanum Pers.

Lamium galeobdolon (L.) L. subsp. *montanum* (Pers.) Hayek

Lamium montanum (Pers.) Á. Löve and D. Löve

Galeobdolon luteum Hudson subsp. *montanum* (Pers.) Dvorkov

Beech, oak and alder woods on nutrient-rich soils. In central and southern England, it is an indicator species of ancient woodland. Rare in Scotland.

NVC: W 8,10,12,14

Recorded from Easter Ross and the Moray coast.

Lamiaeum galeobdolon subsp. **argentatum** (Smejkal) Stace

• chh 5

Galeobdolon argentatum Smejkal

Lamium galeobdolon (L.) L. subsp. *argentatum* (Smejkal) J. Duvign.

Lamium galeobdolon (L.) L. forma *argentatum* (Smejkal) Mennema

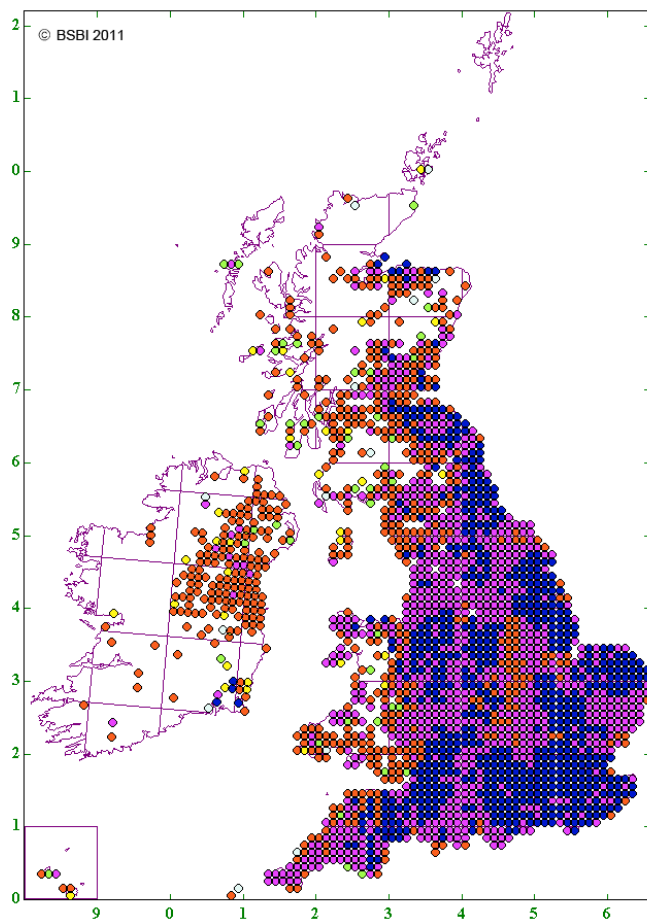
An rampant garden plant with silver-splashed foliage, often escaped or thrown out. Locally dominant in woodland and scrub; occasional in villages and towns throughout, but seldom far from houses. Very rare in undisturbed woodland.

Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Duke Street Golspie	NC839001	riverbank	07/09/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Brora Golf Club	NC909039	suburbia	27/06/2014
Lower Brora	NC908037	bungalows	11/05/2015
Doll	NC881027	hamlet	11/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Fuaran Ruairidh Badninish	NH763942	hamlet	17/05/2015

Lamium album L. *White Dead-nettle*

○ hp 3

Waysides, waste places, borders of fields, hedge-banks, roadsides, grassy waste ground and gardens. Flowers right through milder winters. Has all the behavioural and distributional traits of an alien species: it is difficult to attribute the species unequivocally to any native British habitat. One of the species whose flowering date has been most advanced by climate warming, blooming up to 55 days earlier than in the mid-twentieth century. At present, most of vc. 107 appears to be just north of its northernmost British limit (see the distribution map below):



Lamium album is recorded from Easterness and the Moray coast, but was not recorded from East Sutherland until May 2012 (see below). It was not at the Dornoch Coastguard Station in 2014 or 2015.

Dornoch Coastguard Station	NH802892	open ground	20/05/2012
West Langwell	NC698088	hamlet	13/06/2015

West Langwell NC689093 roadside 13/06/2015

NVC: MG 1; OV 13,24

Lamium maculatum (L.) L. *Spotted Dead-nettle*

• hp 5

Lamium album L. var. *maculatum* L.

An occasional edging and rockery plant in cottage gardens. Reasonably vigorous and sometimes thrown out. Hedge-banks and waste ground, almost always as an escape from gardens; rare and not well established. Told from *L. album* by the presence of one (not 2 or 3) teeth on either side of the lower lip of the corolla; leaves blotched with a central white line.

NH78

Brora Main Street	NC905038	street	11/04/2010
Kinbrace	NC863319	hamlet	11/05/2011
Dalchalm	NC909056	village	12/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Cavaig North Brora	NC894041	hamlet	10/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Main Street Brora	NC903391	street	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Embo	NH817928	village	08/05/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Dalchalm	NC911059	hamlet	19/06/2015
Rosehall	NC470021	village	10/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Lamium purpureum L. *Red Dead-nettle*

○ th 3

Cultivated ground, fallow fields, roadsides, hedge-sides, disturbed waste ground and as a garden weed. Occasional in the lowlands.

NC40 NC50 NC51 NC63 NC70 NC73 NC80 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59
NH68 NH69 NH78 NH79 NH88 NH89

Longuish Road Junction	NH644919	waste ground	10/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Pittentrail	NC726020	village	12/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Embo village dunes	NH817929	sand dunes	23/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011
Rogart Station	NC724019	railway	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
The Brdge Bonar Bridge	NH610915	old walls	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Pittentrail	NC726019	village	04/05/2013
Dunrobin Street Helmsdale	ND301152	stonework	05/05/2013
Caplich Estate	NC358212	birch wood	06/05/2013
Embo	NH817928	village	08/05/2013
Lower Brora	NC908037	bungalows	11/05/2015
Pittentrail	NC726019	village	10/05/2015
Kildonan Station Cottage	NC901216	disturbed ground	17/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

NVC: OV 4,7-10,12-14,18,22,24,25; W 21

[**Lamium hybridum** Vill. *Cut-leaved Dead-nettle*] o th 3

Gardens and waste ground near houses. Told from *L. purpureum* by leaves deeply serrate (not crenate-serrate), their teeth more than 2mm long.

Recorded from Easterness and the Moray coast.

NVC: OV 7,9,10,13

Lamium confertum Fr. *Northern Dead-nettle* o th 4

Lamium molucellifolium auct. non (Schumach.) Fr.

Cultivated and waste ground. Told from *L. amplexicaule* by its larger calyx (8-12mm rather than 5-7mm). Occasional in the lowlands.

Helmsdale 15/07/1962 M. McC. Webster

NC50 NC73 NC82 NC90 NC91 ND01 NH78 NH88 NH89

NVC: not classified

Lamium amplexicaule L. *Henbit Dead-nettle* ○ th 4

Cultivated and waste ground, chiefly on sandy or gravelly soil, wall tops, etc. Local and uncommon.

NC50 NC80 NC83 NC90 NC92 ND01 NH78 NH89

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dalchalm	NC909056	village	12/05/2011
Embo village dunes	NH817929	sand dunes	23/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011
Academy Street Brora	NC901043	cottages	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Embo	NH817928	village	08/05/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015

NVC: OV 7,14,17

Galeopsis speciosa Mill. *Large-flowered Hemp-nettle* ○ th 7

Cultivated fields, roadsides and tips. Very rare and sporadic.

Rovie Lodge Rogart NC709035 20/08/1979 M.J. Marshall det. R.M. Harley

NC70

Galeopsis tetrahit L. *Common Hemp-nettle* th 7

Cultivated and waste ground, hedges, wood borders, and open places in woods on acid soils. Common and generally abundant, especially after woodland clearance, but apparently more frequent than *G. bifida* in most districts of vc. 107. Like most Hemp-nettles, this species has a long-lived seed bank, and will crop up following soil disturbance. The lip of the corolla is flat and un-notched (entire).

NC60 NC70 NC90 NC91 NH69 NH78

Camore Wood	NH771894	gravel pit	11/07/2010
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Achnahuie	NC716072	ditch	22/06/2011
Tulloch	NH613925	ditch	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Cattle feeder Strath Fleet	NH767993	poached ground	10/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
Brora Bridge	NC905039	village	07/09/2012
Hilton	NH804915	hamlet	04/07/2013
Allt Horn Dunrobin Glen	NC801491	conifer plantation	06/07/2013
Campbell Street Dornoch	NH791895	new housing	11/06/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015

NVC: OV 4,9,33; M 28; W 6

Galeopsis bifida Boenn. *Bifid Hemp-nettle*

th 7

Cultivated and waste ground, hedges and woodland borders. Told from *G. tetrahit* by the saddle-shaped lip of the corolla (it has rolled-down margins on its sides) which is clearly notched at the tip (emarginate not flat). Possibly under-recorded in the past. They occasionally grow together at the same site (see Deans Park Dornoch above and below).

NC50 NC51 NC60 NC70 NC91 NH79

Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Cyderhall Farm Cuthill	NH764892	arable	04/07/2013
Deans Park Dornoch	NH792895	soil piles	11/06/2015

NVC: not classified

Phlomis fruticosa L. *Jerusalem Sage*

• n 6

A very rare garden outcast. A popular yellow-flowered grey-leaved shrub grown in Mediterranean beds.

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Golspie Biblical Garden	NC837001	botanical garden	07/09/2012
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Golspie Biblical Garden	NC837001	botanical garden	05/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Phlomis russelliana (Sims) Benth. *Turkish Sage*

• hp 6

A rather uncommon garden plant, and consequently rare as an outcast. Rough ground and tracksides, where garden waste is fly-tipped.

Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Crackaig Farm	NC957107	farmstead	23/06/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

[**Marrubium vulgare** L. *White Horehound*]

• hp 6

Roadsides and waste places

Recorded from the Moray coast.

Scutellaria galericulata L. *Skullcap*

hp 6

Wet grassy places, damp woods and marshes. Rare on shingle beaches. Local and uncommon.

NC40 NC70 ND01 NH59 NH79

Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
The Alders The Mound	NH759985	woodland	13/05/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Inveran	NH560970	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Flood Bay	NH711883	shingle beach	11/07/2013

NVC: M 9,22; OV 26; S 3,6,7,14,25,26; W 5

Teucrium scorodonia L. *Wood Sage*

hp 7

Dry open woods, commons, dunes, hedge-banks and heaths, preferring sunny exposures on acid soils. Locally frequent, but absent from the highest ground.

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC60 NC63 NC70 NC71 NC74 NC80 NC81
NC82 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Wester Lonemore	NH757878	coastal grassland	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Maikle Kyle of Sutherland	NH595936	woodland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Duchally Lodge	NC388166	riverbank	10/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
East Clyne	NC893062	stream	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Mound Rock basal woods	NH780985	woodland	10/07/2011
Mound Rock	NH779985	bracken	10/07/2011
Mound Rock crags	NH780985	crags	10/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Linsidmore	NH540990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Oykel Bridge E	NC390000	riverbank	12/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
Beinn Dhorain crags	NC932154	rocks	09/09/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012
Beinn Dhorian	NC929146	streamside	17/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Achany Glen	NC570020	woodland	16/05/2012
Big Burn Backies	NC834014	woodland	05/05/2013
Strath Helmsdale	ND022171	birch wood	05/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Ord of Caithness	ND055172	coastal heath	05/05/2013
Loch Brora	NC856079	stream bank	05/05/2013
Big Burn Golspie	NC840008	woodland	05/05/2013
Badair Dhonnadh Wood	NC415013	roadside	06/05/2013
Achness Falls Rosehall	NC468028	riverbank	06/05/2013

Glen Cassley	NC438088	birch wood	06/05/2013
Glencassley Castle	NC439077	rocky stream	06/05/2013
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Firth Road Bridge	NH747863	embankment	30/06/2013
Sron Lom Glen Cassley	NC358208	crags	03/07/2013
Camore Wood	NH770893	quarry	04/07/2013
opposite Ulbster Kildonan	NC957185	ravine birch wood	05/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Ord of Caithness	ND056173	stream	07/07/2013
Ord of Caithness	ND057173	coastal cliffs	07/07/2013
Creagan Dubh	NH727945	crags	09/07/2013
Coill' an Tosgaire Oykel	NC344050	birch wood	09/07/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
Flood Bay	NH712882	coastal grassland	11/07/2013
etc.			

NVC: CG 2,4; MG 1; OV 27; U 1,2,20; W 8,10,12,16,21-23,25

Ajuga reptans L. *Bugle*

hs 5

Damp woods, thickets, banks, wet pastures, fens, damp heaths and ancient meadowland; common and widely distributed. Garden cultivars have various shades of variegated or purple foliage.

NC30 NC31 NC40 NC41 NC43 NC50 NC60 NC63 NC70 NC71 NC80 NC81 NC83 NC91 NC92
NC93 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Glen Cassley	NC455050	riverbank	10/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011

Embo Caravan Park	NH818925	caravan park	09/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Craggie Bridge	NC913192	rocky stream	20/06/2015
Strath Oykel	NH496999	riverbank	12/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015
Kyloag	NH660911	hamlet	08/05/2015
Golspie Big Burn	NC837012	woodland	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Ben Bhraggie Wood	NC818007	conifer plantation	11/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Allt Breac Helmsdale	NC958186	stream	17/06/2015
Helmsdale Station	ND023155	railway	17/06/2015
Balblair Wood	NH803976	conifer plantation	12/06/2015
Kildonan Station approach	NC901217	compacted gravel	17/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
West Langwell	NC689093	roadside	13/06/2015
Allt a Choin-duinn	NH614992	stream	12/06/2015
West Langwell	NC698088	hamlet	13/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

NVC: M 22, 27; OV 26; W 5, 8, 10-12

Horticultural cultivars like ‘Burgandy Glow’ and ‘Atropurpurea’ are occasionally found on waste ground near houses:

Brora Harbour	NC909037	village	12/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Lairg	NC579068	bungalows	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Marrel	ND018172	woodland	14/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

Ajuga pyramidalis L. *Pyramidal Bugle*

h 6



Ajuga pyramidalis The Flowering Garden.

One of our local specialities. Occasional on base rich rocks and slopes with other rarities like *Potentilla rupestris*, *Sorbus rupicola* and *Helianthemum nummularium*.

Ben Griam Mor		11/07/1900	Shoolbred, W.A. NMW
Migdale Rock	NH650907	16/05/1961	Ratcliffe, Dr D.A.
The Mound		15/07/1962	JA
Cambusmore		15/07/1962	A. McG. Stirling
Silver Rock		15/07/1963	D.A. Ratcliffe
Cuthill Links	NH740870	26/05/1972	M. Barron det. M. McC. Webster
Migdale Rock		15/08/1976	M.J. Marshall
Migdale Rock	NH648908	12/05/1982	Angus, Mr S., MacIennan, S.
Migdale Rock	NH648908	18/05/1982	Stirling, Mr A.M., Mitchell, Mr J.
Mound Rock		15/06/1983	C. Lawson
Glen Cassley	NC357209	10/07/1998	Gordon Rothero

NC30 NC32 NC52 NC70 NC82 NC83 NC91 NC92 NC93 ND01 NH69 NH78 NH79

Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Marian's Rock Quarry	NC743013	quarry side	18/05/2012
Migdale Rock	NH649907	rocks	10/08/2012
Sron Lom Glen Cassley	NC357208	crags	03/07/2013

NVC: not classified

Nepeta x faassenii Bergmans ex Stearn *Garden Cat-mint*
Nepeta x mussinii auct., non Sprengel ex Henckel

• hp 6

This is the common edging plant of herbaceous borders. Cats love to roll in it, and to flatten out the centre of bushes in a manner designed to maximise the irritation caused to fastidious gardeners.

Dunrobin Castle	NC850007	parkland	11/04/2010
Clashmore	NH747895	village	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Dunrobin Castle	NC851008	parkland	11/07/2010
Camore	NH778903	council houses	12/07/2010
N Brora	NC904051	bungalows	12/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Castle Street Dornoch	NH794897	village	08/05/2013
Upper Gartymore	ND015150	hamlet	01/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Dunrobin Castle stone walls	NC850007	stonework	06/07/2013
Clynesh Brora	NC902053	hamlet	10/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
North Brora	NC909044	bungalows	19/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

Glechoma hederacea L. *Ground-ivy*
Nepeta hederacea (L.) Trev. St. Léon

hp 3

Woods, thickets, hedges, borders of fields and shady waste ground in the lowlands. Avoided by rabbits and intolerant of trampling, so conspicuous in rabbit grazed but non-compacted turf. Commonest near the coast.

NC50 NC51 NC60 NC70 NC71 NC80 NH59 NH68 NH69 NH78 NH89

Dornoch Academy	NH789899	roadside	10/04/2010
Lothmore Church	NC971113	churchyard	11/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Carnegie Wodland	NH732892	parkland	09/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
Coul Links	NH801950	trackside	23/06/2011
Embo village dunes	NH817929	sand dunes	23/06/2011

West Shinness crofts	NC533151	hamlet	14/07/2011
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Marians Rock Quarry	NC743013	quarry side	18/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Shin Creek Achany	NC574001	woodland	16/05/2012
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Embo	NH817928	village	08/05/2013
Hilton	NH804915	hamlet	04/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Golspie Big Burn	NC840008	woodland	11/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Meikle Ferry	NH729870	roadside	12/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Crask Inn	NC523246	hamlet	13/05/2015

NVC: MG 1; OV 24,25,27; S 5,26; U 1; W 6,8,10,12,13,21,24,25

Prunella vulgaris L. *Selfheal*

hs 6

Pastures, heaths, woodland rides, lawns and waste places. One of our commonest wildflowers, and found in a wide range of grassland, wetland and woodland habitats. Widespread and abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2-5; M 22,24,27; MG 1,4-6,9,10; OV 21,35; U 20; W 6,8,10,24

Melissa officinalis L. *Balm*

• hp 8

Known at once by the lemony smell of its crushed leaves. Occasional on waste ground close to houses.

Struie Road Dornoch	NH800895	suburbia	11/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Crask Inn	NC523246	hamlet	13/05/2015

Also recorded from the Moray coast.

[**Clinopodium vulgare** L. *Wild Basil*]

hp 7

Calamintha vulgaris Hal., non Clairv.

On banks, bushy places, wood borders, hedgerows, roadsides and railway banks on dry, calcareous soils. Like *C. acinos*, this species has its axillary flower clusters *without* a common stalk. Told from *C. acinos* by its more flowery whorls (more than 8, rather than 6 or less).

Recorded from Easternness and the Moray coast.

Clinopodium acinos (L.) Kuntze *Basil Thyme* th 5 †

Thymus acinos L.

Calamintha arvensis

Calamintha acinos (L.) Clairv.

Acinos arvensis (Lam.) Dandy

Dry sandy fields, dry banks, roadsides, bare places in dry grassland, fallow fields and railway cuttings; sporadic and usually in small quantity. Very local and rare. No recent records.

Invershin NH579953 15/07/1890 E.S. Marshall & F.J. Hanbury

NH59

NVC: OV 39

Origanum vulgare L. *Wild Marjoram* chh 7

Dry sunny banks, pastures, wood margins, and roadsides on calcareous soils in the lowlands. Absent from large parts of the county. Often as a garden escape with us.

Braefoot Portgower	ND010135	cottages	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
The Terrace Lairg	NC581059	semidetached	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013

NVC: CG 3,4; MG 1; W 21

Thymus vulgaris L. *Garden Thyme* • n 7

This common garden herb is occasionally found on old walls in villages, and rarely on waste ground

Golspie Biblical Garden NC837001 botanical garden 13/06/2015

Thymus polytrichus A. Kern. ex Borbás *Wild Thyme* chw 5

Thymus polytrichus subsp. **britannicus** (Ronniger) Kerguelen

Thymus britannicus Ronn.
Thymus drucei Ronn.
Thymus serpyllum auct. non L.
Thymus praecox Opiz subsp. *britannicus* (Ronn.) Holub

Dry heath, dunes, close-grazed uplands, screes, open grassland and roadsides. The hairs on the lower parts of the flowering stem are confined to two opposing faces (rather than on the 4 angles of the stem). Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC83 NC84 NC90 NC91 ND01 NH59 NH68 NH69
 NH78 NH79 NH88 NH89

Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Crackaig Links	NC960100	coastal grassland	11/07/2010
Crackaig Links	NC961098	sand dunes	11/07/2010
Glaslochan Links N Brora	NC912060	coastal grassland	11/07/2010
Glaslochan Links N Brora	NC915062	blow-out sand dune	11/07/2010
Brora	NC910041	suburbia	11/07/2010
Strathsteven Cottage	NC879013	coastal grassland	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH801958	Cladonia heath	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Wester Lonemore	NH758877	coastal heath	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Duchally Lodge	NC388166	riverbank	10/05/2011
Marian's Rock	NC747012	cliff	13/05/2011
East Clyne	NC893062	stream	12/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
Rhemusaig Quarry Rogart	NC731020	abandoned quarry	10/09/2012
Doire Dubh	NC365326	streamside	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Cnoc a Bhreach-liathaid	NC621142	stream bank	04/05/2013
Glencassley Castle	NC439077	rocky stream	06/05/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Glen Cassley Hydro	NC369201	dry heath	03/07/2013
Sron Lom Glen Cassley	NC358208	crags	03/07/2013
Coul Links	NH805952	sand dune	04/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Creag Mhor Strath Brora	NC730087	dry heath	07/07/2013

R Brora W of Braegrudie	NC715101	riverbank	07/07/2013
Braegrudie Strath Brora	NC717105	riverbank	07/07/2013
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
Helmsdale	ND033153	seaside grass	07/07/2013
West Rearquhar	NH732931	heathy bank	09/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Achosnich	NH727943	track	09/07/2013
Achvaich	NH710941	riverbank	09/07/2013
Sleastary	NH643963	croft	09/07/2013
Coill' an Tosgaire Oykel	NC340051	wet heath	09/07/2013
Coill' an Tosgaire Oykel	NC340051	riverbank	09/07/2013
Coirfrois Burn Pollie Hill	NC751152	stream	10/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Ben Tarvie path	NH760963	dry heath	11/07/2013
Ben Tarvie	NH750963	crag	11/07/2013
etc.			

NVC: CG 2-5; MG 1; OV 34, 37, 39-41; SD 7-12, 16, 19; MC 9-11

Lycopus europaeus L. *Gypsywort*

hel 6 †

Sides of rivers, canals, ponds, streams and ditches, damp woodland rides, fen carr, marshes and boggy places in woods. We are just north of its northern limit on the east coast of Scotland (it is frequent in Easter Ross, Inverness and Moray). Very local and rare. Not seen recently.

NH78

NVC: M 22; OV 26,32; S 1,3-6,8,12,14,15,25,26; W 1,5

Mentha arvensis L. *Corn Mint*

hp 5

Mentha gentilis L.

Damp cornfields, heaths, river-sides and damp woodland rides. Told from *M. pulegium* by the absence of hairs in the mouth of the calyx, and from *M. x gracilis* and *M. x smithiana* by the small (1.5-2.5mm) calyx with triangular (not subulate) teeth.

NC50 NC81 NC82

NVC: OV 15,30

Mentha x verticillata L. *Whorled Mint* = **M. arvensis x M. aquatica**

• hp 8

Margins of rivers, canals, brooks, ditches and ponds, and in marshes, etc. Common and widely distributed. Woodland rides and damp places. Occasional but not often reported from calcareous soils. This is a hairy plant with a small calyx (< 3.5mm) and included stamens.

Kyle road S of Auchintoul NH521993 15/08/1975 J.E. Kirby

NH59

[**Mentha x smithiana** R.A.Graham *Tall Mint* = **M. arvensis x M. aquatica x M. spicata**] • hp 8

This is an almost hairless plant with a larger calyx (> 3.5mm) and exerted stamens.

Recorded from Easternness and the Moray coast.

[**Mentha x gracilis** Sole *Bushy Mint* = **M. arvensis x M. spicata**] • hp 8

Mentha x gentilis auct., non L.

Mentha x cardiaca (Gray) Baker

This sterile hybrid has very short calyx teeth (< 1mm) and a short calyx tube (less than 2 times as long as wide) lacking any hairs in the mouth.

Recorded from Easternness and the Moray coast.

Mentha aquatica L. *Water Mint* hel 7

Sides of rivers, brooks, lochs and ponds, wet woodlands, fens, ditches, marshes and wet waste ground in towns. Our commonest mint; widely distributed. This is a fertile plant with ovate leaves and flowers in rounded heads. Told from *M. arvensis* by its terminal flower head (rather than an axis terminated by leaves).

NC40 NC50 NC51 NC60 NC70 NC71 NC80 NC90 NC91 ND01 NH69 NH78 NH79 NH89

R Brora Balnacoil	NC804110	river gravel	12/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Inveran	NH560970	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Backies	NC832012	ditch	06/07/2013
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Achinduich	NC580000	hamlet	12/06/2015
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Loch Preas nan Sgiathanach	NC678089	loch side	13/06/2015

NVC: A 1,8; M 13,22,24,27; MG 9,10,13; OV 26,28,31,32,35; S 3-8,12-16,18,19,22,23,25,26,28; W 1,5,6

Mentha x piperita L. *Peppermint* = **M. aquatica x M. spicata** • hp 8

Mentha x citrata Ehrh.

Mentha x dumetorum auct., non Schultes

Mentha x piperita L. var. *citrata* (Ehrh.) Briq.
Mentha x piperita L. nm. *citrata* (Ehrh.) J. Boivin

Pond-sides and wet places; local and rare. This plant has distinctly petiolate leaves and glabrous leaves and calyx tube. The Eau de Cologne Mint 'Citrata' has a rather sickly, lemony scent.

NC81 NH89

Mentha spicata L. *Spear Mint*

○ hp 8

Mentha longifolia auct., non (L.) Hudson

Mentha scotica R.A. Graham

Persistent on roadsides, waste ground and rubbish tips, in small patches. This is a fertile plant with sessile, elongated (not round) leaves that smell of spearmint when crushed. It can be hairless or hairy, and is very hard to tell from its hybrids. Garden mints are infamous for their rampant rootstocks, and it is often recommended that they should be grown in buckets rather than in beds where they are liable to be invasive. Because of this habit, they are often thrown out, and are common on waste ground in towns and villages.

NC50 NC60 NC73 NC82 NC90 NC91 NC92 ND01

Glaslochan Links N Brora	NC912060	stream	11/07/2010
S Embo links	NH815920	links	14/05/2011
Kirkton	NH799986	farmstead	10/07/2011
East Shore Street Helmsdale	ND029152	village	07/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Crask Inn	NC523246	hamlet	13/05/2015
West Langwell	NC698088	hamlet	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

Mentha x villosa Huds. *Apple-mint* = ***M. spicata* x *M. suaveolens***

● hp 8

Mentha x niliaca auct., non A.L. Juss. ex Jacq.

Mentha x alopecuroides Hull

Mentha x cordifolia auct., ? an Opiz ex Fresen.

Mentha x scotica auct., non R.A. Graham

Mentha x villosa Hudson nm. *alopecuroides* (Hull) R. Harley, nom. inval.

Mentha x rotundifolia (L.) Hudson subsp. *alopecuroides* (Hull) Malagarr.

Mentha x villosa Hudson var. *nicholsoniana* (Strail) R. Harley

Waste places, dunes and roadsides, typically as var. *alopecuroides* (Hull) Briq., this is the common apple-mint of gardens, and makes a long-persistent garden outcast. Often near water, forming small patches, but also on quite dry ground where it is indicative of former fly-tipping of garden waste. This is a sterile plant with rounded leaves that have spreading leaf teeth (not rolled under); the leaves are often both rugose and pubescent. Old records from Helmsdale and Strath Brora.

NC90 NC92 ND01

Braefoot Portgower	ND010135	cottages	11/07/2010
Pittentrail	NC726020	village	12/05/2011
S Embo links	NH815920	links	14/05/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Braefoot Portgower	ND013136	shingle	23/06/2011
Rogart Station	NC724019	railway	10/07/2011
Portgower	ND010135	hamlet	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Uppat Place Brora	NC903034	council houses	17/05/2012
Littleferry	NH806956	hamlet	07/05/2013
Embo	NH817928	village	08/05/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Embo Dunes	NH817929	dune backs	11/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

[*Mentha x rotundifolia* (L.) Huds. = *M. longifolia* x *M. suaveolens*] *False Apple-mint* • hp 8

Damp waste ground.

Recorded from Easterness and the Moray coast.

[*Mentha suaveolens* Eh.rh. *Round-leaved Mint*] • hp 8
Mentha rotundifolia auct. Non (L.) Huds.

Ditches and damp places. Uncommon

Recorded from Easterness and the Moray coast.

Lavandula angustifolia Loisel. *Garden Lavender* • n 6

This is the common, grey-leaved edging and bedding garden lavender. It occasionally self-seeds on paths and pavements, and more rarely on walls and waste ground in towns. The hybrid lavenders are sterile and therefore do not self-sow.

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churtyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Dalchalm	NC909056	village	12/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011

North Street Dornoch	NH797897	terrace	09/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Cavaig North Brora	NC894041	hamlet	10/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Braefoot Portgower	ND010135	hamlet	05/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
North Brora	NC909044	bungalows	19/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Lairg	NC579068	bungalows	10/05/2015
Pittentrail	NC726019	village	10/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Rosmarinus officinalis L. *Rosemary*

• n 4

A ubiquitous herb garden species, seeding freely and self-sown in a variety of dry sunny places like walls, banks, pavement cracks and open waste ground.

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
Kirkton	NH799986	farmstead	10/07/2011
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Loth Station Cottage	NC957100	hamlet	18/06/2015

Little Ferry	NH805956	hamlet	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

Salvia officinalis L. *Garden Sage*

• n 5

Ubiquitous in herb gardens, and occasionally as a garden outcast on waste ground. Rarely self-sown on walls and in paving cracks.

The Meadows Dornoch	NH799893	suburbia	10/04/2010
Biblical Gardens Golspie	NC837001	park	11/04/2010
Portgower	ND010135	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Pittentrail	NC726019	village	10/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

PHRYMACEAE

Mimulus moschatus Douglas ex Lindl. *Musk*

• hp 7

Margins of ornamental lakes and damp rockeries; very local and rare.

Allt an Rasail Glen Cassley NC449060 15/08/1984 E. Charter

NC30 NC40 NC50 NC70 NC73 ND01

Mimulus guttatus DC. *Monkeyflower*

• hel 7

Mimulus langsdorffii Donn

Mimulus luteus auct., non L.

Margins of unpolluted streams and marshes, thoroughly established and forming locally a conspicuous feature in our flora. Widespread in the lowlands, but much less abundant here than in some other parts of Scotland.

NC31 NC33 NC40 NC50 NC60 NC70 NC80 NC90 NC91 ND01 NH69 NH78 NH79 NH89

A836 N of Invershin	NH579954	roadside	12/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Loch Rosail	NC717402	loch side	11/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Skibo Castle S fountain cave	NH735891	stonework	10/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Torboll Farm S	NH750980	composite	11/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012

Allt Horn Dunrobin Glen	NC801049	conifer plantation	06/07/2013
Navidale Farm	ND042161	wetland	07/07/2013
Drochaid na h-Uidh	NH642956	ditch	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Navidale Stream	ND042160	stream	17/06/2015

NVC: S 15

[Mimulus guttatus x (M. luteus x M. cupreus)] ● hel 7
 Mimulus polymaculus Silverside nom. nud.

This is a sterile garden escape with the petals having dark blotches and the plant is hairy above.

Mimulus x robertsii = M. guttatus x luteus *Hybrid Monkeyflower* ● hel 7

Bright yellow petals with orange to red or purplish-brown spots and blotches. Usually sterile. The calyx is never petaloid. Inflorescence with short white hairs. Uncommon

NC40 NC50 NC60 NC70 NC91 NH69 NH79 NH89

Backies	NC832012	ditch	06/07/2013
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Mimulus x burnetii = M. guttatus x cupreus *Coppery Monkeyflower* ● hel 7

Petals copper-coloured, with a lighter throat with red spots but no dark blotches on the petals. Inflorescence with short white hairs. Uncommon

Achany Bridge Lairg	NC570020	07/08/1999	BSBI
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NC50

Ballinreach	NC932083	swamp	23/06/2011
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Mimulus luteus L. *Blood-drop-emlets* ● hel 7
 Mimulus variegatus J. St. Hil.
 Mimulus nummularius (Clos) Stace

Over-recorded for *M. x. robertsii*. Leaf teeth irregular, oblong and often twisted (not triangular and flat). Very uncommon if present at all. No recent records.

NC51 NC91

Mimulus x maculosus = M. luteus x cupreus *Scottish Monkeyflower* ● hel 7

Cream or yellow petals with coppery-orange blotches, often joined up. Leaf teeth triangular and flat (not irregular, oblong and twisted). This is the taxon that looks superficially like *Blood-drop-emlets*. Locally frequent, and slightly more common than *Mimulus guttatus* in many parts.

Burnside	NH608926	ditch	09/07/2011
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Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011

OROBANCHACEAE

Melampyrum pratense L. *Common Cow-wheat*

th 5

Melampyrum pratense subsp. **pratense**

Woods, wet heaths and dry heaths. Below the bracts, the uppermost leaves are 2-8cm x 2-10mm, about 7-15 times as long as wide (much longer and thinner than subsp. *commutatum*). Widespread and common.

Rogart	NC730020	19/07/1961	Webster, Ms M.M.
Rogart	NC728020	15/09/1973	Huntley, Dr B.
Rogart	NC733018	15/09/1973	Huntley, Dr B.
Ben Hee		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC82 NC83 NC84 NC91 NC92 NC93 ND01 NH59 NH68
 NH69 NH78 NH79

Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
An Dubh-lon	NC695324	blanket bog	20/06/2011
Lochan Dubh	NC725322	blanket bog	20/06/2011
Ben Griam Mor summit	NC803389	dry heath	21/06/2011
Beinn Rosail watershed	NC701404	wet heath	22/06/2011
Salmon ladder	NH740980	composite	11/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Borrobol Forest	NC803255	woodland	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg E side	NC850400	wet heath	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Beg E side	NC860400	wet heath	15/07/2011
Ben Griam Beg E side	NC870400	wet heath	15/07/2011
Creag Dhubh	NC800390	composite	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Creag a'Bhodaich Sletdale	NC914142	wet heath	01/07/2013
Glen Sletdale	NC915155	wet heath	01/07/2013
Glen Sletdale	NC902157	stream bank	01/07/2013

Glen Sletdale	NC909148	stream bank	01/07/2013
Creag a'Bhodaich Sletdale	NC911149	stream bank	01/07/2013
Carn Garbh Glen Sletdale	NC908136	dry heath	01/07/2013
Allt a'Choire Riabhaich	NC909129	wooded stream	01/07/2013
Creag a'Chrionaich Sletdale	NC924115	dry heath	01/07/2013
Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Ben Horn E crags	NC810062	conglomerate	06/07/2013
Ben Horn mid slopes	NC805062	wet heath	06/07/2013
Meall Meadhoin	NC800067	wet heath	06/07/2013
Meall Dubh Dunrobin Glen	NC794064	wet heath	06/07/2013
Meall Odhar Dunrobin Glen	NC787060	wet heath	06/07/2013
Loch Horn	NC795056	wet heath	06/07/2013
R Brora W of Braeigrudie	NC715101	riverbank	07/07/2013
R Brora	NC714101	ravine birch wood	07/07/2013
Braeigrudie Strath Brora	NC717105	riverbank	07/07/2013
R Brora W of Braeigrudie	NC712103	riverbank	07/07/2013
Meall an Fheur Loch	NC364307	wet heath	08/07/2013
Coill' an Tosgaire Oykel	NC340051	wet heath	09/07/2013
Coill' an Tosgaire Oykel	NC344050	birch wood	09/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Creagandamph	NC736164	wet heath	10/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
Meall nan Aighean	NC690287	upper heath	12/07/2013
Coire na Saidhe Duibhe	NC689285	crags	12/07/2013
Coire na Saidhe Duibhe	NC695282	crags	12/07/2013
Ben Armine	NC694273	summit heath	12/07/2013
Creag Mhor Ben Armine	NC698240	summit heath	12/07/2013
Creag Mhor Ben Armine	NC702238	crags	12/07/2013
Fiag Road	NC465210	wet heath	26/06/2014
S of Loch na Caillich	NC515072	wet heath	24/06/2014
Cnoc Ascaig	NC865233	summit heath	27/06/2014
S of Loch Fiag	NC453279	wet heath	26/06/2014
Fiag Road	NC456270	wet heath	26/06/2014
Tuarie Burn	NC833204	wet heath	27/06/2014
Cnoc Maol na Cloiche Gile	NC434287	summit heath	26/06/2014
Craggie	NC875199	wet heath	27/06/2014
Cnoc na Cloich-bhuaile	NC523042	wet heath	24/06/2014
Cnoc Riabhach	NC533071	wet heath	24/06/2014
Helgary	NC850201	wet heath	27/06/2014
Cnoc Tuarie	NC829213	summit heath	27/06/2014
Fiag Road	NC457256	wet heath	26/06/2014
Cnoc Craggie E flank	NC902193	wet heath	27/06/2014
NW Grudie Burn	NC505066	wet heath	24/06/2014
Halliagarry Hill	NC845226	summit heath	27/06/2014
W of Loch Fiag	NC440295	wet heath	26/06/2014
Cnoc Craggie	NC896196	summit heath	27/06/2014
Cnoc a Choire	NC502048	wet heath	24/06/2014
W of Loch Fiag	NC446286	wet heath	26/06/2014
Creag Dal-Langal	NC892219	wet heath	27/06/2014
Loch a' Ghorm-choire	NC438327	heather	26/06/2014

Cnoc Craggie W flank	NC885195	wet heath	27/06/2014
Raemore Wood Gruids	NC529047	conifer plantation	24/06/2014
Fiag Road	NC463230	wet heath	26/06/2014
Leathad Creagach	NC624028	wet heath	25/06/2014
Craggie Water at Craggie	NC876197	rocky stream	20/06/2015
Allt Dail Bhaich watershed	NC884202	wet heath	20/06/2015
Tuarie Burn	NC832204	heather	20/06/2015
Creag Dal-Langal	NC895213	heather	20/06/2015
S of Forsinard lochans	NC869419	wet heath	15/06/2015
Allt Breac Helmsdale	NC958186	stream	17/06/2015

NVC: M 19; W 10, 15; H 18, 21, 22

Melampyrum sylvaticum L. *Small Cow-wheat*

th 5

A very rare and local species in Scotland. The fruit contains 2 seeds (not 4), the lower lip of the corolla is strongly turned down (reflexed, not parallel with the lower edge of the tube) and the lower two calyx lobes are spreading (not upswept). Very local and rare. Over-recorded in the past for *M. pratense*. Not seen recently, despite repeated searches.

Rogart		15/07/1950	Elizabeth Charter
Rogart	NC730020	19/07/1961	M. McC. Webster
Little Rogart		15/07/1978	J.K. Butler

NC70

NVC: W18, not recorded in Rodwell (1991), but most frequent in ancient Caledonian pinewoods

Euphrasia L. *Eyebrights*

A difficult group, not least because of the existence of more than 70 wild hybrids. You should collect 5 or more healthy but otherwise typical individuals, and determine ranges (not means) from fresh material of quantitative characters like flower size and the node number bearing the lowest flowers (counted upwards from the root; do not count the cotyledon scar as a node). Widespread and abundant as *Euphrasia officinalis* aggregate:

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH39 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Note, however, that there are no records of any of the three subspecies of *Euphrasia officinalis* L. ss. in vc. 107.

Euphrasia arctica ssp. **borealis** (F. Towns) Yeo

th 7

Abundant stalked glands. Corolla 6-9mm, capsule 4.5-6.5mm. The commonest bulky eyebright with us (c.f. *Euphrasia micrantha*). Frequent in grassy places.

NC32 NC41 NC42 NC43 NC50 NC51 NC60 NC62 NC70 NC71 NC72 NC73 NC80 NC81 NC83
NC90 NC91 NC92 NC93 ND01 NH78 NH79 NH88 NH89

Birichen	NH765923	roadside	09/07/2011
Tulloch	NH613925	ditch	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Ach an Fhionnfhuaraidh	NC899240	grassland	13/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Hill of Ord Lairg	NC577055	plantation	15/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Navidale	ND034168	hamlet	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Upper Suisgill Kildonan	NC897250	streamside	05/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Allt Horn Dunrobin Glen	NC801491	conifer plantation	06/07/2013
Doire Dubh Loch Merkland	NC365325	grassland	08/07/2013
Coill' an Tosgaire R Oykel	NC340515	riverbank	09/07/2013
Craggie Water	NC899189	stream bank	27/06/2014
Achue turning	NH684894	roadside	24/06/2014
Crackaig Links	NC961099	sand dunes	18/06/2015
Allt Breac Helmsdale	NC958186	stream	17/06/2015

[**Euphrasia x difformis** = **E. arctica** x **E. micrantha**]

th 7

Recorded from Easternness and the Moray coast.

Euphrasia x venusta = **E. arctica** x **E. scottica**

th 7

Very local and rare.

NC50

[**Euphrasia tetraquetra** (Breb.) Arrond. *Western Eyebright*]

th 7

Corolla 5-7mm, lowest flower at node 5-7. Cliffs and dunes by the sea. Coasts of Caithness, Easter Ross, Easternness and the Moray Firth, but apparently with a gap in its distribution though vc. 107.

Euphrasia nemorosa (Pers.) Wallr.

th 7

Euphrasia officinalis L. var. *nemorosa* Pers.

Euphrasia curta (Fries) Wettst.

Corolla 5-7.5mm, lowest flower at node 10-14. Short turf on dunes and dry heaths. Local and uncommon.

Dornoch

John Anthony det. P.F. Yeo

NC80 NH78 NH89

Crackaig Links	NC958097	sand dunes	23/06/2011
Brora Golf Course	NC912041	sand dunes	23/06/2011

Euphrasia confusa Pugsley *Confused Eyebright*

th 7

No glandular hairs. The lowest bract-teeth point outwards (patent). Corolla 5-9mm, lowest flower at node 5-12. Short turf on dry heaths.

NC52 NC72 NC80 NC81 NC91 NH69

Navidale	ND034168	hamlet	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Sron Lom Glen Cassley	NC357208	crag	03/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Dunrobin Beach	NC842264	coastal grassland	06/07/2013
Braegrudie Strath Brora	NC717105	riverbank	07/07/2013
Doire Dubh Loch Merkland	NC365325	grassland	08/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
West Rearquhar	NH732931	grassland	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Coirfrois Burn Pollie Hill	NC751152	stream	10/07/2013
Meall nan Aighean	NC690285	snow-lie	12/07/2013
Meall nan Aighean	NC693303	pony track	12/07/2013
Ben Armine	NC694273	summit heath	12/07/2013
Creag Mhor Ben Armine	NC698240	summit heath	12/07/2013

[Euphrasia confusa x E. scottica]

th 7

Very rare to the north of vc. 107 in West Sutherland.

Euphrasia frigida Pugsley *Upland Eyebright*

th 7

Corolla 4.5-7mm, lowest flower at node 2-4. Grassland and rock outcrops in the mountains.

NC43 NC52 NC63 NC83 NC90

[Euphrasia frigida x E. scottica]

th 7

Very rare to the north of vc. 107 in West Sutherland.

Euphrasia foulaensis F. Towns. ex Wettst *Foula Eyebright*

th 7

Corolla 4-6mm, lowest flower at node 4-6. Exposed short turf on sea cliffs.

Dornoch

John Anthony det. P.F. Yeo

The Mound NH 790960 1977 Derek Ratcliffe

NC80 NH78 NH79 NH88

Dornoch Links E NH790880 sand dune 14/07/2011 Pankhurst,
Robinson, Crossley & Borradaile

Euphrasia ostenfeldii (Pugsley) Yeo *Ostenfeld's Eyebright* th 7
Euphrasia curta auct. non (Fr.) Wettst.

Corolla 4.5-6mm, lowest flower at node 4-7. Grassy, stony and sandy places by the sea. Very local and rare.

ND01

Euphrasia ostenfeldii x **E. micrantha** th 7

ND01

Euphrasia micrantha Rchb. *Slender Eyebright* th 7
Euphrasia gracilis (Fries) Drejer
Euphrasia ? *rhumica* Pugsley

Corolla 4.5-6.5mm, lowest flower at node 6-14. Dry heath with *Calluna vulgaris*. This slender, erect, dark purple coloured plant occurs in open places on acid, sandy heaths. It has tiny leaves, long internodes, and the calyx teeth exceed the fruit. Our commonest slender eyebright (c.f. *Euphrasia arctica* ssp. *borealis*). Widespread and frequent.

Ben Griam Mor

John Anthony det. P.F. Yeo

NC30 NC31 NC32 NC40 NC41 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71
NC72 NC73 NC74 NC80 NC81 NC83 NC90 NC91 NC92 NC93 ND01 NH69 NH78 NH79

An Cnoc Buidhe	NC876282	dry heath	19/06/2011
Meall an t-Socaich	NC773332	gravel pit	20/06/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Mor	NC800390	composite	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Carn Garbh Glen Sletdale	NC906142	crags	01/07/2013
Carn Garbh Glen Sletdale	NC906134	crags	01/07/2013
Glen Sletdale	NC915161	crags	01/07/2013
Glen Sletdale	NC927125	bracken	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Allt Car Beag Loch Shin	NC480162	wet heath	02/07/2013
Allt Bad a'Ghordanaich	NC495151	wet heath	02/07/2013

Cnoc a'Choire Leacach	NC513130	dry heath	02/07/2013
Allt a'Bhann Loch Shin	NC515127	dry heath	02/07/2013
Cnoc a'Choire Leacach	NC520121	dry heath	02/07/2013
The Airde Loch Shin	NC525142	dry heath	02/07/2013
Cnoc a'Choire Leacach	NC526118	dry heath	02/07/2013
Cnoc a'Choire Leacach	NC531116	dry heath	02/07/2013
Cnoc a'Choire Leacach	NC539108	dry heath	02/07/2013
Cnoc a'Choire Leacach	NC543104	dry heath	02/07/2013
N of Sallachy	NC544959	dry heath	02/07/2013
Allt Salachaidh Sallachy	NC547891	dry heath	02/07/2013
Coill' an Tosgaire Oykel	NC340515	wet heath	09/07/2013
Beinn Domhnaill	NH677966	dry heath	09/07/2013
Achormlarie Forest	NH693949	forest road	09/07/2013
Creag Ach a'Bhathaich	NH706946	dry heath	09/07/2013
Creagan Dubh	NH727945	crags	09/07/2013
Meall Loch Laoigh	NH735956	dry heath	09/07/2013
Creagan na Moine	NH742945	dry heath	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Coirfrois Burn Pollie Hill	NC751152	stream	10/07/2013
Cnoc Dubh Beag	NH674925	dry heath	11/07/2013
Ben Tarvie path	NH760963	dry heath	11/07/2013
Meall nan Aighean	NC690285	snow-lie	12/07/2013
Meall nan Aighean	NC693303	pony track	12/07/2013
Ben Armine	NC694273	summit heath	12/07/2013
Creag Mhor Ben Armine	NC698240	summit heath	12/07/2013
Raemore Wood Gruids	NC542045	conifer plantation	24/06/2014
Craggie Water	NC889189	stream bank	27/06/2014
Dalbhat on the Craggie road	NC902213	track	27/06/2014
Dalbhat on the Craggie road	NC898210	wet heath	27/06/2014
Craggie Road	NC888206	wet heath	27/06/2014
E of Loch Fiag	NC453287	wet heath	26/06/2014

Euphrasia scottica Wettst. *Scottish Eyebright*

th 7

No glandular hairs. Leaves green above, purple below. Corolla 4.5-6.5mm, lowest flower at node 3-6. Wet moorland; typically flowering before *E. micrantha* and less darkly pigmented on stems and leaves.

Loch Buidhe NH 674 985 12/07/1959 Smith, A.J.E. **NMW**
The Mound John Anthony det. P.F. Yeo

NC30 NC31 NC40 NC41 NC43 NC52 NC60 NC61 NC70 NC74 NC81 NC83 NC90 NC92 ND01
NH78 NH79

Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Inchcape	NC690030	composite	16/07/2011

Loch Airighe Mhor	NC690020	composite	16/07/2011
Navidale	ND034168	hamlet	01/07/2013
Glen Sletdale	NC927125	bracken	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Druim nan Comhrag	NC901261	streamside	05/07/2013
Doire Dubh Loch Merkland	NC365326	craggs	08/07/2013



The watershed (199 m) west of Beinn Domhnaill; tussocks of *Eriophorum vaginatum* dominate the wet heath on the high ground separating Loch Buidhe from Loch an Lagain, north of Bonar Bridge

Odontites vernus (Bellardi) Dumort. *Red Bartsia* th 7
Euphrasia verna Bellardi

All three subspecies are recorded, but subsp. *vernus* is probably much commoner than subsp. *serotinus* in vc. 107.

NC40 NC50 NC80 NC90 NC91 NC92 ND01 NH68 NH69 NH78 NH79 NH88 NH89

Odontites vernus subsp. *vernus* th 5

Coastal fields and roadsides. Branches few (up to 4 pairs), less spreading (less than 50 degrees to the stem), intercalary leaves absent or single; spring flowering. Frequent in the lowlands.

Dornoch Industrial Estate NH797898 waste ground 09/07/2011

Odontites vernus subsp. **serotinus** (Syme) Corb.

th 7

Bartsia odontites (L.) Hudson var. *serotina* Syme

Odontites ruber Gilib., nom. inval.

Odontites vernus (Bellardi) Dumort. subsp. *pumilus* (Nordst.) A. Pedersen

Odontites vulgaris Moench subsp. *pumilus* (Nordst.) Soó

Branches numerous (up to 8 pairs) and more spreading (50 or more degrees to the stem, often almost at right angles); intercalary leaves numerous (2-7 pairs rather than 0-1); late flowering. Rare.

Lairg Station	NC583039	railway	06/09/2012
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Dornoch Common Good	NH805884	sand dune	30/06/2013
Raemore Wood Gruids	NC540046	grassland	24/06/2014

Odontites vernus subsp. **litoralis** (Fr.) Nyman

th 5

Muddy, gravelly and rocky sea shores. Calyx teeth triangular (not narrowly triangular), shorter than the calyx tube. The style is included within (not exerted from) the corolla hood at anthesis. Early flowering. Local and rare in the south-east.

NH78 NH79 NH88 NH89

Dornoch Common Good	NH801879	salt marsh	13/07/2010
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Loch Fleet at Balblair Wood	NC804975	salt marsh	07/07/2013
Dornoch Common Good	NH804881	salt marsh	29/06/2014

[**Rhinanthus angustifolius** C. C. Gmel. *Greater Yellow Rattle*]

th 5

Rhinanthus serotinus (Schonh.) Oborny

Arable and grassy fields and sandy places near the sea. Rare and over-recorded.

Recorded from Easternness and the Moray coast.

Rhinanthus minor L. *Yellow-rattle*

th 5

Meadows, pastures, heaths; locally abundant. Hemiparasitic on the roots of grasses, and in dry seasons much retards the growth of grass crops; it is erratic in its occurrence, being abundant in a field one season and rare or absent from it in the next. The sub species have yet to be worked out in detail for vc. 107.

Rhinanthus minor subsp. **minor**

This is a hay meadow plant which sets its seeds before the first hay cut in June. Intercalary leaves mostly 0; lowest flower at node 6-9; leaves parallel-sided. Spring-flowering.

NC40 NC50 NC83 ND01 NH59

Rhinanthus minor subsp. **stenophyllus** (Schur) O. Schwarz

Rhinanthus minor L. var. stenophyllus Schur

Rhinanthus stenophyllus (Schur) Druce

Stems typically more than 25cm (to 50 cm) with several pairs of long flowering branches from near the base. Intercalary leaves in 1 to 2 pairs; lowest flower at node 8-13, leaves tapering from the base. Autumn flowering. Occasional in the lowlands (commoner than subsp. *minor*).

Golspie	15/08/1902	W.C. Burton det. AJW
Lairg	15/08/1919	AJW det. AJW
Dornoch	15/08/1919	AJW det. AJW

NC32 NC40 NC50 NC52 NC60 NC70 NC73 NC80 NC82 NC83 ND01 NH69 NH78 NH79 NH88

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Ord of Caithness	ND057179	roadside	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Maikle Kyle of Sutherland	NH595936	tidal riverbank	12/07/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
S Embo links	NH815920	links	14/05/2011
Birichen	NH765923	roadside	09/07/2011
Burnside	NH609926	lane	09/07/2011
Tulloch	NH613925	ditch	09/07/2011
Balvraid Wood	NH775940	plantation	09/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Skelbo Wood	NH731943	plantation	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Ach an Fhionnfhuaraidh	NC899240	grassland	13/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Ben Griam Mor W crags	NC800380	crag	15/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Kildonan Bridge	NC902216	riverbank	09/09/2012

Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Doire Dubh	NC365326	streamside	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Lairg Station	NC583039	railway	06/09/2012
Glen Loth	NC943118	streamside	17/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012
Dornoch Airstrip Windsock	NH800883	dune slacks	08/05/2013
Achue turning	NH684894	roadside	24/06/2014
Creag Thoraraidh Helmsdale	ND033184	tarmac	14/06/2015
Dornoch Common Good	NH807885	fore dune	11/06/2015
Creag nan Gearr	NC956244	summit heath	17/06/2015
Dornoch Common Good	NH807875	high dunes	11/06/2015
Blar Buidhe Helmsdale	NC956212	wet heath	17/06/2015
Beinn Dubhain Helmsdale	NC937207	dry heath	17/06/2015

Rhinanthus minor subsp. **monticola** (Sterneck) O. Schwarz

Rhinanthus monicola (Sterneck) Druce

Rhinanthus spadicus Wilmott

Stems typically less than 25cm with few (0 to 3) long flowering branches from near the base. Corolla dull brownish yellow. Autumn flowering. Grassy places in the hills. Uncommon.

Skelbo	15/08/1919	AJW det. AJW
Embo	15/08/1919	AJW det. AJW
Baloraich	15/08/1919	AJW det. AJW
Beinn Rosail	15/08/1988	F.H. Perring

NC41 NC74 NH78 NH79 NH89

Hilton	NH804915	hamlet	04/07/2013
Suisgill Burn Kildonan	NC902265	<i>Juncus</i> flush	05/07/2013
Allt Horn Dunrobin Glen	NC801049	conifer plantation	06/07/2013
R Brora W of Braegrundie	NC715101	riverbank	07/07/2013
Braegrundie Strath Brora	NC717105	riverbank	07/07/2013
R Brora W of Braegrundie	NC712103	riverbank	07/07/2013
Coill' an Tosgaire Oykel	NC340051	riverbank	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Meall Mor W flank	NH645968	roadside	25/06/2014
Loch Buidhe inflow delta	NH652983	loch shore	25/06/2014
Dornoch Common Good	NH805883	stable dunes	29/06/2014
Craggie Water	NC913192	rocky stream	27/06/2014
Meall Mor W flank	NH652982	roadside	25/06/2014
Allt Garbh-airigh	NC632002	wet heath	25/06/2014
Meall Mor W flank	NH647975	roadside	25/06/2014
Rosehall Forest Trails	NC479018	pine plantation	28/06/2014
Meall Mor W flank	NH649980	roadside	25/06/2014

Rhinanthus minor subsp. **lintonii** (Wilmott) P. D. Sell

Rhinanthus lintonii Wilmott

Rhinanthus lochabrensis Wilmott

Rhinanthus gardineri Druce

Grassy places on the mountains. Autumn flowering. The calyx is hairy only on the margins (not all over).

NC52 NC83

Doire Dubh Merkland	NC365326	crag	08/07/2013
Coire na Saidhe Duibhe	NC689285	crag	12/07/2013
Coire na Saidhe Duibhe	NC695282	crag	12/07/2013
Creag Mhor Ben Armine	NC702238	crag	12/07/2013

Rhinanthus minor subsp. ***borealis*** (Sterneck) P. D. Sell

Grassy places on the mountains. Autumn flowering. Told from *lintonii* by the lowest flower at node 5-7 (not 7-10) and absence of intercalary leaves (not 0-3).

Meall an Fheur Loch 15/07/1973 A.G. Kenneth

NC33 NC43 NC84

Pedicularis palustris L. *Marsh Lousewort*

th 5

In marshes and shady fens; locally frequent. Single erect stem, corolla with one terminal and two pairs of lateral teeth.

NC30 NC31 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71
NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NH59 NH69 NH78 NH79
NH89

Linsidemore Wood	NH498998	riverbank	12/07/2010
Reidh Lochan	NC742070	loch side	12/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Ach an Fhionnfhuaraidh	NC899243	deer enclosure	19/06/2011
Halmdarie Burn	NC697302	rocky stream	20/06/2011
Kilbraur Wind Farm	NC767070	loch	22/06/2011
Mound Rock	NH770980	composite	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Cathair Thurnaig	NC390008	loch	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011

Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Glen Loth watershed	NC935158	roadside	09/09/2012
Embo Muir	NH802936	swamp	04/07/2013
Grumby Rock	NC712102	wet heath	07/07/2013
Cnoc na Sguaibe	NC692103	wet heath	07/07/2013
Meall Achadh na Luachred	NC677108	wet heath	07/07/2013
Cnoc Blar an Dubhaidh	NC719112	dry heath	07/07/2013
Braegrudie Strath Brora	NC717105	riverbank	07/07/2013
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
Craigton	NH626961	farmyard	09/07/2013
Allt Garbh-airigh	NH634998	wet heath	25/06/2014
The Carnegie Road Garvary	NH635990	wet grassland	25/06/2014
Allt Garbh-airigh	NC632002	wet heath	25/06/2014
Doll Ford Bridge	NC870044	riverbank	11/05/2015
Loch Buidhe inflow delta	NH652983	loch shore	25/06/2014
Loch Laro W	NH609995	loch side	12/06/2015

NVC: M 8-10, 13, 15, 22, 29; S 9, 24, 25

Pedicularis sylvatica L. *Lousewort*
Pedicularis sylvatica subsp. *sylvatica*

hp 4

Wet heath, dry heath, moors, cottongrass bogs and heathy grasslands. Several stems, corolla with one terminal and one pair of lateral teeth. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH89

NVC: H 4-6, 8; M 10, 14-17, 24

[Lathraea squamaria L. *Toothwort*]

grh 4

A charismatic, ghost-white plant of shady, damp woods. Parasitic on the roots of *Corylus* and *Ulmus*

Recorded from Easternness.

[Orobanche alba Stephan ex Willd. *Thyme Broomrape*

• p 6

Recorded from West Sutherland. There are no records of any broomrapes from vc. 107.

LENTIBULARIACEAE

Pinguicula lusitanica L. *Pale Butterwort*

hr 5

Bogs and wet heaths. A local gem of uplands in the west.

Creag a Bheolaich 500ft	NH682918		John Anthony
E of Loch Migdale 150ft	NH655905		John Anthony
Suisgill Burn 600ft	NC918218		G. Wilkens
Suisgill Burn 900ft	NC940269		Elizabeth Charter
Glen Fiag	NC45-24-	29/06/98	Rothero, Mr G.P.

NC30 NC40 NC41 NC42 NC51 NC52 NC63 NC71 NC73 NC74 NC92 NH59 NH69 NH79

Steall a'Choire	NC370280	wet heath	13/07/2011
W of Merkland River	NC384284	wet heath	13/07/2011
Doire Dubh	NC370332	bog pool	13/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Loch Airighe Mhor	NC698026	bog pool	16/07/2011
Loch Airighe Mhor	NC690020	wet heath	16/07/2011

NVC: M 10, 14, 16, 21; H 5

Pinguicula vulgaris L. *Common Butterwort*

hr 5

Wet heath, stream banks and bogs. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH79 NH88 NH89

NVC: M 8-13, 15, 17, 19, 31, 32, 34, 37; H 17

Utricularia vulgaris L. *Greater Bladderwort*

hyd 7

Base-rich still or slow water; lochans. Locally frequent but uncommon and flowering sporadically.

All the stems are the same, with green leaves and bladders.

NC31 NC32 NC33 NC40 NC42 NC50 NC52 NC60 NC62 NC70 NC74 NC82 NH69 NH79

NVC: not classified

[Utricularia australis R. Br. *Bladderwort*]

hyd 7

Utricularia vulgaris auct., non L.

Utricularia major auct., non Schmidel

Utricularia neglecta Lehm.

Acidic still water in lochans. All the stems are the same, with green leaves and bladders. Very tricky to tell from *U. vulgaris*; see Stace (2010) for details.

Recorded from several of the neighbouring vice counties, but always local and rare.

Utricularia intermedia L. *Intermediate Bladderwort* hyd 7

Shallow water in peaty bogs and marshes. Stems are of two sorts; the floating ones lack bladders, and the anchored ones with frequent bladders have few green leaves. Over-recorded for both *U. ochroleuca* and *U. stygia*. It has never been recorded in flower in Britain.

NW end Loch Lunndaith	NC781014	18/08/1978	M.J. Marshall det. P. Taylor
opposite Achany S Lairg	NC528026	22/07/1984	J.K. Butler

NC30 NC32 NC33 NC41 NC42 NC50 NC52 NC60 NC70 NC93 NH69 NH79

Loch na Caillich	NC500080	peaty pool	16/07/2011 R. Pankhurst
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NVC: A 13; S 2, 4

Utricularia stygia G. Thor. *Nordic Bladderwort* hyd 7

Shallow water in peaty bogs and marshes. Stems are of two sorts; the floating ones with a few bladders, and the anchored ones with frequent bladders have few green leaves. Margins of the leaves with many teeth with bristles (2-7 rather than 0-5); for details of how to tell this species from *U. ochroleuca*, see Stace (2010).

NC40 NC41 NC73

Gearnsary	NC732321	07/07/1998	Gordon Rothero
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero
Beinn an Rosail Beag	NC410137	07/07/1999	Gordon Rothero
Woodburn	NH525991	marsh	12/07/2011 J. McIntosh

[Utricularia ochroleuca R. W. Hartm. *Pale Bladderwort*] hyd 7

Shallow water in peaty bogs and marshes. Stems are of two sorts; the floating ones with a few bladders, and the anchored ones with frequent bladders have few green leaves

Recorded from several of the neighbouring vice counties. Greatly under-recorded, and possibly the commonest of the three species with us (see Stace (2010) for details).

Utricularia minor L. *Lesser Bladderwort* hyd 7
Utricularia bremii auct., non Heer

Boggy pools and ditches. The margins of the leaf segments lack teeth with bristles. The flowers are small (corolla lip less than 8mm and the spur less than 3mm).

NC32 NC42 NC50 NC52 NC60 NC70 NC71 NC74 NH69 NH79

Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011 J. McIntosh
Loch Airighe Mhor	NC698026	bog pool	16/07/2011 J. McIntosh

NVC: A 13, 24; S 2, 4, 8, 19

ACANTHACEAE

[**Acanthus mollis** L. *Bear's-breech*] ● hs 6

This is a statuesque herbaceous border plant which is long-lived as an outcast on dry waste ground or in hedgerows; it will not survive over winter in wet soil.

Acanthus spinosus L. *Spiny Bear's-breech* ● hs 6

Grown less commonly than *A. mollis* and found outside gardens much less frequently.

Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Loth Station Cottage	NC957100	hamlet	18/06/2015

BIGNONIACEAE

[**Catalpa bignonioides** Scop. *Indian Bean-tree*] ● mm 6

An occasional street tree or park tree in towns, often hung with a heavy crop of long thin 'bean pods'. Sowing itself rather uncommonly.

VERBENACEAE

[**Verbena rigida** Spreng. *Slender Vervain*] ● h 6

A sporadic garden escape.

Verbena x hybrida Groenl. & Ruempl. *Common Garden Verbena* ● h 6

Very popular as a bedding plant and in hanging baskets, where the plant is typically treated as an annual. There is a wide range of colours, but the purple-blue flowered cultivars are most commonly seen as self-sown escapes.

Golspie High Street N end	NC837002	terrace	06/07/2013
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Verbena bonariensis L. *Argentinian Vervain* ● h 7

A very tall herbaceous late summer border plant (up to 1.5m), sometimes found on roadsides in towns and on waste ground in villages. This plant has a world-wide distribution as a roadside alien, commonest in the sub-tropics and warm temperate regions (it is native to South America). Told from *V. litoralis* by the location of insertion of the stamens (at or below the middle of the corolla tube, rather than well above the middle) and by corolla size (5-6.6mm rather than 3-3.5mm).

Briar Cottage Doll	NC883032	hamlet	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012

Verbena officinalis L. *Vervain*

○ h 7 †

Dry grassland, dry banks on riversides, roadsides and waste places near houses in sunny situations on calcareous soil. Local and in small quantity, decreasing. Very local and rare below Carrol Rock NC848077. No recent records.

NC80

NVC: not classified

[Caryopteris x clandonensis A. Simmonds ex Rehd. *Bluebeard*]

● n 6

A commonly planted shrub for its late summer blue flowers (often with *Ceratostigma* and *Perovskia*). Very rare as a self-sown plant.

AQUIFOLIACEAE

Ilex aquifolium L. *Holly*

mm 5

Woods, cliffs and hedges. A common garden plant, occasionally self-seeding. Planted in churchyards and parkland. Occasional.

NC33 NC50 NC52 NC60 NC62 NC63 NC70 NC80 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Creag na h-Uidhe	NC 383371	upland heath	27/07/2010	Mark Jannink
Clashmore	NH747895	village	10/07/2010	
Bonar Bridge	NH611911	suburbia	12/07/2010	
Ledmore Wood	NH664893	ancient woodland	12/07/2010	
Camore	NH778903	council houses	12/07/2010	
Rosehall Church	NC485012	churchyard	10/05/2011	
Rogart Church	NC738035	churchyard	12/05/2011	
Marians Rock	NC747012	cliff	13/05/2011	
St Andrew's Golspie	NC837002	churchyard	09/05/2011	
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011	
Big Burn Golspie	NC840009	woodland	07/05/2011	
N Brora	NC904051	bungalows	12/05/2011	
Brora Harbour	NC909037	village	12/05/2011	
Free Church Migdale	NH626921	churchyard	07/05/2011	
Rhianrivach	NH629929	hamlet	13/05/2011	
Kyloag Migdale	NH662909	woodland	07/05/2011	
Overskibo woods	NH727899	pine plantation	14/05/2011	
Carnegie Wodland	NH732892	parkland	09/05/2011	
Skibo Castle car park	NH735892	waste ground	09/05/2011	
Skibo Castle S aspect	NH736890	gardens	09/05/2011	

Skibo Castle N aspect	NH736891	gardens	09/05/2011
Astle	NH745919	hamlet	10/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Drumliah	NH608931	ruined croft	09/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Linsidemore	NH540990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
etc.			

NVC: W 4-10, 12-18, 21

[Ilex x altaclerensis (hort. ex Loudon) Dallim. *Highclere Holly*]
Ilex aquifolium L. var. *altaclerensis* hort. ex Loudon

• mm 5

Occasional in gardens and parkland.

CAMPANULACEAE

Campanula rapunculus L. *Rampion Bellflower*

○ hs 7

Dry grassland and banks; very rare and decreasing.

NH78

Campanula lactiflora M. Bieb. *Milky Bellflower*
Gadellia lactiflora (M. Bieb.) T.V. Schul'kina

• hs 6

Waysides and waste ground.

Crakaig	NC976119	03/08/1999	BSBI
Helmsdale	ND030150	07/08/1999	BSBI
	NC600000	15/08/1999	C.D. Preston det. E. Clement

NC60 NC91 ND01

West Shinness crofts	NC533151	hamlet	14/07/2011
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Campanula carpatica Jacq. *Carpatian Bellflower*

• hs 6

An occasional garden plant, rarely self-sown with us.

Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012

Campanula persicifolia L. *Peach-leaved Bellflower*

• hs 6

An essential component of the cottage garden plant community. Abundantly self-seeded and often found outside gardens on pavements, beneath walls and on open bare ground in villages. Dramatically increased or previously under-recorded.

Ferry Links NH810970 22/10/1985 M.J. Marshall det. D. McClintock

NH89

Embo	NH815928	village	01/07/2010
Lonmore	NH764884	hamlet	01/07/2010
Spinningdale	NH674897	hamlet	02/07/2010
Rosehall	NC470021	village	02/07/2010
Linsidmore	NH545991	hamlet	02/07/2010
Skibo Castle S wall	NH735891	parkland	10/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Wester Drumlich	NH607934	hamlet	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Rosehall	NC470022	village	09/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Invercassley Stores Rosehall	NC470020	waste ground	28/06/2014
Lower Brora	NC908037	bungalows	11/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

[Campanula medium L. *Canterbury-bells*]

• hs 5

A cottage garden plant, occasionally self-seeding on waste ground. There are 3 types: single with an upright green calyx, cup-and-saucer (also known as 'Calycanthemum') with the calyx held horizontally and concolorous with the bell, and double with petaloid stamens.

Recorded from the Moray coast.

Campanula glomerata L. *Clustered Bellflower*

hs 5

An uncommon cottage garden plant, rarely found as an outcast.

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
Helmsdale Harour	ND029151	terrace	19/06/2011
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Rosehall	NC470022	village	09/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

Campanula portenschlagiana Schult. *Adria Bellflower*

• h 5

Garden walls. People have great difficulty remembering which is which amongst the two commonly naturalized Bellflowers that grow on garden walls. It is best, perhaps, to think of them as “Posh” and “Port”. Port has deep, bell-shaped, flowers, while Posh has flat, star-shaped flowers, and is much more abundant. Port is deep dark Oxford blue, while Posh is pale Cambridge blue.

Invershin Station	NH580953	railway	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011

Campanula poscharskyana Degen *Trailing Bellflower*

• h 3

A very popular, but rampant, rockery and wall plant; found in almost every cottage garden. One of the pair: “Posh” and “Port”, this (“Posh”) is the really common species of garden walls and pavements; it has flat star-shaped flowers with pale blue petals (see above). It is a frequent garden escape, found on walls and pavements in every town and village throughout vc. 107.

Dornoch The Meadows	NH799893	suburbia	10/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Camore	NH778903	council houses	12/07/2010
Old Helmsdale	ND022160	hamlet	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
East Clyne	NC896062	hamlet	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Church Street Golspie	NH828997	bungalows	07/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

Campanula latifolia L. *Giant Bellflower*

hs 7

This tall plant seeds itself freely in gardens and escapes quite often on waste ground and pathsides in villages. Calyx teeth erect or erecto-patent; middle stem leaves sessile with cuneate bases. Local and rare. In woods at Dunrobin Castle, pre 1920.

Dunrobin			G.C. Druce
Marrel by Helmsdale	ND021173	19/08/1984	J.K. Butler
Altassmore	NC487002	06/08/1985	J.K. Butler
Altassmore	NC487002	06/08/1985	M.E. Murray

NC40 NC80 ND01 NH89

Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Gordonbush Lodge	NC844096	parkland	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Ospisdale	NH712897	hamlet	11/07/2013

NVC: W 8

Campanula latifolia 'Alba' is an attractive cultivar, not infrequent in gardens

Skibo Castle S front	NH737890	parkland	11/07/2013
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Campanula rapunculoides L. *Creeping Bellflower*

• hs 7

Dry woods, banks, hedges, plantations, gardens and waste ground near houses. Rare but persistent garden escape. A patch-forming plant with calyx-teeth patent or reflexed. A beautiful but terrifying weed, spreading both by underground runners and self-sowing.

Ferrytown		15/07/1959	John Anthony
Kildonan			M. McC. Webster

NC73 NC92 NH88

Castle Hotel Dornoch	NH797895	old garden	09/07/2011
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Campanula rotundifolia L. *Harebell*

hs 7

Campanula giesekiana auct., non Vest

Heaths, commons, dunes and dry sandy fields. Occasional but widespread.

NC30 NC31 NC40 NC41 NC50 NC51 NC60 NC70 NC71 NC74 NC80 NC81 NC83 NC84 NC90
NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Brora Golf Course	NC913043	sand dunes	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010

Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH801958	<i>Cladonia</i> heath	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Wester Lonemore	NH757878	coastal grassland	11/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Burnside	NH608926	ditch	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Dornoch Links W	NH780880	sand dunes	14/07/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Badnellan North Brora	NC883043	hamlet	10/09/2012
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
Craggie road junction	NC744075	roadside	10/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Ben Horn E crags	NC810624	conglomerate	06/07/2013
Ben Horn S crags	NC811623	conglomerate	06/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
The Mound Crags	NH762983	crags	12/05/2015

NVC: CG 2-5; MG 1; OV 29; U 1,20; W 23

[*Campanula rotundifolia* subsp. *montana* (Syme) P.D. Sell.]

hs 7

Told from subsp. *rotundifolia* by its broader and blunter stem leaves, squatter capsules and bigger flowers (typically more than 20mm). You can confirm it by counting the chromosomes ($2n = 102$ rather than 68). Worth looking for in upland locations.

[*Wahlenbergia hederacea* (L.) Rchb. *Ivy-leaved Bellflower*]

chh 7

Cervicina hederacea Delile
Campanula hederacea L.

Shady, boggy places in acid woodland rides. Very local and rare.

Recorded from the Moray coast.

[**Jasione montana** L. *Sheep's-bit*]

hs 5

Dry wood margins, heaths, banks and railway cuttings on acid soils.

Recorded from the Moray coast.

Lobelia erinus L. *Garden Lobelia*

• th 5

One of the most frequent hanging basket and window box escapes in towns and villages. Common in cracks in paving stones and at the base of walls, often immediately below a hanging basket. Especially frequent outside public houses that have automated irrigation systems, as these keep the pavements moist throughout the summer months. Also on waste ground and railway lines.

Clashmore	NH747895	village	10/07/2010
East Brora	NC904046	suburbia	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Rosehall	NC470021	village	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Camore	NH778903	council houses	12/07/2010
North Street Dornoch	NH797897	terrace	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Struic Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
Doll	NC876034	hamlet	10/09/2012
Briar Cottage Doll	NC883032	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Garvault Hotel	NC782386	garden	10/09/2012
Kildonan Crossing Cottage	NC901216	abandoned garden	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012

Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014

Lobelia dortmanna L. *Water Lobelia*

hyd 6

Stony acid lakes in the uplands. Locally common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC73 NC74 NC80 NC82 NC83 NH69

This is an alphabetical list of the lochs and lochans from which Water Lobeila is recorded

Fionn Loch Beag	NC340228	Charter, E.;Dale, K.
Fionn Loch Mor	NC335235	Charter, E.;Dale, K.
Glas-loch Beag	NC660201	Warman, E.
Glas-loch Mor	NC672195	Dale, K.;Warman, E.
Gorm Loch Mor	NC320245	Charter, E.;Dale, K.
Loch a' Bhrochain	NC370030	Charter, E.
Loch a' Ghriama	NC391265	Charter, E.;Dale, K.;Warman, L.;Sharpe, N.
Loch a' Mheallain Leith	NC660172	Sharpe, N.
Loch Airighe Mhor	NC692022	Dale, K.;Sharpe, N.
Loch Airighe Bheg	NC703024	Charter, E.;Warman, L.
Loch an Alaskie	NC478267	Charter, E.
Loch an Alltan Fhearna	NC750335	Charter, E.
Loch an Fheoir	NC495238	Charter, E.;Sharpe, N.
Loch an Fheoir	NC510259	Dale, K.
Loch an Lagain	NH659956	Charter, E.;Dale, K.;Warman, L.;Sharpe, N.
Loch an Rasail	NC475086	Charter, E.
Loch an Staing	NC523188	Dale, K.
Loch an Tubairnaich	NC875089	Dale, K.;Warman, E.;Sharpe, N.
Loch an Ulbhaidh	NC493227	Charter, E.;Sharpe, N.
Loch Arichlinie	NC847350	Charter, E.
Loch Ascaig	NC850255	Bell, S.L.;Dalton, A.
Loch Bad na h-Earba	NC765138	Charter, E.;Sharpe, N.
Loch Beag na Fuaralachd	NC609156	Dale, K.;Warman, E.
Loch Beannach	NC740113	Charter, E.;Sharpe, N.
Loch Beannach	NC685145	Bell, S.L.;Dale, K.
Loch Beannach	NC600125	Charter, E.;Sharpe, N.
Loch Brora	NC850080	Charter, E.;Dale, K.;Warman, L.;Sharpe, N.
Loch Coire na Bruaiche	NC636165	Sharpe, N.
Loch Coire nam Mang	NC800405	Sharpe, N.
Loch Cracail Mor	NC627021	Charter, E.;Dale, K.;Warman, L.;Sharpe, N.
Loch Craggie	NC625075	Sharpe, N.
Loch Culaidh	NC863390	Bell, S.L.;Dalton, A.
Loch Dola	NC606080	Charter, E.;Dale, K.;Warman, L.
Loch Druim a' Chliabhain	NC810410	Dalton, A.
Loch Eileanach	NC483277	Charter, E.;Gunn, I.

Loch Fiaig	NC447293	Warman, E.;Sharpe, N.
Loch Gaineamhach	NC514258	Dale, K.
Loch Gaineimh	NC798430	Sharpe, N.;Dalton, A.
Loch Grudaidh	NC744101	Charter, E.;Sharpe, N.
Loch Langwell	NC412132	Gordon Rothero
Loch Laro	NH608994	Charter, E.;Dale, K.;Warman, L.;Sharpe, N.
Loch Lucy	NC878394	Bell, S.L.;Dalton, A.
Loch Merkland	NC390315	Charter, E.;Dale, K.;Warman, L.;Sharpe, N.
Loch Migdale	NH640908	Charter, E.;Dale, K.;Warman, L.;Sharpe, N.
Loch na Caillich	NC516082	Charter, E.;Dale, K.;Warman, L.;Sharpe, N.
Loch na Claise Moire	NC385051	
Loch na Fuaralachd	NC604163	Dale, K.;Warman, E.
Loch na Fuaralaich	NC487065	Charter, E.
Loch na Gaineimh	NC767304	Sharpe, N.
Loch na Glaic	NC759132	Charter, E.;Sharpe, N.
Loch na Saobhaidhe	NC652016	Charter, E.
Loch Preas nan Sgiathanach	NC680090	Warman, E.;Sharpe, N.
Loch Rosail	NC715401	Bell, S.L.;Dalton, A.
Loch Sail an Ruathair	NC334148	Charter, E.;Dale, K.
Loch Shin		in many places
Loch Tigh na Creige	NC616093	Charter, E.;Dale, K.;Warman, L.
Loch Truderscaig	NC711328	Warman, E.
Lochan a' Choire	NC462133	Charter, E.
Lochan Dubh	NC746122	Charter, E.;Sharpe, N.
Lochan D. Cul na h-Amaite	NC758142	Charter, E.;Sharpe, N.
Lochan na Gaoithe	NC661006	Charter, E.
Lochan Sgeireach	NC670151	Bell, S.L.;Dale, K.
North Dalchork	NC528257	Haycock, Gordon
Palm Loch	NC708411	Crawley, Mick

Very rare in garden ponds, as at

Simpson Crescent Helmsdale ND031151 council houses 19/06/2011

NVC: A 9, 11, 13, 14, 22, 23, 24; S 9, 19

[*Pratia angulata* (G. Forst.) Hook. f. *Lawn Lobelia*]

h 5

Naturalized in damp lawns.

Recorded from the Moray coast.

MENYANTHACEAE

Menyanthes trifoliata L. *Bogbean*

hel 5

Pools in acid marshes, bogs, fens and borders of slow streams; tolerant of shade. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71
NC72 NC73 NC74 NC80 NC82 NC83 NC84 NC91 NC93 NH59 NH68 NH69 NH79

Green Loch	NC722394	01/07/1998	Gordon Rothero
Spinningdale Bog SSSI	NH667907	valley fen	10/07/2010
Reidh Lochan	NC742070	loch side	12/05/2011
Overskibo Curling Pond	NH727902	pond	14/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
N of Green Loch	NC720400	loch	22/06/2011
Kilbraur Wind Farm	NC767070	loch	22/06/2011
Wester Drumlich	NH607934	hamlet	09/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Loch Thurnaig	NC399003	loch	12/07/2011
Cathair Thurnaig	NC390008	loch	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC860400	wet heath	15/07/2011
Ben Griam Beg E side	NC850400	wet heath	15/07/2011
Ben Griam Beg E side	NC870400	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Coire na Bruaiche	NC635165	loch	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Lochan nan Smugaidean	NC357218	blanket bog	03/07/2013
Maovally N slope	NC371220	blanket bog	03/07/2013
Maovally trig point	NC377215	blanket bog	03/07/2013
Maovally summit cairn	NC378211	blanket bog	03/07/2013
Allt Maovally	NC385206	blanket bog	03/07/2013
Cnoc Glas na Crionaiche N	NC393204	blanket bog	03/07/2013
Cnoc Glas na Crionaiche	NC397195	blanket bog	03/07/2013
Cnoc Glas na Crionaiche W	NC385194	blanket bog	03/07/2013
Embo Muir	NH802936	swamp	04/07/2013
Tulloch	NH618932	bog	09/07/2013
Meall na Tulchainn N flank	NH650999	wet heath	25/06/2014
An Stoc-bheinn S flank	NC645017	stream head	25/06/2014
An Stoc-bheinn	NC640027	stream head	25/06/2014
Loch Achnamoine Helmsdale	NC811326	loch side	16/06/2015
Allt Dail Bhaich watershed	NC884202	loch	20/06/2015
Maovally Road summit	NC380207	blanket bog	13/05/2015
Allt a Choin-duinn	NH617993	wet heath	12/06/2015

Cnoc an Laith-bhaid Mhoir	NC765284	wet heath	15/06/2015
Leathad no Crionaiche	NC386235	wet heath	13/05/2015
S of Forsinard lochans	NC869419	wet heath	15/06/2015
Cnoc Glas na Crionaiche	NC397195	blanket bog	13/05/2015
Maovally E flank	NC389223	wet heath	13/05/2015
Achrimsdale Fank Borrobol	NC794260	wet heath	15/06/2015
Allt Lon a' Chuil	NC735448	wet heath	16/06/2015
Abhain a Choire	NC369253	stream	13/05/2015
Maovally E flank	NC384225	wet heath	13/05/2015
Corrykinloch	NC386251	wet heath	13/05/2015

NVC: M 13,22; OV 26; S 1,4,8,10,12,13,25; W 4

Nymphoides peltata Kuntze *Fringed Water-lily*
Limnanthemum peltatum S. Gmelin, nom. illegit.

• hyd 7

A garden plant with us, occasionally found as an outcast.

Wester Drumlich	NH607934	hamlet	09/07/2011
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Also recorded from the Moray coast.

NVC: A 11

PROTEACEAE

Grevillea rosmarinifolia A.Cunn. *Grevillea*

• ph 7

An uncommon garden shrub in the north, and an even rarer outcast. Not seeding with us.

Dunrobin Castle	NC851008	parkland	17/05/2012
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ASTERACEAE

Echinops L. *Globe Thistles*

Common garden plants that are much misidentified as garden escapes, tending all to be lumped together as either *E. sphaerocephalus* or *E. bannaticus* depending on the observer. Named after the Greek for sea-urchin or hedgehog. In fact there are 3 escaped taxa, and they are easily distinguished by their involucre bracts: *E. sphaerocephalus* has its phyllaries erect at the tip, with abundant glandular hairs, *E. bannaticus* has its phyllaries erect at the tip, without glandular hairs, while *E. exaltatus* has its phyllaries strongly recurved at the tip, without glandular hairs, and whitish rather than blue-grey flower heads. Two more compact species, *E. ritro* (heads 3.5-4.5cm dia.) and *E. ruthenicus* (heads 4.5cm dia.) are less often seen as garden escapes.

The distributions of the 3 taxa in vc. 107 have not been worked out in detail, but *E. bannaticus* is much the commonest species as a garden outcast on waste ground by railways and in villages.

Echinops bannaticus Rochel ex Schrad. *Blue Globe-thistle*
Echinops ritro auct., non L.

• h 7

The most commonly naturalised species: blue-grey heads 2.5-5cm dia. & bracts without glandular hairs.

Clashmore	NH747895	village	10/07/2010
Embo	NH817928	waste ground	11/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
A9 verge at Ballinreach	NC932087	roadside	23/06/2011
Castle Hotel Dornoch	NH797895	old garden	09/07/2011
Rogart Station	NC724019	railway	10/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Oversecaig Hotel Loch Shin	NC417232	garden	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Helmsdale	ND033153	seaside grass	07/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Invercassley House Rosehall	NC474015	parkland	28/06/2014
Pittentrail	NC726019	village	10/05/2015
Glenrossal Gatehouse	NC466036	hamlet	16/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Echinops sphaerocephalus L. *Glandular Globe-thistle* ● h 6

The least commonly naturalised of the three; heads 3-6cm dia. grey or white, bracts with glandular hairs.

Echinops exaltatus Schrad. *Globe-thistle* ● h 6

Echinops sphaerocephalus auct., non L.

Echinops commutatus Juratzka

Occasionally naturalised, heads 3.5-6cm dia. & bracts with strongly recurved tips.

Carlina vulgaris L. *Carlina Thistle* h 7

Dunes, cliffs and open heaths and grasslands. Very local and rare.

Coul Links Embo NH808954 15/08/1975 M.J. Marshall

NH89

NVC: SD16; MC 11; OV 27, 39, 41

Arctium L. Burdocks

Records of Burdocks suffer, as elsewhere, from changes of fashion in botanical nomenclature and from a lack of attention to detail. The two main groups of species are easy to tell apart: *A. lappa* (rare in Scotland and not recorded from north-eastern Scotland) has a flat-topped inflorescence which results from the fact that the burs inserted lowest on the stem have the longest peduncles (a corymbose inflorescence), whereas *A. minus* and *A. nemorosum* have more or less sessile burs in a spike-like raceme. Separation of *A. minus* and *A. nemorosum* takes more experience. You need to check with a lens whether the corolla is hairy or glabrous, and to measure the width of the middle involucre bracts (phyllaries) to the nearest 0.1mm (see below). In the field in winter, after the burs are fully mature, *A. minus* can be told from *A. nemorosum* by keeping an old railway ticket in your pocket. The black magnetic strip on the back of the ticket is the difference in diameter across the tips of the burs. *A. minus* is the width of the white strip on one side, while *A. nemorosum* is the width of the white strip plus the magnetic strip. To confirm identification you need to measure the width of the middle interior bracts, preferably under a microscope (less than, or more than, 1.7mm respectively). The young stems often bear dense colonies of the bronzy-black aphid *Uroleucon*. & the leaves bear serpentine mines of *Phytomyza lappae*.

Arctium minus (Hill) Bernh. *Lesser Burdock*

h 7

Lappa minor Hill

Arctium vulgare auct., non (Hill) Druce

Arctium pubens Bab.

Arctium minus (Hill) Bernh. subsp. pubens (Bab.) P. Fourn.

Wayside, woods, hedges, woodland rides, roadsides and waste ground. The petiole of basal leaves is hollow near the base, and the middle phyllaries are narrow (< 1.7mm). Note, however, that a problem can arise if the phyllaries are somewhat wider: if they are 1.7 to 1.8mm broad, then the corolla equalling or exceeding the phyllaries, or the corolla pubescent, or both, is *A. minus* not *A. nemorosum*. Stace's treatment lumps *A. minus* and *A. pubens* together. Previously, *A. pubens* was distinguished by having bigger heads (2-3cm in diameter vs. 1.5-2.2cm) that were open at the top in fruit, and borne on peduncles up to 15cm in length (there are no records of *A. pubens* for vc. 107).

Based on the hectad records for Atlas 2000 (below) it would seem that this species was more frequent in vc. 107 than *A. nemorosum*, but I have never seen *A. minus* in vc. 107.

NC30 NC40 NC50 NC70 NC80 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH89

No recent records.

NVC: CG 3; OV 10,13,24,25,32; W8,12,21

Arctium nemorosum Lej. *Wood Burdock*

h 7

Arctium minus (Hill) Bernh. subsp. nemorosum (Lej.) Syme

Arctium vulgare auct., non (Hill) Druce

Roadsides, hedges, thickets; local. The petiole of basal leaves is hollow near the base, the middle phyllaries are broad (1.7-2.5mm), the phyllaries exceed the corolla by 1.2-6mm, and the corolla is glabrous. Mature burs are sessile and broad (30-40mm). The only Burdock recorded recently from vc. 107.

NC80 NC90 NC91 ND01 NH69

Lothmore Church	NC971113	churchyard	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Drumlian Road Bonar Bridge	NH606924	council houses	12/07/2010
Pittentrail	NC726020	village	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kildonan Church	NC910207	churchyard	11/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
Deans Park Dornoch	NH791896	new housing	18/06/2011
Crackaig Farm	NC957107	farmstead	23/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Morvich	NC753007	hamlet	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Davoch Pittentrail	NC723016	garden	10/09/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Crackaig Farm Wood	NC957105	woodland	17/05/2012
Pittentrail	NC726019	village	04/05/2013
Strath Helmsdale	ND022171	birch wood	05/05/2013
sea cliffs N of Helmsdale	ND035153	soft sea cliff	17/06/2015
West Shinness Lodge	NC529153	hamlet	13/05/2015

Saussurea alpina DC. *Alpine Saw-wort*

h 6



Saussurea alpina Janet Macpherson

Mountain cliffs and screes. Restricted to the higher hills in the far north-west.

Ben More Assynt		15/08/1964	D.A. Ratcliffe
Carn Dearg		15/07/1973	A.G. Kenneth
Ben Griam Mor	NC790390	15/07/1977	Derek Ratcliffe
Ben Griam Beg	NC840441	15/07/1977	Derek Ratcliffe
Coire na Saidhe Duibhe	NC692281	07/07/1998	Gordon Rothero

NC31 NC32 NC33 NC52 NC62 NC83 NC84

Ben Griam Mor	NC802389	crag	15/07/2011
Creag Dhubh	NC807390	crag	15/07/2011
Creag Dhubh	NC808390	crag	15/07/2011
Creag Dhubh	NC807390	crag	15/07/2011
Creag Dhubh	NC807391	crag	15/07/2011
Ben Griam Mor	NC801389	crag	15/07/2011
Coire Mhadaidh Conival	NC307203	wet rocks	10/08/2012 Gordon Rothero
Meall an Fheur Loch	NC362316	crag	08/07/2013

NVC: M 31; CG 14; U 13, 17

Carduus tenuiflorus Curtis *Slender Thistle*
Carduus pycnocephalus L. var. *tenuiflorus* (Curtis) Ball

Waysides and dry banks: rare and sporadic. Decreasing or formerly mistaken for *C. crispus*. The capitula are small (< 14mm) and roughly cylindrical (not round or bell shaped), and the corolla lobes are all the same size (rather than with one lobe more deeply delimited than the others). Uncommon by the coast.

ND01 NH78 NH89

[*Carduus crispus* L. *Wetted Thistle*] h 6

***Carduus crispus* subsp. *multiflorus* (Gaudin) Greml**

Carduus multiflorus Gaudin

Carduus acanthoides auct., non L.

Carduus crispus L. subsp. *occidentalis* Chassagne and Arènes

Hedges, open woods, waysides and waste places. The genus *Carduus* is distinguished from *Cirsium* on the pappus hairs: simple in *Carduus*, feathery-branched in *Cirsium*. Told from *Cirsium palustre* by its involucre bracts, which are pale green and spreading (not purple and tightly appressed).

Recorded from Easter Ross, Easternness and the Moray coast.

NVC: OV 25

Carduus nutans* L. *Musk Thistle h 5

Waysides, waste ground and basic grasslands. Also recorded from Easter Ross, Easternness and the Moray coast.

NH78

Dornoch Eaglefield Road NH796895 suburbia 10/04/2010

NVC: OV 25

Cirsium rivulare* ‘Atropurpureum’ *Crimson Thistle • h 6

An uncommon garden plant, and a rare garden escape

The Terrace Lairg NC581059 semidetached 10/07/2011

Well Street Dornoch NH799893 cottages 04/07/2013

Cirsium vulgare* (Savi) Ten. *Spear Thistle h 7

Carduus vulgaris Savi

Cirsium lanceolatum (L.) Scop., non Hill

Cnicus lanceolatus Willd.

Hedges, pastures, roadsides, waste places, newly cleared or open woods; very common and generally distributed. With *C. arvense*, our commonest thistles, then comes *C. palustre*. A seed bank species, often sporadic and impermanent above ground, but producing massive, thicket-forming populations following soil disturbance. Because it is monocarpic, it is seldom found in the same location for more than one generation unless there is repeated soil disturbance; its seedlings do not establish in competition with perennial grasses. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC63 NC70 NC71
NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69
NH78 NH79 NH88 NH89

NVC: CG 2,4; MG 1,6,7,9; OV 4,10,13,15,19,22,23,25,27,33, 37; U 20; W 24; SM 28; SD 1, 4, 6-8,
18; MC 11, 12

Cirsium heterophyllum (L.) Hill *Melancholy Thistle* h 7
Cirsium helenioides auct. non (L.) Hill

Wet places by streams, in moorland and on banks. Scattered and uncommon but locally frequent.

NC30 NC31 NC32 NC33 NC40 NC50 NC60 NC70 NC71 NC74 ND01 NH59 NH79

Linsidmore Wood	NH498998	riverbank	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Craggiemore birch wood	NC735085	woodland	12/05/2011
Rimsdale Burn	NC739398	stream	22/06/2011
Embo	NH817928	village	23/06/2011
Dalnabreac	NC686038	roadside	10/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Front Street Embo	NH817927	village	18/05/2012
Loch Shin N of Lairg	NC454281	roadside	26/06/2014
Invercassley House Rosehall	NC474015	parkland	28/06/2014

NVC: W 9; M27; MG 3; U 17, 19

Cirsium x wankelii = **C. heterophyllum x C. palustre** h 7

Ravens Rock Gorge NC495005 near buildings 06/07/1999 Gordon Rothero

Also recorded from Easternness and the Moray coast.

Cirsium palustre (L.) Scop. *Marsh Thistle* h 7
Carduus palustris L.,
Cnicus palustris Willd.

Meadows, marshes, damp woods, hedge-banks; common and generally distributed. White-flowered forms are by no means uncommon. Damp woodland rides, marshes and damp grassland. Frequent. Very variable in numbers from year to year; populations move rapidly from place to place with changes in soil moisture. Monocarpic, it almost always dies after flowering. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: CG 2; M 13,22,24; MG 4,9,10; OV 26,27; S 3,5,6,7,15,18,25,26,28; W 1,4,5,6,24; SD 15

Cirsium arvense (L.) Scop. *Creeping Thistle*

gr 7

Serratula arvensis L.,
Cnicus arvensis Willd.

Badly managed pastures, arable fields and waste places; frequent or locally abundant in an extraordinary range of grassy and open habitats. White-flowered forms are found occasionally. Widespread and abundant.

NC30 NC31 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC70 NC71 NC73 NC74 NC80
NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2-4; M 22,24,27; MG 1,4-7,9,10,13; OV 3,4,5,7-10,13-16,19-29,31-33,41;
S 5,6,18,23,26,28; U 20; W 21,24,25; SD 1-19; MC 4, 8

Onopordum acanthium L. *Cotton Thistle*

o h 7

A statuesque and ghostly garden plant, often over 2m tall, with white-wooly leaves, self-sowing freely in herbaceous borders and on waste ground near houses. Roadsides, dry hedge-banks and waste places; never in quantity and mostly sporadic, but possessed of a long-lived seed bank.

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Biblical Gardens Golspie	NC837001	garden	07/09/2012

Cynara cardunculus L. *Globe Artichoke*

• h 6

Cynara scolymus L.

Lond persistent as a garden relic or outcast. Rare in Scotland, this is the first record from north of the Central Belt.

Camore	NH778903	council houses	12/07/2010
Skibo Castle S wall	NH735891	gardens	10/05/2011
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

[Silybum marianum (L.) Gaertn. *Milk Thistle*]

o h 6

Carduus marianus L.,
Mariana mariana Hill

Roadsides, dry waste ground and tips; rare and sporadic, typically in quantity.

Recorded from Easter Ross, Easternness and the Moray coast.

Celmisia specabilis Hook. f.*Cotton Daisy*

• hs 6



An uncommon garden plant. Rare as an outcast.

Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Braambury Road Brora	NC904048	bungalows	11/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

[*Centaurea diluta* Aiton *Lesser Star-thistle*]

• hs 6

Recorded from Easternness and the Moray coast.

[*Centaurea scabiosa* L. *Greater Knapweed*]

• hs 7

Acrocentron scabiosa (L.) Å. Löve and D. Löve
Colymbada scabiosa (L.) Holub

Recorded from Easternness and the Moray coast.

Centaurea macrocephala Muss. Puschk. ex Willd. *Giant Knapweed or Globe Centaurea* • h 6



Muirfield Drive Brora	NC906043	council houses	07/09/2012
Skibo Castle S front	NH737890	parkland	11/07/2013
Invercassley Stores Rosehall	NC470020	waste ground	28/06/2014

Centaurea montana L. *Perennial Cornflower*

• h 5

A quintessential cottage garden plant. A common garden escape or outcast in virtually every town and village.

Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Linsidmore	NH545991	hamlet	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011

Bonar Bridge	NH610914	village	07/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Wester Drumlich	NH607934	hamlet	09/07/2011
Castle Hotel Dornoch	NH797895	former garden	09/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Station Terrace Brora	NC906409	terrace	07/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace gardens	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Clashmore	NH747895	village	08/05/2013
Embo	NH817928	village	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Duke Street Golspie	NC839245	suburbia	06/07/2013
Sleastary	NH643963	croft	09/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Pittentrail	NC726019	village	10/05/2015
Lairg	NC579068	bungalows	10/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Clash Breac Lairg	NC588063	new housing	12/06/2015
Glenrossal Gatehouse	NC466036	hamlet	16/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Corrickinloch	NC398253	hamlet	13/05/2015
Brora Industrial Estate	NC901034	grassland	14/06/2015
High Croft Hilton of Embo	NH805915	hamlet	11/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Very rarely with white flowers, as at:

Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
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Centaurea cyanus L. *Cornflower*

• th 6

Very common in cottage gardens, as a summer-flowering pot plant and in bedding schemes, self-seeding all over the place. Formerly common in cornfields, especially on light sandy soils, but susceptible to herbicides and uncompetitive with perennial crops and grass leys. Now usually garden escapes or introduced with wildflower mixtures.

NC70 NC91 ND01 NH89

Golspie	NH89	07/08/1897	Shoolbred, W.A. NMW
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Centaurea nigra L. *Common Knapweed*

h 6

Centaurea nemoralis Jordan

Centaurea nigra L. subsp. *nemoralis* (Jordan) Gremlí

Jacea nemoralis (Jordan) Soják

Centaurea debeauxii Gren. & Godron subsp. *nemoralis* (Jordan) Dostál

Grassland, railway banks, heaths, pastures, dunes, cliffs and roadsides. Frequent and locally abundant.

The vc. 107 plants have broad involucre (15-20 mm across) and swollen and flattened peduncles immediately below the flower-head (in contrast to *C. debeauxii* which is the common plant of southern England).

Stace is of the view that the pseudo-radiate plants do not deserve recognition even as subsp. *rivularis*.

NC30 NC40 NC50 NC60 NC70 NC71 NC80 NC81 NC83 NC90 NC91 NC92 ND01 NH59 NH69
NH78 NH79 NH88 NH89

Dornoch Dunes	NH806876	sand dunes	19/06/2011
Dornoch Airfield	NH805883	dune grassland	19/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
Helmsdale Harour	ND029151	terrace	19/06/2011
Embo village dunes	NH817929	sand dunes	23/06/2011
Embo sand dunes	NH816938	sand dunes	23/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Birichen	NH765923	roadside	09/07/2011
Burnside	NH608926	ditch	09/07/2011
Proney Cottage	NH771918	ditch	09/07/2011
Rogart Station	NC724019	railway	10/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Hill of Ord Lairg	NC577055	plantation	15/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011

etc.

NVC: CG 2-5; M 13,22,24,27; MG 1,4-6,9; OV 23,24; W 24; SM 28; SD 7-9,15, 17; MC 4, 9, 11

[*Carthamus tinctorius* L. *Safflower*]

• th 6

A rather uncommon garden annual; a thistle-like plant up to 1m tall with bright orange flowers (the English name 'False Saffron' refers to the former use of the petals as a source of orange dye). A bird-seed alien on waste ground.

Recorded from Easternness and the Moray coast.

Cichorium intybus L. *Chicory*

o h 7

Waysides, sown fields, roadsides and railway banks. A distinctive roadside plant, its powder blue flowers are conspicuous in mid and late summer.

Bonar Bridge	NH608918	18/10/1985	M.J. Marshall
Skelbo Wood	NH777945	18/09/2006	M.E. Murray

NH68 NH69 NH78 NH79

NVC: OV 23

Lapsana communis L. *Nipplewort***Lapsana communis** subsp. **communis**

th 6

Hedges, waysides, cultivated ground, open woods, plantations, wood margins, arable fields and gardens; very common and generally distributed in the lowlands. One of the commonest, late-season composites.

NC30 NC40 NC50 NC60 NC70 NC71 NC80 NC90 NC91 NC92 ND01 NH59 NH69 NH78 NH79
NH88 NH89

Helmsdale Main Street	ND027153	street	06/04/2010
Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Station	NH825997	railway	11/04/2010
Brora SW	NC901038	waste ground	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Longuish Road Junction	NH644919	waste ground	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Lothmore Church	NC971113	churchyard	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Embo	NH817928	waste ground	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Drumlian Road Bonar Bridge	NH606924	council houses	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Camore	NH778903	council houses	12/07/2010
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011

Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Duke Street Golspie	NC838001	stonework	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
East Clyne	NC893062	stream	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Carnegie Wodland	NH732892	parkland	09/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Carnegie Golf Course	NH745875	links	10/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Spinningdale	NH675897	waste ground	18/06/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Embo	NH817928	village	23/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Academy Street Brora	NC900044	bungalows	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
The Brdge Bonar Bridge	NH610915	old walls	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Burn	NC831016	pine plantation	18/05/2012
Golspie Burn	NC829020	oak birch woodland	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Pittentrail	NC726019	village	04/05/2013
Helmsdale	ND026154	village	05/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013

Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Main Street Brora	NC903391	street	07/05/2013
Brora Station	NC906414	railway	07/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Ross Terrace Brora	NC905387	railway	01/07/2013
Loch Front Embankment	NC581623	loch shore	02/07/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Glashbuie North Brora	NC903536	derelict building	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Cnoc na Croiche Dunrobin	NC845435	policy woodland	06/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Academy Street Brora	NC902446	dry banks	07/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

NVC: OV 8-10,12,15,19,23,33; W 8,24



The massive delta where R Fiag enters Loch Shin.

Hypochaeris radicata L. *Cat's-ear*

hr 6

Grassland, lawns, pastures, meadows, woodlands, heaths, paths, ditches and waste places; very common and generally distributed.

In other parts of the world, this one of the most widespread alien plant species, found on the upper slopes of Mona Loa in Hawaii to the volcanoes of Costa Rica and La Reunion, the fynbos of South Africa, sunny California and from Japan to New Zealand. The plant is known at once by its fleshy leaves with short, rounded lobes and unforked hairs. Confirmation requires that the capitulum be opened up; in addition to achenes with their pappus, you will find tissue-paper-like fragments of chaffy membrane separating the achenes from one another (these are the "receptacular scales" possessed by *Hypochaeris* but not by *Leontodon* or *Crepis*).

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
NH68 NH69 NH78 NH79 NH88 NH89

West Merkland	NC384329	stream	13/05/2011
Duchally Lodge	NC388166	riverbank	10/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
Glen Cassley swimming hole	NC413116	stream	10/05/2011

Glen Cassley	NC455050	riverbank	10/05/2011
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Watershed at The Crask	NC521259	wet heath	11/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Riemarstaig watershed	NC609056	dry heath	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Ascoile Glen Brora	NC824107	stream	12/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Lochside	NC872355	hamlet	11/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Carnegie Golf Course W	NH726871	links	10/05/2011
Carnegie Golf Course	NH739871	links	10/05/2011
Astle	NH745919	hamlet	10/05/2011
Carnegie Golf Course	NH745875	links	10/05/2011
Clashmore Wood	NH757898	pine wood	09/05/2011
Evelix Bridge	NH767904	riverbank	0/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Royal Dornoch Golf Course	NH806907	Juniper dunes	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Royal Dornoch Golf Course	NH812915	links	14/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011

Ferry Road Golspie	NH826997	terrace	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011

etc.

NVC: CG 2-4; MG 1,4-7; OV 23,27; U 1; W 23,24

[Hypochaeris glabra L. Smooth Cat's-ear] th 6

A local specialty of open sunny spots on sandy and gravelly heaths. Very local and rare. The marginal achenes are not beaked, the capitula are small (1.0-1.5cm across rather than 2-4cm), and the ligules are dumpy (only 2 times as long as wide, not 4 times as in *H. radicata*).

Recorded from Easternness and the Moray coast.

Scorzoneroides autumnalis (L.) Moench Autumn Hawkbit hr 6
Leontodon autumnalis L.

Short, dry grassland, meadows, pastures, waysides, wall-tops, etc. Abundant throughout, and the commonest hawkbit. The underside of the ray florets (ligules) are reddish (not greyish), and the leaves have unforked hairs (the leaf hairs are forked in *L. saxatilis*). The leaf lobes are long and thin, and rather well separated (cf. *Crepis capillaris*). Widespread and abundant.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: CG 8, 10-14; U 5, 14, 17; MG 4-7,9,13; OV 11, 21; S 19; SM 16, 18, 19, 20, 28; SD 7, 8, 13, 14-17; MC 2, 3, 8-10

Leontodon hispidus L. Rough Hawkbit hr 6
Leontodon hispidum L.

Grassland, roadsides and railway banks. Unmistakable with its roughly hairy flower stalks and forked hairs. Confirmation of the distinction from *L. saxatilis* requires a close examination to ensure that the pappus of the outermost achenes consists of hairs (in *L. saxatilis* the outermost pappus is reduced to a scaly ring).

Muie	NC669044	hamlet	13/05/2011
Carnegie Golf Course W	NH726871	links	10/05/2011

Also recorded from Easternness and the Moray coast.

[Leontodon saxatilis Lam. Lesser Hawkbit] hr 6

Leontodon taraxacoides (Villars) M., rat, nom. illegit.

Leontodon leysseri (Wallr.) G. Beck

Leontodon hirtum L.

Colobium taraxacoides (Villars) Holub

Hyoseris taraxacoides Villars

Sandy and gravelly pastures, heaths and compacted ground by roadsides; locally common throughout our area. Short, dry grassland, mostly pasture, on moderately acid soils; occasional or locally frequent, but absent from calcareous soils. Typically smaller than the other common yellow

composites, with ligules grey-violet beneath, leaves with forked hairs, and the outer achenes with a pappus that is a “scaly ring”. Flowers well into the autumn, long after the others have set seed.

Recorded from West Sutherland and from Easterness and the Moray coast.

[Picris echioides L. Bristly Oxtongue] o h 6
Helminthotheca echioides (L.) Holub

Building rubble, arable land, roadsides and disturbed ground on clay soils

Recorded from Easterness and the Moray coast.

[Picris hieracioides L. Hawkweed Oxtongue] h 7
Picris spinulosa sensu C. Britton, non Bertol. ex Guss.

Grassland, arable field margins, wood margins, roadsides, railway banks and grassy waste ground.

Recorded from Easterness and the Moray coast.

Tragopogon pratensis L. Goat's-beard h 6
Tragopogon pratensis subsp. **minor** (Mill.) Wahlenb.
Tragopogon minor Miller

Meadows, waysides, railway banks, long grass and roadsides. Very local and rare.

Helmsdale harbour		15/07/1973	A.J. Suter
Drumlea Farm Bonar		15/07/1979	M. McC. Webster
Helmsdale	ND034152	07/08/1999	BSBI

NC71 ND01 NH69

Drumlian Road Bonar Bridge	NH606924	council houses	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010

NVC: CG 2-5; MG 5; OV 23

[Tragopogon porrifolius L. Salsify] • h 6

A rare alien, casual on waste ground and rubbish tips. The flowers are deep purple and the pappus hairs are a distinctive dirty brown (not white).

Recorded from the Moray coast.

Sonchus arvensis L. Perennial Sow-thistle h 7
Sonchus arvensis L. subsp. *uliginosus* auct., non (M. Bieb.) Nyman

Wet sandy shores and cultivated fields. Also on roadsides, hedge-banks and banks of rivers. Occasional throughout the lowlands.

NC40 NC70 NC80 NC84 NC90 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Carnegie Golf Course	NH731871	shingle beach	10/07/2010
Dunrobin Castle beach	NC849004	shingle beach	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Maikle Kyle of Sutherland	NH595936	tidal riverbank	12/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Littleferry Dunes	NH807957	sand dunes	08/05/2011
S Embo links	NH815920	links	14/05/2011
Mound Rock	NH770980	composite	11/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Brora S beach	NC909034	shingle beach	09/09/2012
Kintradwell	NC918070	roadside	07/09/2012
Dornoch Stream	NH803889	streamside	20/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Common Good	NH806873	sand dune	30/06/2013
Coul Links	NH805953	shingle beach	04/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
Newton Point	NH711876	shingle beach	11/07/2013
Newton Point	NH713877	shingle beach	24/06/2014
Little Ferry	NH805956	hamlet	12/06/2015
Little Ferry	NH805956	hamlet	14/05/2015

NVC: SM 18, 24, 28; SD 1-7, 13, 14, 16, 18; OV 8,9,13,16,19; S 4,18,26

Sonchus oleraceus L. *Smooth Sow-thistle*

b 6

Cultivated ground and waste places. Abundant in the lowlands, but not found in any semi-natural habitats.

NC40 NC50 NC70 NC73 NC80 NC84 NC90 NC91 NC92 ND01 NH68 NH69 NH78 NH79 NH89

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010

Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Golspie Station	NH825997	railway	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Back Road Golspie	NC829000	council houses	08/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Clynelish Distillery Brora	NC896054	waste ground	08/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
N Portgower	ND013137	roadside	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Bonar Bridge	NH610914	village	07/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Pittentrail	NC726019	village	04/05/2013
Helmsdale	ND026154	village	05/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Main Street Brora	NC903039	street	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Embo	NH817928	village	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Ross Terrace Brora	NC905038	railway	01/07/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013

Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Coastguard Station Dornoch	NH802892	waste ground	08/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
West Clyne	NC905064	hamlet	14/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015

NVC: OV 3,7,8,10,13,14,19,22,23,25

Sonchus asper (L.) Hill *Prickly Sow-thistle*

Sonchus oleraceus L. var. *asper* L.

Sonchus asper (L.) Hill subsp. *glaucescens* (Jordan) Ball

th 6

Cultivated ground and waste places in towns and villages. Occasional in the lowlands.

NC30 NC40 NC42 NC50 NC60 NC70 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cathedral	NH797897	churtyard	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Golspie Station	NH825997	railway	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Rhivra Spinningdale	NH667907	roadside	10/07/2010
Languish Road Junction	NH644919	waste ground	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Ord of Caithness	ND057179	roadside	11/07/2010

Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Dunrobin Castle beach	NC849004	shingle beach	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Embo	NH817928	waste ground	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
Invershin Station	NH580953	railway	12/07/2010
Camore	NH778903	council houses	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Marians Rock	NC747012	cliff	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Clynesh Distillery Brora	NC896054	waste ground	08/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kildonan Church	NC910207	churchyard	11/05/2011
A9 verge S of Lothbeg	NC941098	roadside	11/05/2011
N Portgower	ND013137	roadside	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golf Course Golspie	NH826995	bungalows	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Balvraid Wood	NH775940	plantation	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Strath Fleet	NC657043	roadside	10/07/2011

Embo Street Hilton	NH796913	hamlet	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kirkton railway crossing	NH798985	railway	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Strath Helmsdale	ND022171	roadside	05/05/2013
Badair Dhonnadh Wood	NC415013	roadside	06/05/2013
Dalphaid Glen Cassley	NC397145	croft	06/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Brora Industrial Estate	NC905041	waste ground	07/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Main Street Brora	NC903039	street	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Embo	NH817928	village	08/05/2013
Carnegie Golf Course	NH732872	works gate	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Firth Road Bridge	NH747863	embankment	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
A9 S of Brora	NC901036	roadside	01/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Davochfin	NH778889	hamlet	04/07/2013
Glashbuie North Brora	NC903053	derelict building	05/07/2013
Carn Liath	NC867013	lane	05/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Dunrobin Beach Walk	NC842002	coastal grassland	06/07/2013
A9 underpass at Ord	ND048173	roadside	07/07/2013
Ord of Caithness	ND057173	coastal cliffs	07/07/2013
A9 verge at Underpass	ND048173	roadside	07/07/2013
Helmsdale	ND027153	terrace	07/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Academy Street Brora	NC902044	dry banks	07/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Rosehall	NC470022	village	09/07/2013

Stafford Road Dornoch	NH801899	council houses	10/07/2013
Flood Bay	NH712882	coastal grassland	11/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Achue turning	NH684894	roadside	24/06/2014
A389 Braemore Grudie Burn	NC543026	roadside	24/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014
West Helmsdale	ND020157	hamlet	27/06/2014
Grudie Burn	NC552034	stream bank	24/06/2014
Ord Place Lairg	NC580058	council houses	10/05/2015
Fiag Lodge green roof	NC454281	bare ground	26/06/2014
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Brora Industrial Estate	NC901034	grassland	14/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Helmsdale Station Yard	ND023155	waste ground	17/06/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Kildonan Station Cottage	NC901216	disturbed ground	17/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
sea cliffs N of Helmsdale	ND035153	soft sea cliff	17/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

NVC: MG 1; OV 3,4,7-10,12,13,15,16,18,19,21,23,25,33,41,42; S 23

[Lactuca sativa L. *Garden Lettuce*]

• hs 6

Leaves are commonly found on tips and compost heaps from culinary waste, but the rooted plants are seldom found outside gardens. Soon disappears after abandonment of cultivation and is very rare on old allotments.

Recorded from the Moray coast.

[Lactuca serriola L. *Prickly Lettuce*]

○ b 7

Lactuca scariola L.

Railway banks, waste ground, derelict building sites and rubbish tips.

Recorded from the Moray coast.

Cicerbita macrophylla (Willd.) Wallr. *Common Blue-sow-thistle*

• h 7

Sonchus macrophyllus Willd.

Mulgedium macrophyllum (Willd.) DC.

Mulgedium uralense Rouy

Roadsides and waste places near houses; rare, but established and possibly increasing. An established garden escape, well naturalized on rough ground and in waste places, often in partial shade (e.g. at the base of damp hedgerows or where direct sunlight penetrates the woodland edge).

ND01

Lothmore Church	NC971113	churchyard	11/07/2010
Astle	NH745919	hamlet	10/05/2011
Wester Drumlich	NH607934	hamlet	09/07/2011

[**Cicerbita bourgaei** (Boiss.) Beauverd *Pontic Blue-sow-thistle*]

• h 7

Mulgedium bourgaei Boiss., *Lactuca bourgaei* (Boissier) Meyer

A tall (2m) blue-flowered garden plant, with ovate-rhombic terminal leaf lobes. Rarely planted in or near wild gardens because it has such a fierce reputation.

Recorded from the Moray coast.

Mycelis muralis (L.) Dumort. *Wall Lettuce*

hp 7

Prenanthes muralis L.

Lactuca muralis (L.) Gaertner

Walls, pavements and other open urban habitats, including damp, shaded alleyways and derelict buildings. Very local and rare. A roadside casual in Dornoch in 1966. Much commoner in Inverness and further south.

Dornoch	NH797896	15/07/1966	John Anthony
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NH78

Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011

Taraxacum officinale *Dandelion*

hr 4

Meadows, waste ground, roadsides, lawns, cultivated fields, etc. Abundant and generally distributed in the lowlands.

The Dandelions are almost all apomictic; they produce seeds by asexual reproduction. Some dandelions need to be pollinated before this can happen, but the seeds are genetically identical to their

mothers, and no genes from the pollen are incorporated in the genome of the offspring. The aggregate is widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH39 NH59 NH69 NH78 NH79 NH88 NH89

The few taxa confirmed from vc. 107 are simply listed below:

Taraxacum atactum NC51
Taraxacum croceiflorum

Armadale NC795645 19/05/1973 J.K. Butler det. A.J. Richards

Taraxacum euryphyllum NC90
Taraxacum faeroense NC30 NC33 NC51 NC83 NC93 NH39

These records all det. R. Pankhurst

Loch Feur	NC370310	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Creag Dhubh	NC807391	crags	15/07/2011
Loch Airighe Mhor	NC688022	bog	16/07/2011
Loch na Caillich	NC500080	composite	16/07/2011

Taraxacum haworthianum NC90 NH88
Taraxacum landmarkii NC51
Taraxacum maculosum NC80
Taraxacum nordstedtii NC80

Armadale or Strathy Dunes NC700600 19/05/1973 J.K. Butler det. A.J. Richards

Taraxacum obliquum NC90 NH88
Taraxacum oxoniense NC90 NH88
Taraxacum subcyanolepis NC90
Taraxacum subnaevosum NC51
Taraxacum unguilobum NC51 NH79

Shinness Lodge NC539141 estate 11/07/2011 R. Pankhurst

There is great scope for new field work in this genus.

Crepis capillaris (L.) Wallr. *Smooth Hawk's-beard*
Crepis virens
Lapsana capillaris L.

th 6

Grassland, lawns, waste ground and cultivated fields, meadows, dry banks, sides of roads, and heaths; very common and widely distributed. Druce separated 4 varieties, but these are not distinguished here.

NC30 NC40 NC43 NC50 NC51 NC60 NC63 NC70 NC73 NC74 NC80 NC81 NC82 NC83 NC84
NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2-4; MG 5; OV 4,9,18,19,23,27,42; W 23; SD 7-9, 16, 19

Crepis paludosa (L.) Moench *Marsh Hawk's-beard*

h 6

Barkhausia foetida (L.) F.W. Schmidt

Rocky streams-sides and wet places in open woodland and grassland. Locally frequent.

NC30 NC31 NC32 NC33 NC40 NC41 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70 NC71
NC80 NC81 NC82 NC91 NC92 NC93 ND01 NH69 NH78 NH79

Ravens Rock Gorge	NC498011	woodland	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Glen Cassley	NC455050	riverbank	10/05/2011
Blarich	NC695041	stream	13/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
East Clyne	NC893062	stream	12/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Kinbrace Burn	NC877284	stream	19/06/2011
Torboll Farm S	NH750980	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
Doire Dubh	NC365327	dripping cliff	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Achany Glen	NC570020	woodland	16/05/2012
Glen Sletdale	NC931124	flush	01/07/2013
PROSAMO sites Sallachy	NC560656	birch wood	02/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Torrish Burn Kildonan	NC968190	streamside rocks	05/07/2013
Coill' an Tosgaire Oykel	NC340515	wet heath	09/07/2013
Coill' an Tosgaire Oykel	NC344500	birch wood	09/07/2013
R Evelix at Achosnich	NH729935	wooded riverbank	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
Allt a' Choire Mhoir	NC914175	stream	20/06/2015

Craggie Bridge	NC913192	rocky stream	20/06/2015
upper Allt Sgrigil wood	ND024175	woodland	14/06/2015
Allt Cragaidh Gordonbush	NC861097	rocky stream	15/05/2015

NVC: MG 8; CG 14; U 15-17; W 3, 7, 9

Crepis vesicaria L. *Beaked Hawk's-beard*

Crepis vesicaria subsp. **taraxacifolia** (Thuill.) Thell. ex Schinz and R. Keller

• b 5

Crepis taraxacifolia Thuill.

Crepis polymorpha Pourret

Crepis vesicaria L. subsp. *haenseleri* (Boiss. ex DC.) Sell

Still a relatively rare plant in Scotland. The achenes have distinctively long beaks.

Camore Wood	NH771894	gravel pit	11/07/2010
Pittentrail	NC726020	village	12/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Marrel	ND016173	hamlet	14/06/2015

Crepis setosa Haller f. *Bristly Hawk's-beard*

h 6

Casual on rough waste ground. Very local and rare.

NH59

Pilosella officinarum F.W. Schultz and Sch. Bip. *Mouse-ear-hawkweed*

h 5

Hieracium pilosella L.

Heaths, dry banks, pastures and churchyards; rather common and widely distributed, preferring sandy or gravelly soils. Short, dry grassland, dry banks and walls on acid or calcareous soils. Widespread and common.

NC30 NC31 NC40 NC41 NC50 NC51 NC60 NC63 NC70 NC71 NC72 NC73 NC80 NC81 NC82
NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH39 NH49 NH59 NH68 NH69 NH78 NH79 NH88
NH89

Helmsdale Station	ND020155	railway	06/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Crackaig Links	NC960100	coastal grassland	11/07/2010
Glaslochan Links N Brora	NC912060	coastal grassland	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH801958	Cladonia heath	11/07/2010
Wester Lonemore	NH758877	coastal heath	11/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Glen Cassley	NC455050	riverbank	10/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011

Muie	NC669044	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Tower Farm Golspie	NC835011	roadside	09/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Brora Harbour	NC909037	village	12/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Free Church Migdale	NH626921	churchyard	07/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Wind Sock Dornoch Airfield	NH800883	sand dunes	09/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
Golspie Caravan Park	NH821982	links	14/05/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore	NH540990	woodland	12/07/2011
Oykel Bridge E	NC390000	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Ach an Fhionnfhuaraidh	NC899240	grassland	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Railway at vc 107 boundary	NC878403	railway	15/07/2011
Ben Griam Mor W crags	NC800380	crags	15/07/2011
Rhemusaig Quarry Rogart	NC731020	abandoned quarry	10/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Royal Dornoch Golf Club	NH803893	sand dune	20/05/2012
Royal Dornoch quarry	NH806895	quarry	20/05/2012
Badfluich Turning	NC505015	conifer plantation	19/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012

etc.

NVC: CG 5-10, 13, 14; OV 37-39; U 1; SD 7-9, 12, 13, 16; MC 4, 5, 9, 11

[*Pilosella caespitosa* (Dumort.) P.D. Sell & C. West *Yellow Fox-and-cubs*] • h 6
***Pilosella caespitosa* subsp. *colliniformis* (Peter) P.D. Sell & C. West**
Hieracium collinum subsp. *colliniformis* Peter

A rare garden plant, like a yellow-flowered version of *H. aurantiaca*.

Recorded from Easternness and the Moray coast.

Pilosella aurantiaca* (L.) F.W. Schultz and Sch.Bip. *Fox-and-cubs • h 6
Hieracium aurantiacum L.
Hieracium aurantiacum L. subsp. *carpathicola* Naeg. & Peter
Hieracium brunneocroceum Pugsley
Pilosella aurantiaca (L.) F. Schultz and Schultz-Bip. subsp. *brunneocrocea* (Pugsley) Sell and C. West

***Pilosella aurantiaca* subsp. *carpathicola* (Nageli and Peter) Soják** • h 6

Woodland rides, lawns, urban waste land or roadsides near houses and gardens. The stolons are mostly above ground, and basal leaves small (mostly 6-10cm rather than 10-20cm as in subsp. *aurantiaca*). Local and uncommon, but sometimes abundant in damp lawns.

Evelix 13/07/1983 M.J. Burnhill

NC50 NC70 NC82 NH79

Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall	NC470021	village	12/07/2010
A836 N of Invershin	NH579954	roadside	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Mound Rock	NH770980	roadside	11/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012

Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Helmsdale	ND026154	village	05/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Loch Front Embankment	NC581062	loch shore	02/07/2013
Carn Liath	NC867013	lane	05/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Academy Street Brora	NC902044	dry banks	07/07/2013
Brora Industrial Estate	NC905041	waste ground	07/07/2013
Achormlarie Forest	NH693949	forest road	09/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Ross Avenue Dornoch	NH792897	new housing	29/06/2014
Braambury Road Brora	NC904048	bungalows	11/05/2015
Invercassley House Rosehall	NC474015	parkland	28/06/2014
A9 Lairg Junction	NH778983	roadside	26/06/2014
Lairg	NC579068	bungalows	10/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
School Road Helmsdale	ND027155	village	14/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Harbour Road Helmsdale	ND026154	village	17/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Park Terrace Brora	NC905040	village	13/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

Pilosella x stoloniflora (Waldst. & Kit.) F.W. Schultz & Sch. Bip
= ***P. officinarum*** x ***P. aurantiaca***

Intermediate in petal colour and in the number of capitulae per scape. Local and rare.

NC83

Hieracium L. *Hawkweeds*

This genus is comprised of countless apomictic species that produce asexual seeds, each of which has a carbon copy of its mother's genotype. This account has been written with considerable help from David McCosh (dj.mccosh@virgin.net) who has kindly contributed both the key to sections and the instructions for collection of specimens.

Garden plants with heavily purple-blotched leaves frequently found as escapes, especially in southern Britain, are *H. spilophaeum* and *H. scotostictum*. Neither has yet been reported from vc. 107.

Plants stoloniferous ***Pilosella*** spp. (above)
Plants not stoloniferous ***Hieracium*** 1.

This draft key to Sections of *Hieracium* was kindly provided by David McCosh (2011)

- | | | |
|-----|---|---|
| 1. | Leafy sections: 7 or more cauline leaves
Less leafy sections: (usually) 6 or fewer cauline leaves | 2
5 |
| 2. | Usu. tall plants with many linear-lanceolate scaberulous leaves, mostly subentire or with short teeth; leaves not reticulate-veined beneath; phyllaries glabrous or nearly so; styles \pm yellow
Not as above | [HIERACIOIDES]
3 |
| 3. | Plants with many smallish heads; phyllaries and peduncles densely covered with yellowish/blackish glandular hairs; leaves often waisted above the amplexicaul base.
Robust many-leaved plants with roughly hairy stems; leaves not amplexicaul, veining not prominent; styles usually discoloured
Not as above | [PRENANTHOIDEA]
[SABAUDA]
4 |
| 4. | Median leaves rounded and semi-amplexicaul at base, markedly reticulately-veined
Median leaves \pm narrowed to a non-amplexicaul base; leaves often decreasing rapidly in size upwards
Plants with broader and fewer leaves with wider internodes
Plants with 3-6 cauline leaves; whole plant covered with viscid glandular hairs
Not as above | FOLIOSA
TRIDENTATA
ALPESTRIA
[AMPLEXICAULIA]
6 |
| 5. | Dwarf plants, normally at over 650m, with 1-2 large heads, small cauline leaves and a rosette; heads with medium/long black-based hairs and \pm visible black glands and 0-few stellate hairs. Ligules hairy. Leaves with minute glandular hairs on margins and top surface.
Somewhat larger plants also with dark heads, usually at 500m, often near water; cauline leaves few; capitula 1-8; ligule tips hairy; leaves sometimes with minute glandular hairs
Not as above | ALPINA
SUBALPINA
7 |
| 7. | Plants with long straight peduncles and large heads; leaves glaucous
Plants with \pm numerous smaller heads, shorter curved or straight peduncles;
leaves green, purplish or spotted | 8
10 |
| 8. | Plants softly hairy; ligules usually hairy-tipped; styles discoloured
Leaves with stiff stout-based hairs on margins and + on top surface; ligules usually glabrous-tipped; styles usually yellow | CERINTHOIDEA
9 |
| 9. | Cauline leaves 2-6(8), basal leaves few
Cauline leaves 0-1, basal leaves more numerous | OREADEA
STELLIGERA |
| 10. | Cauline leaves 2-8, basal leaves few
Cauline leaves 0-1, basal leaves usually numerous | VULGATA
HIERACIUM |

Two rare introduced densely woolly/tomentose species **H. lanatum** and **H. pilosum** occur in Britain and are not recognized in the above key.

The species and sections in square brackets are no longer recognized as occurring in vc. 107;

Hieracium alpinum Alpina NC43 Ben Hee
 [**Hieracium ampliatum** NC30 NC31 NC33]
Hieracium anglicum Cerinthoidea NC30 NC90 NH79 Cambusmore
Hieracium argenteum Stelligera NC30 NC80 NH69 NH79 Oykel Bridge, Golspie, Brora;
 Migdale NH650900 16/07/1979 M. McC. Webster det. Sell & West

see also **H. hypophalacrum**

Hieracium aristidens Subalpina NC33
Hieracium caesiomurorum Hieracium NC43 NC80 NH59
 [**Hieracium caledonicum** NC31 ND01]
 [**Hieracium centripetale** NC33]
Hieracium cerinthiforme Cerinthoidea NC33 NC91
Hieracium cravoniense Vulgata NC30 NH79 Oykel Bridge, Torboll
Hieracium dasythrix Subalpina NC33
 Meall an Fheur Loch NC300300 15/07/1973 A.G. Kenneth det. Sell & West
Hieracium dicella Stelligera NH79 Cambusmore
 [**Hieracium diversidens** NC84]
Hieracium dovreense Alpestria NC33 and in 2010 at Creag na h-Uidhe [NC 38309
 37133] (T.Rich)
Hieracium duriceps Hieracium NC30 NH59 NH69 Oykel Bridge

Migdale NH650900 16/07/1979 M. McC. Webster
 Cambusmore NH761976 13/07/1983 BSBI det. A. McG. Stirling

Hieracium glandulidens Subalpina NC33 NH69

Hieracium globosiflorum Alpina

Meallan a Chuail NC300200 15/07/1975 A.G. Kenneth det. Sell & West

Hieracium grampianum Stelligera NC79
 [**Hieracium hebridense** NC33]
Hieracium holosericeum Alpina NC32 NC33 NC43 Ben More Assynt



Between Loch Merkland and Loch Shin, the skyline to the west is dominated by Ben More Assynt (998 m), across the waters of Loch a' Ghriama.

Hieracium hypophalacrum	Stelligera	NC80							
Hieracium iricum	Cerinthoidea	NC30	Oykel Bridge						
[Hieracium jovimontis	NH79]	now renamed as H. grampianum							
Hieracium lanatum	Andryaloidea	NH89							
Hieracium langwellense	Cerinthoidea	NC30	NC50	NC80	NC91	ND01	NH79	Oykel	
	Bridge								
Culmaily by Golspie	NH802997	15/07/1983	BSBI det. A. McG. Stirling						
Hieracium latobrigorum	Foliosa	NC30	NC50	NC60	NC70	NC80	NH79	Bonar	
	Bridge, Oykel Bridge, Strath Brora								
Hieracium lingulatum	Subalpina								
Carn Dearg	NC300300	15/07/1975	A.G. Kenneth det. Sell & West						
[Hieracium marginatum	NC32 NC33]	(now renamed as H. neomarginatum)							
Hieracium melanogloch	Foliosa	NC40							
Hieracium mundum	Alpina	NC33							
Hieracium neomarginatum	Alpina	NC32	NC33						

Meallan a Chuail	NC300200	15/07/1975	A.G. Kenneth det. Sell & West
Hieracium nitidum	Stelligera	NC33 NC83	Ben Griam
Ben Horn	NC810062	11/07/1983	BSBI det. A. McG. Stirling
Hieracium orcadense	Hieracium	NC83	
Hieracium orimeles	Oreadea	NC80 NH79	
Hieracium oxybeles	Cerinthoidea	NC90 NH79	
[Hieracium petrocharis	NC32]		
Hieracium pictorum	Hieracium	NC33 NC40	Oykel Bridge
Hieracium piligerum	Hieracium	ND01	
Hieracium pollinarioides	Hieracium	NC74	
Hieracium reayense	Foliosa	NC30 NC70 NH79	
Hieracium reticulatiforme	Foliosa	NH59,79	
R Fleet Torbreck	NC705036	21/08/1978	M.J. Marshall det. C. Andrews
[Hieracium reticulatum	NC30 NC60 NC70 NC71 NH79	Oykel Bridge] see H. reticulatiforme ,	
H. reayense and H. melanoglochis			
[Hieracium rhomboides	NC33]		
Hieracium rivale	Hieracium	NC83	Ben Griam Mor
Hieracium rubiginosum	Vulgata	NC33	
Hieracium saxorum	Stelligera	NC84 NH79	Mound Rocks
Carrol Rock	NC848077	25/06/1980	M.J. Marshall det. C. Andrews
Cambusmore	NH761976	14/07/1983	BSBI det. A. McG. Stirling
[Hieracium schmidtii	ND01]		
[Hieracium senescens	NC43]		
Hieracium shoolbredii	Cerinthoidea	NC30 NC31	
Hieracium sparsifolium	Tridentata	NC30 NC40 NC70	Oykel Bridge, River Fleet at Rogart
Lettie Burn Tressady	NC695042	21/08/1978	M.J. Marshall det. C. Andrews
Hieracium strictiforme	Foliosa	NC40 NC90	
West Pittentrail	NC715027	20/07/1978	M.J. Marshall det. C. Andrews
Hieracium subcrocatum	Foliosa	NC90	Brora
Hieracium subglobosum	Alpina	NC32 NC33	
Hieracium subhirtum	Hieracium	NC30 NC33	
Craig na h 'Uidhe	NC300300	15/07/1973	A.G. Kenneth det. Sell & West
Hieracium suplanifolium	Stelligera	NH79	
Hieracium subrude	Oreadea	NC70 NH79	
Hieracium subtenuae	Hieracium	NC32	Oykel Bridge
Hieracium subumbellatiforme	Foliosa	NC50	
Hieracium uiginskyense	Tridentata	NH79	

[**Hieracium uistense** NC33]
Hieracium vulgatum Vulgata NC30 NC33 NC60 NC71 NC80 NC90 ND01
 NH59 NH78 NH79 NH88 NH89 Oykel Bridge, Golspie, Brora

Cambusmore NH761976 14/07/1983 BSBI det. A. McG. Stirling

There is great scope for new field work in this genus.

COLLECTION, PRESERVATION AND DETERMINATION OF HAWKWEEDS

by David McCosh (2011)

1. Collection and preservation

- (i) Take 2 typical specimens, undamaged, at first flowering. Cut with a sharp knife just above the rootstock. (The plant will come again from the rootstock)
- (ii) Note style and leaf colour and texture; whether ligule tips are glabrous or not; capitulum diameter.
- (iii) Press between drying paper to remove moisture as quickly as possible. Change drying paper frequently or apply gentle heat. Avoid long term storage in newspaper; it will rot your plants. Long term storage should be on acid free paper or card

Lay out plants when drying to show features to ease determination:

- typical silhouette for median stem and basal leaves
- upper and lower leaf surfaces
- shape of inflorescence
- side elevation of capitulum
- phyllary shape and hair covering

2. Determination

Determination of hawkweeds is nearer an art than a science, and it is necessary to use a combination of aids to arrive at a successful result. For most people an approach using reference books, existing distribution knowledge and comparison with authenticated material yields the best results.

(i) Reference books: Sell, PD & Murrell, G (2006): *Flora of Great Britain and Ireland* Volume 4. Campanulaceae-Asteraceae. Cambridge University Press, Cambridge. This has a comprehensive new account of Hieracium. *Prodromus of the British Hieracia* (Pugsley) in J Linn. Soc Vol 54) can still provide insights. A distribution Atlas of the British and Irish Hieracia was published by BSBI in 2011.

(ii) Approach:

- Note locality, gridref, date and broad habitat of collection
- Allocate plant to Section(s) using a combination of the rough guide to Sectional characters and the Sectional descriptions in Stace.
- List possibilities from the distribution indicated by the relevant VC Census Catalogue
- Compare with authentic material in the nearest reputable herbarium

N.B. The taxonomy in Sell and Murrell and in Pugsley is not identical

(iii) Hieracium reference collections:

7 major collections have been re-determined in recent years, CGE, BM, NMW, E, MANCH, BEL and DBN. Of these, CGE (University of Cambridge Herbarium) has the largest volume of recent material as well as the herbaria of ES Marshall and A Ley, two of the greatest 19th century hawkweed collectors. BM is excellent, but much of the material is old and there are a few gaps in the collection. E and NMW are less complete but have much good material, including the collections of JE Raven and WA Shoobred. BEL and DBN have only been re-determined for their Irish material.

Smaller collections at GL and PTH were also re-determined some years ago, but tend to be more local in their coverage.

To conclude, consult the 'local' expert. Although there are no official referees, local botanists are often familiar with the taxa in their area and can point these out to aspiring students. Make a small reference collection with the expert's help and then match your findings against this collection. Finally with increasing familiarity attempt your own determinations using the procedure indicated above.

Gazania rigens (L.) Gaertn. *Treasureflower* • th 5
 Othonna rigens L.
 Gazania uniflora (L.f.) Sims
 Gazania splendens hort. ex Henderson and A. Henderson
 Gazania rigens (L.) Gaertner var. uniflora (L.f.) Roessler

A very popular garden plant, occasionally thrown out.

Filago vulgaris Lam. *Common Cudweed* th 7
 Gnaphalium germanicum L., nom. inval.
 Filago germanica L., non Hudson

Dry heaths, acid grassland, sandy arable land on acid soils, bare places on railway banks. Capitula many (20 to 40) in each cluster, the most apical leaves do not overtop the capitula. Local and uncommon.

NC50 NC60 NC70 NC71 NC80 NC82 NC90 ND01 NH59 NH78 NH79 NH89

NVC: not classified

Filago minima (Sm.) Pers. *Small Cudweed* th 6
 Gnaphalium minimum Smith
 Logfia minima (Smith) Dumort.

Dry places on sandy commons and heaths in sunny places. Capitula few (2-7), with the apical leaves not overtopping capitula. Occasional.

NC50 NC60 NC70 NC71 NC80 NC81 NC82 NC90 ND01 NH78 NH79 NH89

Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH801958	<i>Cladonia</i> heath	11/07/2010
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Dalnabreac	NC686038	roadside	10/07/2011
Mound Rock	NH770980	crags	11/07/2011

Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Littleferry	NH 810958	sand	17/07/2012 Harle & Young

NVC: SD 11; U 1

Antennaria dioica (L.) Gaertn. *Mountain Everlasting*

h 6

Mountain crags, dry heaths, pastures and acid dunes. Widespread and locally frequent.

Ben Hee		15/07/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth
Meallan a Chuail		15/07/1973	A.G. Kenneth
Braegrudie Strath Brora	NC716102	15/04/1976	J.E. Kirby
Dailfeusaig Strath Brora	NC697112	15/04/1976	J.E. Kirby
Loch Craggie Lairg		15/07/1976	M.J. Marshall

NC30 NC31 NC32 NC33 NC40 NC42 NC43 NC52 NC60 NC61 NC62 NC63 NC70 NC71 NC73
NC74 NC80 NC81 NC83 NC84 NC91 NC92 NC93 NH69 NH79 NH88 NH89

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Creag na h-Uidhe	NC 384352	upland heath	27/07/2010
Kildonan Burn Falls	NC911216	stream	19/06/2011
Halmadarie	NC697318	dry heath	20/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
W summit Ben Gram Mor	NC800390	gravel	21/06/2011
Ben Griam Mor W-facing	NC801389	crag	21/06/2011
Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Ben Griam Mor NW-facing	NC797395	crag	21/06/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Meallan Liath Mor	NC417334	mountain ridge	13/07/2011
Ben Hee	NC422337	mountain ridge	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Ben Griam Beg	NC840410	mountain ridge	15/07/2011
Ben Griam Mor W	NC800380	crag	15/07/2011
Ben Griam Mor SW	NC800380	crag	15/07/2011
Ben Griam Mor	NC800390	crag	15/07/2011
Ben Griam Mor	NC807391	crag	15/07/2011
Ben Griam Beg	NC830400	mountain ridge	15/07/2011
Ben Griam Beg	NC830410	mountain ridge	15/07/2011
Beinn Dhorain crags	NC932154	rocks	09/09/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Sron Lom Glen Cassley	NC358208	crag	03/07/2013
Ben Horn E crags	NC810062	conglomerate	06/07/2013
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
Meall an Fheur Loch	NC360318	summit heath	08/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Beinn an Eoin summit	NC392083	summit heath	28/06/2014
Beinn an Eoin summit	NC388082	summit heath	28/06/2014
Ben Hee NE slope	NC420330	upland	29/05/2014

The Craggan	NC904168	rocky heather	20/06/2015
Craggie Bridge	NC913192	rocky stream	20/06/2015
Beinn a' Mhadaidh summit	NC769414	rocks	18/06/2015

NVC: H 10, 13-17, 19, 20; CG 9-14; U 10

Also found as an uncommon garden escape in villages and hamlets

Embo Street Hilton	NH800913	hamlet	10/07/2011
Fleuchary	NH763916	hamlet	09/07/2013

Anaphalis margaritacea (L.) Benth. *Pearly Everlasting*
Gnaphalium margaritaceum L.

• h 8

An occasional garden plant from perennial borders, rather rare as a garden escape or throw-out. On heathy waste ground, sea cliffs and waysides. Also recorded from Easterness and the Moray coast.

Brora	NC910041	suburbia	11/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Badintagairt Glen Cassley	NC428102	croft	10/05/2011
Muie	NC669044	hamlet	13/05/2011
Brora Harbour	NC909037	village	12/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Cavaig North Brora	NC894041	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Gilmour Crescent Bonar Bridge	NH610917	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Rosehall	NC470022	village	09/07/2013
Kinbrace Station Cottage	NC862316	garden	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Rosehall	NC470021	village	10/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Muie	NC669044	hamlet	12/06/2015

Gnaphalium sylvaticum L. *Heath Cudweed*

h 7

Omalotheca sylvatica (L.) Schultz-Bip. & F. Schultz

Bare dry ground on tracks in woods, dried-out lake margins, heaths and commons. A short-lived perennial of dry open woods and sandy heaths on acid sands, often found with *Veronica officinalis*.

NC40 NC42 NC50 NC60 NC70 NC71 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91
NC92 ND01 NH69 NH78 NH79 NH89

Camore Wood	NH771894	gravel pit	22/07/1992
Camore Wood	NH771894	gravel pit	11/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Creag na h-Uidhe	NC 382329	upland heath	27/07/2010 Mark Jannink
Loch Badanloch outflow	NC789331	loch side	20/06/2011
Balvraid Wood	NH775940	plantation	09/07/2011
Loch Shin	NC505143	rocky shore	02/07/2013
Strath of Kildonan	NC957185	ravine birch wood	05/07/2013

NVC: not classified

***Gnaphalium supinum* L. Dwarf Cudweed**

h 7

Omalotheca supina (L.) DC.

Bare places on mountain tops amongst rocks and gravel. Very local but frequent where it occurs.

Ben More Assynt		15/07/1964	D.A. Ratcliffe
Ben Hee		15/07/1973	A.G. Kenneth
Creag na h'Uidhe		15/07/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth
Ben More/Conival ridge	NC307201	12/07/1998	Gordon Rothero

NC31 NC32 NC33 NC43 NC52 NC63

Ben Hee	NC420320	mountain ridge	13/07/2011
Ben Hee	NC422337	mountain ridge	13/07/2011

NVC: CG 10-12; U 7, 10-14, 18

***Gnaphalium uliginosum* L. Marsh Cudweed**

th 7

Filaginella uliginosa (L.) Opiz

Damp arable land, gateways, market gardens, roadsides, rutted tracks, pond sides, and places where water has stagnated; common and generally distributed.

Ferry Croft Lairg	NC580062	15/09/1974	J.E. Kirby
Dalchork Bridge Tirryside	NC573111	15/07/1975	J.E. Kirby
Morvich	NC745013	15/08/1975	J.E. Kirby
A837 car park Loch Eileag	NC311068	15/09/1975	J.E. Kirby
Muie		15/08/1976	M.J. Marshall

NC30 NC40 NC41 NC50 NC51 NC60 NC70 NC81 NC83 NC90 NC91 NC92 ND01 NH69 NH78

Longuish Road Junction	NH644919	waste ground	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Ballinreach	NC930083	coastal grassland	23/06/2011
Dalnabreac	NC686038	roadside	10/07/2011
W of Mound Rock	NH767993	poached ground	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Academy Street Brora	NC902446	dry banks	07/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Kildonan Station approach	NC901217	compacted gravel	17/06/2015

NVC: OV 4,9,19-21,28,30,31,33,35; S 15; U 1

Helichrysum petiolare Hilliard and B.L. Burt *Liquorice Plant* ● h 7

An essential component of the hanging basket flora, used for its spreading, silvery leaves. Very rare as an outcast, and seldom self-seeding.

Skibo Castle S front	NH737890	parkland	11/07/2013
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Helichrysum italicum (Roth) G Don. *Curry Plant* ● h 7

A silver leaved garden plant whose leaves smell strongly of curry when crushed. A rare garden outcast.

Skibo Castle S front	NH737890	parkland	11/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
River Street Dornoch	NH799893	bungalows	17/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Inula orientalis Lam. ● h 7



A striking garden plant, known at once when in flower by the long, feathery golden hairs that cover its involucre.

Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012

[*Inula helenium* L. *Elecampane*]

○ h 7

Pastures, plantations and hedge-sides; local, but sometimes well established. A statuesque plant (up to 2m tall) with alternate leaves that clasp the stem with conspicuous rounded lobes.

Recorded from Easternness and the Moray coast.

Telekia speciosa* (Schreb.) Baumg. *Yellow Oxeye
Bupthalmum speciosum Schreber

● h 7

A statuesque garden plant of moist grassy places, often planted near water features. The feathery involucre bracts are characteristic.

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Kildonan Lodge	NC904223	parkland	09/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Sallachy Memorial	NC547090	memorial	02/07/2013

Skibo Castle S front NH737890 parkland 11/07/2013

Solidago virgaurea L. *Goldenrod*
Solidago angustifolia Miller

h 7

Dunes, pastures, banks and rocks on acid sandy soils from sea-level to the summits of the highest mountains. Widespread and common in a broad range of habitats.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC52 NC60 NC62 NC63 NC70 NC71
NC72 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69
NH78 NH79 NH89

Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Glen Cassley	NC455050	riverbank	10/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
East Clyne	NC893062	stream	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Salmon ladder	NH740980	woodland	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Linsidmore	NH540990	woodland	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Rhemusaig Quarry Rogart	NC731020	abandoned quarry	10/09/2012
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Kildonan Bridge	NC902216	riverbank	09/09/2012
Doire Dubh	NC365327	dripping cliff	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
R Cassley Rosehall Bridge	NC471022	riverbank	08/09/2012
Brora Bridge	NC905039	river gorge	07/09/2012
Riverside Brora	NC905040	semidetached	07/09/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Creag a'Bhodaich Sletdale	NC914136	crag	01/07/2013
Glen Sletdale	NC915161	crag	01/07/2013
Carn Garbh Glen Sletdale	NC906142	crag	01/07/2013
Carn Garbh Glen Sletdale	NC906134	crag	01/07/2013
Sron Lom Glen Cassley	NC358208	crag	03/07/2013

Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
Torrish Burn Kildonan	NC969187	ravine birch wood	05/07/2013
Ben Horn E crags	NC810062	conglomerate	06/07/2013
Ben Horn S crags	NC811062	conglomerate	06/07/2013
Meall an Fheur Loch	NC362316	crags	08/07/2013
Meall an Fheur Loch	NC359310	summit heath	08/07/2013
Meall an Fheur Loch	NC360318	summit heath	08/07/2013
Coill' an Tosgaire Oykel	NC340051	riverbank	09/07/2013
Ben Tarvie	NH750963	crags	11/07/2013
Beinn an Eoin summit	NC388082	summit heath	28/06/2014
Allt an Tireidh	NC443314	rocky stream	26/06/2014
Craggie Bridge	NC913192	rocky stream	20/06/2015
The Mound Crags	NH762983	crags	12/05/2015
Old Town Rock Strath Brora	NC854089	crags	15/05/2015
Beinn a' Mhadaidh summit	NC769414	rocks	18/06/2015

NVC: H 6, 10, 14, 15, 17, 18, 21; CG 10, 12-14; U 7, 10, 16, 17; W 10, 12, 16, 24; MC 9

Solidago canadensis L. *Canadian Goldenrod*

• h 8

Solidago altissima L.

A rampantly invasive garden plant, notoriously greedy as a coloniser and seeder, soon outgrows its welcome in the herbaceous border. Rhizomes are dug up in large quantities and thrown out onto waste ground and found growing wherever garden waste and compost are thrown out. Forms large monospecific stands on waste ground by railways and on derelict industrial land in towns. It occurs in every village, and sometimes a long way from houses, especially on remote unadopted lanes where fly-tipping occurs. Host to the black aphid *Uroleucon solidaginis*. Told from *S. gigantea* by its stems which are pubescent in the top half, and leaves which have scabrid pubescence on the upper surface.

Dornoch River Street	NH798895	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Wester Drumliah	NH607934	hamlet	09/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Cassley Drive Roschall	NC470021	bungalows	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Camore Wood	NH771894	mature pines	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Rosehall	NC470022	village	09/07/2013

Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Solidago gigantea Aiton *Early Goldenrod*

Solidago gigantea subsp. **serotina** (O. Kuntze) McNeill

• h 8

Solidago serotina Aiton, non Retz.

Aster latissimifolius Kuntze var. *serotinus* Kuntze

Railway banks, roadsides and waste ground, in small clumps. Told from the much commoner *S. canadensis* by its completely glabrous upper stems, and leaves that are hairless except on the veins beneath. The upper stems have the smooth jizz of ivory.

Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012

Aster L. *Michaelmas-daisies*

These were all recorded as *A. novi-belgii* in the past. In fact, this is one of the least common of the garden escapes. In order of abundance, the vc.107 plants are *A. x salignus*, *A. lanceolatus*, *A. x versicolor* and *A. novi-belgii* then *A. novae-angliae*. The key feature is the shape, relative size, and degree of appressedness of the involucre bracts (phyllaries). Are they widest below the middle and neatly appressed (as in the common *A. x salignus*), or are they widest at or above the middle and spreading untidily (as in *A. novi-belgii*)? Another important point is the extent to which the leaf base clasps the stem: is the clasping conspicuous (as in *A. x versicolor*) or is the leaf base definitively non-clasping (as in *A. lanceolatus*). The most popular garden plant these days is the short-stemmed *A. x frikartii* 'Mönch' but this is not naturalised and is seldom found as an outcast. Other details are given separately for each taxon. The hunting season for these plants is September to November, peak activity time for alien plant enthusiasts.

Aster novae-angliae L. *Hairy Michaelmas-daisy*

• h 8

Roadsides and waste ground, temporarily established, but rare. Upper parts of plant with abundant long patent hairs; glandular hairs on the involucre. No longer common as a garden plant.

Struie Road Dornoch	NH800895	suburbia	11/09/2012
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[**Aster laevis** L. *Glaucous Michaelmas Daisy*]

• h 8

Rough waste ground. Short plants (less than 1m tall) with the leaves are distinctly glaucous on the upper side.

Recorded from Easternness and the Moray coast.

[**Aster puniceus** L. *Red-stalk Aster*]

• h 8

The stem and leaves are rough (hispid) and the involucre very leafy.

Recorded from Easternness and the Moray coast.

[**Aster x versicolor** Willd. *Late Michaelmas-daisy* = **A. laevis** x **A. novi-belgii**] • h 8
 Aster x laevigatus auct., non Lam.
 Aster novi-belgii L. subsp. laevigatus auct., non (Lam.) Thell.

Rare casual of waste ground. Tall plants (up to 2m), with relatively broad, short stem leaves (less than 5 times as long as wide) with conspicuously clasping leaf bases, and outer phyllaries much shorter (50-75%) than the inner ones. The bracts have wide white borders from about ¼ of the length below the tip, leaving a narrow green strip down the centre of the base of the bract.

Recorded from Easternness and the Moray coast.

Aster novi-belgii L. *Confused Michaelmas-daisy* • h 8
 Aster longifolius auct., non Lam.
 Aster floribundus auct., ? an Willd.
 Aster brumalis Nees, nom. illegit.
 Aster novi-belgii L. subsp. floribundus (Willd.) Thell.

Found as a garden escape in waste places in small quantity. Stem leaves narrowly clasping, outer phyllaries widest at or just above the middle, about same length as inner ones, and not neatly appressed to the capitulum.

Aster x salignus Willd. *Common Michaelmas-daisy* = **A. novi-belgii** x **A. lanceolatus** • h 8
 Aster x lanceolatus auct., non Willd.
 Aster x longifolius sensu Clapham et auct., non Lam.

Easily the commonest naturalized Michaelmas daisy in Britain (Stace, 1997). This is the conspicuous railway-side taxon. Almost never seen in gardens these days, so it is evidently long-persistent as an outcast. Like *A. novi-belgii* but the outer phyllaries are widest *below* the middle, and are rather neatly appressed to the capitulum (not spreading or recurved).

Tomich Burn Lairg	NC596055	15/07/1997	M.E. Murray det. P. Yeo
Lairg Loch Side	NC580069	suburbia	10/04/2010
Rhian Breck	NC599048	hamlet	13/05/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Opposite Achnagart	NH540980	roadside	12/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
West Merkland	NC384329	hamlet	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Achrimsdale	NC909067	hamlet	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012

Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
Loch Front Lairg	NC581623	loch shore	02/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Deans Park Dornoch	NH792895	soil piles	11/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

Aster tripolium L. *Sea Aster*

h 5

Salt marshes and damp coastal habitats. Occasional but locally frequent. It also grows in the tidal reaches of the Kyle of Sutherland as part of the brackish swamp community that supports Estuarine Sedge (*Carex recta*, a Red Data Book species), which is one of Scotland's rarest plants.

ND01 NH69 NH78 NH79 NH88 NH89

Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Kyleside Walk Bonar Bridge	NH610913	tidal riverbank	12/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
Carnegie Golf Course W	NH727873	salt marsh	10/05/2011
Dornoch Common Good	NH794882	salt marsh	09/05/2011
Balblair saltmarsh Loch Fleet	NH804973	salt marsh	08/05/2011
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Woodburn	NH525991	marsh	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Dornoch Links W	NH780880	salt marsh	14/07/2011
Dornoch Links E	NH790880	salt marsh	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Stream Saltmarsh	NH806888	salt marsh	20/05/2012
Skibo shore	NH726874	salt marsh	16/05/2012
Dornoch Common Good	NH804881	salt marsh	29/06/2014
Newton Point	NH713877	shingle beach	24/06/2014
Dornoch Common Good	NH802874	salt marsh	11/06/2015
Dornoch Common Good	NH800878	salt marsh	11/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

NVC: SM 6-20, 24-26, 28; MC 1; OV 25

Felicia amelloides (L.) Voss. *Blue Marguerite*

● h 5

A hanging basket and conservatory flower, grown for late season colour. Shrubby plants usually treated as annuals. Rare as a self-sown escape. Told from *F. bergeriana* by its glabrous (not hairy) fruits.

Dunrobin Castle	NC851008	parkland	11/07/2010
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Erigeron glaucus Ker Gawl. *Seaside Daisy*

● h 5

A very common garden plant grown in rockeries and on walls. It is occasional as a garden outcast but is seldom self-sown outside gardens. This is the common perennial 'daisy' with purple ligules, dull yellow centres, and fleshy, grey-green leaves. The commonest commercial cultivars are 'Charity' and 'Elstead Pink'.

East Helmsdale	ND031155	suburbia	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Doll	NC888028	hamlet	10/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
North Brora	NC909044	bungalows	19/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

Erigeron karvinskianus DC. *Mexican Fleabane*

● ch 7

Erigeron mucronatus DC.

This common rockery and garden wall plant is locally naturalized on brick and stonework, but never found far away from houses; often long persistent on old walls and bridges. Very rare in northern Scotland, but widely grown and likely soon to begin self-sowing.

Embo Street Hilton	NH800913	hamlet	10/07/2011
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Conyza L.

This genus is spreading rapidly northwards in Britain, and we should try to document the arrival of the species in lowland and coastal habitats in vc. 107 over the coming years.

The four alien *Conyza* species are readily distinguished in the field:

1. Involucral bracts conspicuously hairy 2
1. Involucral bracts all but hairless 3

2. Plants olive green, to 2m tall, broad-leaved, with barrel-shaped capitulae
..... **C. sumatrensis**
2. Plants blue-grey, to 1m tall, narrow-leaved, with onion-shaped capitulae
with purple tips to bracts **C. bonariensis**

3. Hairs on leaf margins patent, plant yellow-green**C. canadensis**
 3. Hairs on leaf margins bent forward, plant dark green with red-streaked,
 bristly stems **C. floribunda**

[*Conyza canadensis* (L.) Cronquist *Canadian Fleabane*] • th 8
Erigeron canadensis L.

Waste ground, railway ballast and gravel pits. This is a dull, slender, yellow-green plant with hairless involucre bracts and hairs spreading at right angles to the leaf margins.

NVC: OV 7,19,42

Recorded from Easternness and the Moray coast.

[*Conyza sumatrensis* (Retz.) E. Walker *Guernsey Fleabane*] • th 8
Erigeron sumatrensis Retz.
Erigeron bonariensis auct., non L.
Conyza albida Willd. ex Sprengel
Conyza bonariensis auct., non (L.) Cronq.

Widespread and locally abundant in southern England. This is a dull, olive green plant with hairy involucre bracts. Usually a single stem (not branched from the base), with the flowering branches originating from the top third of the stem (sometimes as low down as half-way) to form a diamond-shaped inflorescence. One of the most recent additions to the naturalised British flora.

Recorded from just north of Edinburgh before 2009.

[*Conyza floribunda* Kunth *Bilbao Fleabane*] • th 8
Conyza bilbaoana J. Remy
Conyza sumatrensis (Retz.) E. Walker var. *floribunda* (Kunth) J. Marshall

This is a shiny, dark green plant with hairless involucre bracts. It has the stature of *C. sumatrensis* but with small hairless involucre bracts reminiscent of *C. canadensis*. It has stout, red-streaked, densely long-hispid stems that are often branched from the base (10 flowering stems is not uncommon) bearing round-topped cymes of numerous tiny flower-heads. The leaves are dark, somewhat glossy-green (rather than matt, olive-green in *C. sumatrensis*) and the leaf margins have bent, forward pointing hairs (like *C. sumatrensis* but unlike *C. canadensis* which has straight, spreading hairs on the leaf margin). The marginal teeth towards the base of the leaf are enlarged into forward-pointing lobes, 5-8mm long and 2mm wide. Towards the base of the leaf the under-surface of the midrib bears long, 8-10-segmented transparent hairs. The pale, yellowish-green flower heads are small (4mm long and 3mm wide) and are held in terminal groups of 3-5 on long slender inflorescence branches. The outer bracts are about half the length of the involucre. The achenes have sparse, spiky hairs, especially towards the top. First described from Southampton in 1992.

There is a pre-2009 record from the Moray coast.

[*Callistephus chinensis* (L.) Nees *China Aster*] • th 6

A garden outcast on waste ground.

Recorded from Easternness and the Moray coast.

Olearia macrodonta Baker *New Zealand Holly*

• m 6



A coarse seaside hedging plant, often used as a garden wind-break with *Griselinia*, occasionally self seeding.

Brora	NC910041	suburbia	11/07/2010
Duke Street Golspie	NC839002	suburbia	06/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014

Bellis perennis L. *Daisy*

hr 3

Fields, lawns, grasslands, dunes, roadsides and waste ground; common and widely distributed, but less frequent on very acid soils. Escaped or persistent garden cultivars with double or semi-double flowers are encountered occasionally.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 1-14; MG 4-8, 11; U 4; OV 4,21-23; SD 8, 9, 14,16,17; MC 5, 9-11

Tanacetum parthenium (L.) Sch.Bip. *Feverfew*

○ h 7

Matricaria parthenium L.

Chrysanthemum parthenium (L.) Bernh.

Hedge-banks, walls, paving cracks, gardens and waste places; widespread but frequent only near buildings. Occasional in the lowlands.

NC50 NC70 NC80 NC90 NC91 ND01 NH68 NH69 NH78 NH79 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora SW	NC901038	waste ground	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Duke Street Golspie	NC838001	stonework	09/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
North Brae Brora	NC906040	terrace	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Stafford Street Helmsdale	ND029154	waste ground	09/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012

Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Helmsdale	ND026154	village	05/05/2013
Strath Helmsdale	ND022171	roadside	05/05/2013
Brora Industrial Estate	NC905041	waste ground	07/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Old Road Bridge Brora	NC906039	stonework	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
High Street Lairg	NC584063	village	02/07/2013
Glashbuie North Brora	NC903053	derelict building	05/07/2013
Brora Industrial Estate	NC905041	waste ground	07/07/2013
Badnellan	NC885045	hamlet	10/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

NVC: OV 42

Tanacetum parthenium doubles and other cultivars *White Feverfew*

• h 7

The commonest cultivars found as escapes are the all-white pompom Feverfews 'Plenum' and 'Snowball' (the latter is bigger and more spherical). The semi-double 'White Bonnet' is the popular bedding plant. Occasional on waste ground in towns.

Castle Hotel Dornoch	NH797895	garden path	09/07/2011
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Spinningdale	NH677896	hamlet	24/06/2014

Tanacetum vulgare L. *Tansy*

h 7

Chrysanthemum vulgare (L.) Bernh., non (Lam.) Gaterau

Roadsides, hedges, and river-banks, heathy fields, margins of rivers, railway banks and grassy waste ground, in small quantity in the lowlands. Typically near houses. Uncommon in the lowlands.

NC50 NC70 NC74 NC80 NC90 ND01 NH78

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Lonemore	NH764884	hamlet	11/07/2010
Rosehall	NC470021	village	12/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Castle Hotel Dornoch	NH797895	garden path	09/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Corrieinloch Hydro	NC398253	hamlet	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Ross Terrace Brora	NC905038	railway	01/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Lower Brora	NC908037	bungalows	11/05/2015

NVC: OV 41

[Tanacetum macrophyllum (Waldst. & Kit.) Sch. Bip. *Rayed Tansy*]

• h 7

An uncommon garden plant, very rare as an outcast.

Recorded from the Moray coast.

Artemisia vulgaris L. *Mugwort*

○ hp 7

Fields and waste places near the sea. Local and rare at low altitudes.

NC80 ND01 NH78 NH89

The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
sea cliffs N of Helmsdale	ND035153	soft sea cliff	17/06/2015

NVC: MG 1; OV 3,4,9,14,18,19,21,23-25

[Artemisia verlotiorum Lamotte *Chinese Mugwort*]

• hp 10

An interesting example of an alien invasion by range extension across Europe. Thoroughly, but very locally naturalised on roadsides and waste ground. Like *A. vulgaris* but rhizomatous (stand-forming),

with narrow stem pith is narrow (the white portion of the pith makes up 30% (not 80%) of the diameter). Told by the long, finger-like, untoothed lobes of its stem leaves, and by its lime-green (not blue-green) colour.

Recorded from Easternness and the Moray coast.

Artemisia absinthium L. *Wormwood* ○ h 7

Dry hedge-banks, railway banks and waste ground, in very small quantity. Local and rare.

Helmsdale ND025153 07/08/1999 BSBI

ND01

[**Artemisia norvegica** Fr. *Norwegian Mugwort*] h 7

Bare mountain tops in three sites at c.800m in Wester Ross and Easter Ross. Very local and rare. Discovered as recently as 1950.

Artemisia spp. as garden outcasts and escapes

This is a difficult group of aliens because they are so seldom in flower at the time they are found, and this makes them impossible to key out in the normal way. All of them have more or less silver leaves, but there is tremendous variation in leaf shape. Two taxa have entire upper leaves: the pot herb *A. dracuncululus* has green leaves, and the ground cover perennial *A. ludoviciana* has silver leaves. Of the taxa with divided leaves, one is a carpeting, ground-cover perennial (*A. stelleriana*) and the rest are more or less upright. Of the upright ones, most have silvery-white leaves but *A. abrotanum* is green (albeit sage-green). The most frequent (and hardy) of the filigree-leaved silver plants is *A.* 'Powis Castle', the one with the finest leaves is *A. alba* 'Canescens', and the most woody is *A. abrotanum*. For flowering specimens, there is a key to 53 garden taxa of *Artemisia* on p. 243 of Vol 1 of the RHS Dictionary of Gardening.

Artemisia abrotanum L. *Southernwood* ● np 7

An aromatic shrub with green rather than silver leaves.

Shinness Lodge	NC539141	former garden	11/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Artemisia stelleriana Besser *Hoary Mugwort* ● h 7

Known to gardeners as *Dusty Miller*, it produces a dense carpet of broad, deeply fingered, grey-white leaves that are more reliably hardy than *Senecio cineraria*. Occasional garden plant grown at the front of the herbaceous border or to soften the edges of paths. The under leaves are more densely white-woolly (white-lanate) than in *A. ludoviciana* (white-tomentose, undivided leaves).

Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Skibo Castle S front	NH737890	parkland	11/07/2013

Artemisia ludoviciana Nutt. *Western Mugwort* • h 7

A rhizomatous clump forming perennial with willow-like, downy silvery white entire leaves (not to be confused with *A. stelleriana*, which has divided leaves; see above).

Kinbrace	NC863319	hamlet	11/05/2011
Dunrobin Castle formal garden	NC851008	parkland	17/05/2012

Artemisia ‘Powis Castle’ • n 7

This is the *A. arborescens* of gardens, and has the most finely divided leaves of the silver-leaved shrubby mugworts. Common in gardens, but rare as an outcast.

Loth Station Cottage	NC957100	hamlet	18/06/2015
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Santolina chamaecyparissus L. *Lavender-cotton* • n 7

Commonly grown with other grey-foliaged plants in Mediterranean beds; occasionally found as an outcast on waste ground and rarely as self-sown plants in paving cracks and on walls.

Brora	NC910041	suburbia	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Little Ferry	NH805956	hamlet	12/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Achillea ptarmica L. *Sneezewort* h 7

Damp meadows and ditches. Widespread and common. The double-flowered cultivars ‘The Pearl’ and ‘Boule de Neige’ are found occasionally as garden escapes.

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71
NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH49 NH59 NH68
NH69 NH78 NH79 NH89

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Loch Migdale N shore	NH632916	loch side	10/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Maikle Kyle of Sutherland	NH595936	tidal riverbank	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Kildonan Burn Falls	NC911216	stream	19/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Achneluachrach	NC679098	farmstead	22/06/2011
Achnahuie	NC716072	ditch	22/06/2011
Birichen	NH765923	roadside	09/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Craggie road junction	NC744075	roadside	10/09/2012
Alltnacaorach Loch Shin	NC506181	wet heath	08/09/2012
PROSAMO sites Sallachy	NC560065	birch wood	02/07/2013
Torrish Burn Kildonan	NC969187	ravine birch wood	05/07/2013
Braegrudie Strath Brora	NC717105	riverbank	07/07/2013
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
West Rearquhar	NH732931	heathy bank	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Creagandamp	NC733170	streamside crag	10/07/2013
etc.			

NVC: M 22-27, 38; MG 8, 9; U 6

Achillea millefolium L. *Yarrow*

chh 6

Woods, heaths, grasslands, dunes and open ground, roadsides waste ground in towns; very common and generally distributed.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: W 22-24; M 38; H 7; MG 1-9; CG 5-12; U 4, 6, 10, 13, 14, 20; SD 2, 7-12, 18; MC 5, 8-12,
OV 3, 5, 10, 19, 22-27, 33, 37, 42

Achillea filipendulina Lam. *Golden Yarrow*

• hp 5

Biblical Gardens Golspie	NC837001	garden	05/07/2013
Ospisdale House	NH713897	parkland	11/07/2013

Anthemis punctata subsp. **cupaniana** (Tod. ex Nyman) R. Fern.

• hp 5

Anthemis cupaniana Tod. ex Nyman

A common rockery and wall perennial with yellow-eyed, white daisy flowers. Occasionally escaping on stony waste ground and ruined walls.

Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Portgower	ND013137	roadside	08/05/2011
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Hilton of Embo	NH804915	hamlet	04/07/2013
Lower Brora	NC908037	bungalows	11/05/2015
Golspie S	NC824997	village	09/05/2015
Overscaig Hotel	NC417232	hamlet	13/05/2015

[Anthemis arvensis L. *Corn Chamomile*]

○ th 6

Dry arable fields. The leaves are sweet-scented when crushed. The receptacular scales have a single slender tip and the achenes are strongly ribbed. It might be confused with *Matricaria recutita* or *Tripleurospermum inodorum* but these have no receptacular scales, and much finer, greener leaf segments.

Note that the plant sold as this in wildflower mixtures is most often *Anthemis austriaca* which has neater, greyer leaves and flattened, two-winged achenes.

NVC: OV 3

Recorded from Easternness and the Moray coast.

[Anthemis cotula L. *Stinking Chamomile*]

○ th 7

Cultivated fields and waste places.

NVC: OV 1,8,10,15,19,33

Recorded from Easternness and the Moray coast.

Anthemis tinctoria L. *Yellow Chamomile*

• h 7

Waste ground. Very local and rare. More frequent as a garden plant and occasionally escaping.

Invershin	15/07/1890	E.S. Marshall & F.J. Hanbury
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ND01 NH59

Biblical Gardens Golspie	NC837001	garden	07/09/2012
Ospisdale House	NH713897	parkland	11/07/2013

Glebionis segetum (L.) Fourr. *Corn Marigold* ○ th 6
Chrysanthemum segetum L.
Xanthophthalmun segetum (L.) Sch. Bip.

Arable fields and disturbed ground on moderately acid soils. Locally frequent in the lowlands. This is a classic weed of the machir in the Western Isles, but much less common with us. More likely to be seen nowadays as part of a commercial wildflower mix, with *Anthemis austriaca*, *Centaurea cyanus* and *Agrostemma githago*.

NC50 NC51 NC60 NC70 NC80 NC84 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012

NVC: OV 1,4,9

[Glebionis coronaria L. *Crown Daisy*] ● th 6
Chrysanthemum coronarium L.

Very rare casual or garden escape.

Recorded from the Moray coast.

Euryops pectinatus (L.) Cass. ● nm 6

A non-hardy pot plant under most circumstances with us, but rarely persisting as an outcast. This is the yellow-flowered bushy plant.

Lothmore Church	NC971113	churchyard	11/07/2010
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Leucanthemum vulgare Lam. *Oxeye Daisy* h 6
Chrysanthemum leucanthemum L.

Roadside verges, grass fields, railway banks, dunes, churchyards, old brick walls and disturbed ground; abundant and generally distributed in the lowlands.

NC30 NC40 NC42 NC50 NC60 NC61 NC63 NC70 NC74 NC80 NC82 NC83 NC84 NC90 NC91
 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Dornoch Academy	NH789899	roadside	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Knock Craggie	NC328054	roadside	12/07/2010
Rosehall	NC470021	village	12/07/2010

Maikle Kyle of Sutherland	NH595936	roadside	12/07/2010
Drumlian Road Bonar Bridge	NH606924	council houses	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Old Manse of Creich	NH636892	cemetery	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
The Mound sea wall	NH776982	sea wall	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Badnellan North Brora	NC883043	hamlet	10/09/2012
Killin	NC855070	hamlet	10/09/2012
Glenelg	NC737050	hamlet	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
etc.			

NVC: H 6, 7; CG 2-6; MG 1, 3, 4, 8, 9; OV 10,23,25,41

Leucanthemum x superbum (Bergmans ex J.W. Ingram) D.H. Kent *Shasta Daisy* • h 6
 = **L. lacustre x L. maximum**

A popular cottage garden plant, long-persistent garden outcast, occasional on roadsides, waste ground and hedge-banks in most of the villages and towns. Never far from houses, and not naturalised.

ND01

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Camore	NH778903	council houses	12/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
N Brora	NC904051	bungalows	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Embo	NH817928	village	23/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Badanloch Lodge	NC798333	hamlet	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012

Fountain Road Golspie	NC831000	suburbia	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Embo	NH816928	village	08/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
West Langwell	NC698088	hamlet	13/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Little Ferry	NH805956	hamlet	12/06/2015

Dendranthema x grandiflorum Group Kitam. *Florist's Chrysanthemums*

• h 8

Common on tips and rubbish dumps in churchyards as discarded cut plants, but never seen as naturalised garden escapes.

Matricaria chamomilla L. *Scented Mayweed*

○ th 6 †

Matricaria recutita L.

Chamomilla recutita (L.) Rauschert

Matricaria chamomilla L. var. *recutita* (L.) Grierson

Cultivated fields, waste ground, gardens, etc. This is our only scented mayweed; other genera like *Anthemis* and *Cotula* are all much rarer and more local in their distributions. Told from them by the absence of receptacular scales. Told from *Tripleurospermum inodorum* by the distinctive smell of the crushed flower heads and by the hollow (not solid) receptacle. It is a smaller, more yellowish-green, earlier-flowering plant. On the railway at Golspie in 1888. Always very local and rare in vc. 107. No recent records.

NH89

Matricaria discoidea DC. *Pineappleweed*

• th 6

Matricaria matricarioides (Less.) Porter, pro parte, nom. illegit.

Chamomilla suaveolens (Pursh) Rydb.

Gateways, farmyards, disturbed ground, paths, arable fields and garden. Locally frequent and resistant to trampling. The plant was first recorded in Britain in 1871. It is probably a native of north-east Asia, but it may well have been introduced from the western USA where it is extensively naturalised. There were several records in England, Scotland and Ireland prior to 1900 but it was during the next 25 years that its spectacular invasion occurred. The seeds are dispersed in mud, and it was the atrocious muddy state of Britain's roads at the dawn of the era of mass motoring that is thought to have been responsible. Before the widespread introduction of tarmac in the 1920s the roads were mud baths in

winter and dustbowls in summer; ideal conditions for the growth and seed dissemination of Pineappleweed. The extraordinarily flexibility of its stems means that the plant highly tolerant of crushing and trampling.

NC30 NC31 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC63 NC70 NC73 NC74 NC80
NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Longuish Road Junction	NH644919	waste ground	10/07/2010
Strathsteven Cottage	NC878014	roadside	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Old Manse of Creich	NH636892	cemetery	12/07/2010
Camore	NH778903	council houses	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
North Brae Brora	NC906040	terrace	08/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Achentoul	NC879332	inbye	19/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kirkton railway crossing	NH798985	railway	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
W of Mound Rock	NH767993	poached ground	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Davoch Pittentrail	NC723016	garden	10/09/2012
Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
R Cassley Rosehall Bridge	NC471022	riverbank	08/09/2012

Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
sea front Golspie	NH832999	sea wall	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
A9 S of Brora	NC901036	roadside	01/07/2013
Maintenance Yard RDGC	NH802893	trailer	02/07/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Embo House	NH803920	arable	04/07/2013
Cyderhall Farm Cuthill	NH764892	arable	04/07/2013
East Lodge Skibo Castle	NH749890	lane	04/07/2013
Glashbuie North Brora	NC903053	derelict building	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Academy Street Brora	NC902044	dry banks	07/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Sciberscross Lodge	NC775100	parkland	10/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
N of Braemore Grudie Burn	NC548031	inbye grassland	24/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Badintagairt Glen Cassley	NC428101	croft	28/06/2014
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
Dalchalm	NC911059	hamlet	19/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Kildonan Station Cottage	NC901216	disturbed ground	17/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015

NVC: MG 7; SD 3; OV 1,3,4,7-10,12-14,16,18,20-23,28,33; S 23

Tripleurospermum maritimum (L.) W.D.J. Koch *Sea Mayweed*
Matricaria maritima L.

h 7

Sand, shingle, rocks, walls, cliffs and waste ground by the sea. The leaf segments are succulent and are not bristle-tipped. Look at the shape of the oil glands on the achene: they are coffin-shaped (distinctly elongated rectangles, not orbicular to angular). Occasional. Take care, too, because in vc. 107 the commonest species on the beach is *Tripleurospermum inodorum* (below).

NC90 NC91 ND01 NH78

The Mound sea wall	NH776982	sea wall	11/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Brora S beach	NC909034	shingle beach	09/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
sea front Golspie	NH832998	shingle beach	07/09/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Common Good	NH806873	sandy beach	30/06/2013
Coul Links	NH805953	shingle beach	04/07/2013
Golspie Sea Front N end	NH833998	promenade	06/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
Newton Point	NH711876	shingle beach	11/07/2013
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015

NVC: SM 28; SD 1-4, 10; MC 1-3, 5, 6, 8

Tripleurospermum inodorum (L.) Sch.Bip. *Scentless Mayweed*

o th 7

Matricaria inodora L.

Matricaria perforata Mérat

Matricaria maritima L. subsp. *inodora* (L.) Soó

Tripleurospermum maritimum (L.) Koch subsp. *inodorum* (L.) N. Hylander ex Vaar.

Arable fields, waysides, and waste places. By far the commonest non-scented mayweed (cf. *Matricaria chamomilla*) both in arable fields and on waste ground. The oil glands on the achene are circular (orbicular to angular) not coffin-shaped. The receptacle is solid (not hollow) and there are no receptacular scales. It is a larger, darker green and later-flowering plant than *M. chamomilla*. Locally frequent in the lowlands and on the beach, where it is often more frequent than *T. maritimum*.

NC40 NC50 NC70 NC91 NH88

Carnegie Golf Course	NH731871	shingle beach	10/07/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Dunrobin Castle beach	NC849004	shingle beach	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Camore	NH778903	council houses	12/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Rogart Station	NC724019	railway	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kirkton railway crossing	NH798985	railway	10/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Badnellan North Brora	NC883043	hamlet	10/09/2012
North Tannachy	NC750083	hamlet	10/09/2012
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012

Strathnaver Street Helmsdale ND028154	waste ground	09/09/2012
Sutherland Street Helmsdale ND028153	walled gardens	09/09/2012
East Shore Street Helmsdale ND029152	village	07/09/2012
Muirfield Drive Brora NC906043	council houses	07/09/2012
Fountain Road Golspie NC831000	suburbia	07/09/2012
sea front Golspie NH832998	shingle beach	07/09/2012
Gilmour Crescent Bonar NH610917	council houses	06/09/2012
Davidson Terrace Lairg NC588062	council houses	06/09/2012
Embo House NH803920	arable	04/07/2013
Stafford Road Dornoch NH801899	council houses	10/07/2013
Ospisdale NH712897	hamlet	11/07/2013
Dornoch Gravel Pit (active) NH785902	gravel pit	12/07/2013

NVC: OV 1, 3-5, 7-10, 13-16, 19, 33

Cotula coronopifolia L. *Buttonweed*

• h 7



Cotula coronopifolia. The Dornoch colony (see below) in July 2011. Aileen Meek.

Wet saline places. First vice county record during the BSBI visit to East Sutherland in July 2011.



Habitat of *Cotula coronopifolia*. Locally dominant on the edge of a saline pool on Dornoch Common Good Lands in July 2011 looking inland from the edge of the salt marsh. Aileen Meek.

N of Dornoch Point	NH803882	salt marsh	14/07/2011 BSBI group
Dornoch Common Good	NH805882	salt marsh	29/06/2014
Dornoch Common Good	NH804874	salt marsh	11/06/2015

Also recorded from the Moray coast.

[*Cotula squalida* (Hook.f.) Hook.f. *Leptinella*] • h 7

A lawn weed, spreading in Scotland. Recorded from Easterness and the Moray coast.

Senecio cineraria DC. *Silver Ragwort* • ch 6
 Senecio bicolor (Willd.) Tod.
 Senecio bicolor (Willd.) Tod. subsp. cineraria (DC.) Chater

In virtually every window box, half-barrel and hanging basket in the county. Also used as a bedding and edging plant. It is by far the commonest silver leaved garden escape, and can be found in villages and towns throughout the region on walls, pavement cracks, track sides and open waste ground. Never seen far from houses, and not naturalised in vc. 107.

Biblical Gardens Golspie	NC837001	park	11/04/2010
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Struie Road Dornoch	NH800895	suburbia	11/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Castle Street Dornoch	NH794897	village	08/05/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Lairg	NC585063	village	10/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

[**Senecio x albescens** Burb. & Colgan = **S. cineraria x S. jacobaea**]

Recorded from Easternness and the Moray coast.

[**Senecio inaequidens** DC. *Narrow-leaved Ragwort*]

• hs 7

Senecio lautus auct., non Sol. ex Willd.

There has been rapid range expansion of this South African plant in Germany and France since 1980, and it has become a serious pest of pastures in South America. It is frequent in East London and may well spread in Britain in due course, but it has not yet done so (to 2006). It is known by its very narrow, dark green, long, willow-like leaves which are sparsely toothed rather than lobed, and by its broad, rather delicate flower heads with long golden ray florets. In leaf it looks like a green version of *Conyza bonariensis*, and in flower it could be mistaken for a narrow-leaved *Senecio squalidus*.

[**Senecio fluviatilis** Wallr. *Broad-leaved Ragwort*]

• hel 7

Senecio sarracenicus sensu L.(1754) et auct., non L.(1753)

This is the big, entire leaved ragwort that is quite commonly naturalized in damp grass in Scotland and Northern England. It is uncommon nowadays, presumably because it is less often grown as a garden plant and hence less often thrown out.

Recorded from Easternness and the Moray coast.

Senecio jacobaea L. *Common Ragwort*

hs 6

Pastures, dunes, roadsides, heaths, and grassy waste places; locally abundant and generally distributed, especially in overgrazed pastures.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC62 NC63 NC70 NC71
NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79
NH88 NH89

NVC: CG 2-10, 13; MG 1, 2, 3, 5, 9; OV 10,19-21,25,27; S 23; U 1,20; W 10,23,24; SD 1, 4, 6-19;
MC 4, 5, 9, 11

Senecio x ostefeldii Druce = **S. jacobaea x S. aquaticus**

With the parents. Uncommon.

Altassmore

15/07/1967

U.K. Duncan det. RBGE

NC40 NC91 ND01

Senecio aquaticus Hill *Marsh Ragwort*

hs 7

Senecio erraticus sensu Drabble et auct., non Bertol.

Marshes, ditches, stream banks, water meadows, damp roadsides; rather common in low-lying districts.

NC30 NC31 NC40 NC50 NC51 NC60 NC63 NC70 NC71 NC74 NC80 NC81 NC82 NC83 NC84
NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Clashmore	NH747895	village	10/07/2010
Loch Migdale N shore	NH632916	loch side	10/07/2010
Culmaily Burn	NH812978	stream	11/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Opposite Carbisdale Castle	NH576958	riverbank	12/07/2010
Maikle Kyle of Sutherland	NH595936	tidal riverbank	12/07/2010
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Lothmore gravel pit	NC970106	pond	12/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Birichen	NH763922	roadside	10/05/2011
Londornach	NH751938	hamlet	09/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC840414	flush	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
R. Oykel N Bank Lubcro	NC359018	riverbank	19/05/2012
Marian's Rock Quarry	NC742013	quarry bottom	18/05/2012
Loch Front Lairg	NC581062	loch shore	02/07/2013

R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Caplich Estate Gate	NC359020	forest road	09/07/2013
Coill' an Tosgaire Oykel	NC340051	riverbank	09/07/2013
Doll Ford Bridge	NC870044	riverbank	11/05/2015
Loch Buidhe inflow delta	NH652983	loch shore	25/06/2014

NVC: M 23,24,27; MG 9,10

[Senecio doronicum (L.) L. *Chamois Ragwort*] • h 5

River banks. Very rare.

Recorded from Moray.

[Senecio smithii DC. *Magellan Ragwort*] • h 5

A white-flowered ragwort. Damp grass and by streams.

Recorded from Caithness.

Senecio squalidus L. *Oxford Ragwort* • h 5
Senecio rupestris Waldst. & Kit.

Railway-banks and ballast, dry waste ground, roadsides and occasionally on walls. This native of Sicily originated on the volcanic ash of Mount Etna, which pre-adapted it to a life on British railway ballast and London bomb sites. The plant was grown in Oxford Botanic Garden in the eighteenth century and became naturalized on the old limestone walls. Dillenius sent a specimen from this population to Linnaeus for naming (see the L., above). Very local and rare with us, but not seen recently.

NC80 (found at Doll Ford NC871044 in 1992 by Morven Murray).

NVC: OV 10,19,22,23

Senecio vulgaris L. *Groundsel* th 1
Senecio vulgaris L. subsp. *denticulatus* (Mueller) Sell

Cultivated ground, disturbed places, shingle beaches, pavements, walls, railways and waste places. Widespread and abundant.

NC40 NC50 NC60 NC63 NC70 NC73 NC74 NC80 NC82 NC83 NC84 NC90 NC91 NC92 ND01
 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: OV 1,3,4,7-10,13,14,16,18-25,28,33,41,42; U 1

[Senecio x helwingii Beger ex Hegi = *S. vernalis* x *S. vulgaris*]

Recorded from the Moray coast.

[Senecio vernalis Waldst. & Kit. *Eastern Groundsel*]

• th 7

Increasing rapidly in continental Europe, this species is still rare with us. Told from *S. squalidus* by its webby-pubescent (not glabrous) leaves with their short lateral lobes (the leaves are often very like those of *S. vulgaris*). The ray florets are the same size (8-10mm) as in *S. squalidus*.

Recorded from Easternness and the Moray coast.

Senecio sylvaticus L. *Heath Groundsel*

th 7

Heaths, commons, wood margins, and bare ground on dry acid soils. Locally common in the east. Apparently possessed of a very long-lived seed bank and springing up in abundance following soil disturbance or tree-felling.

NC40 NC70 NC80 NC81 NC82 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Carnegie Golf Course	NH733872	gorse scrub	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Linsidmore	NH545991	hamlet	12/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
R Brora in Brora	NC901039	riverbank	08/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Drumliah	NH608931	ruined croft	09/07/2011
Mound Rock crags	NH780985	crags	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Inveran	NH560970	composite	12/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Doll	NC876034	hamlet	10/09/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Davochfin	NH778889	hamlet	04/07/2013
Carn Liath	NC867013	lane	05/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Dalchalm	NC909054	gravel	19/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

NVC: OV 11 (clearly under-studied)

Senecio viscosus L. *Sticky Groundsel*

• th 7

Seaside shingle and sand, railway ballast, cinder tracks and compacted waste ground in towns. It has all the behavioural traits of an alien species with us (ephemeralness, restriction to bare and disturbed ground, proximity to human activity), including an indescribable spatial distribution. The only place that I know where this species looks like a native element of the flora is on dry river gravels in the Cheviot Hills in Northumberland (vc.68), where it coexists with, but is much more abundant than, *S. sylvaticus*. Told from *S. sylvaticus* by its spreading (not appressed) lower bracts and glabrous (not hairy) achenes. In fruit, the black achenes contrast starkly with the snowy white pappus.

Strathstevan NC880013 15/07/1975 J.E. Kirby

NC70 NC80 NC90 NC91 ND01 NH78 NH79 NH89

Dornoch Academy	NH789899	roadside	10/04/2010
Greenpark S of Helmsdale	ND019144	shingle beach	11/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Dunrobin Castle beach	NC849004	shingle beach	11/07/2010
Mill Way Brora	NC904040	waste ground	08/05/2011
Back Street Helmsdale	ND026153	alley	09/09/2012
Stafford Street Helmsdale	ND029154	waste ground	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Brora S beach	NC909034	shingle beach	09/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Achrimsdale	NC909067	hamlet	07/09/2012
Stafford Terrace Brora	NC904042	waste ground	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
sea front Golspie	NH832998	shingle beach	07/09/2012
Brora Industrial Estate	NC905041	waste ground	07/05/2013
Dornoch Common Good	NH806873	sandy beach	30/06/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Brora Industrial Estate	NC905041	waste ground	07/07/2013
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Little Ferry	NH805956	hamlet	14/05/2015

NVC: OV 7

Brachyglottis x jubar 'Sunshine' P.D. Sell *Shrub Ragwort*

• n 6

Senecio x greyii hort., non J.D. Hook.

Senecio x compactus hort., non Kirk

Brachyglottis x greyii hort., non (J.D. Hook.) R. Nordenstam

Brachyglottis x compacta hort., non (Kirk) R. Nordenstam

This is one of the commonest silver-leaved shrubs used in landscaping schemes in towns and industrial estates. It can be long persistent as a throw-out but it does not self-seed. Conspicuous in yellow flower in late June; it is pruned by purist gardeners to stop it flowering (the flowers are thought to clash with the silver foliage).

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Clashmore	NH747895	village	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
N Portgower	ND013137	roadside	08/05/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012

Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Navidale Cemetery	ND041161	banks	17/05/2012
Embo	NH817928	village	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Navidale Cemetery	ND042161	cemetery	07/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Lower Brora	NC908037	bungalows	11/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
North Brora	NC909044	bungalows	19/06/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Golf Road Brora	NC909041	suburbia	14/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Meikle Ferry	NH729870	roadside	12/05/2015
Navidale	ND037161	hamlet	14/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

[Sinacalia tangutica (Maxim.) B. Nord. *Chinese Ragwort*]
Senecio tanguticus Maxim.

• hs 6

Damp shady places. Recorded from Easternness and the Moray coast.

Ligularia ‘The Rocket’ *Leopardplant*

• hs 5

More frequently planted these days than *L. przewalskii*

Academy Street Brora	NC903044	bungalows	13/06/2015
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Ligularia przewalskii *L. Leopardplant*

• hs 5

A statuesque garden plant with deeply palmate basal leaves, standing more than 1.5m tall, with only 2 ray florets per capitulum.

Crackaig Farm	NC957107	farmstead	23/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Skibo Castle S front	NH737890	parkland	11/07/2013
Loth Station Cottage	NC957100	hamlet	18/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

Doronicum pardalianches *L. Leopard's-bane*

• hs 5

Naturalized in woods and shady places. Told from the next two hybrid taxa by the possession of long, flexuous or spreading hairs (> 1mm) on the petioles of its basal leaves, and by having more flower heads per stem (3-8 rather than 1-3). Local and rare, but occasional in neighbouring vice counties, so perhaps under-recorded.

ND01

Knockarthur	NC754066	hamlet	18/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Hilton of Embo W	NH796913	hamlet	21/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

[Doronicum x willdenowii (Rouy) A.W. Hill *Willdenow's Leopard's-bane*] ● hs 4
Doronicum plantagineum L. forma *willdenowii* Rouy

There are two common garden *Doronicums* much grown for their early spring display and occasionally found as throw-outs on waste ground. They are distinguished by their leaves: *D. x willdenowii* has less prominent leaf teeth (less than 2mm long) and rounded or truncate (not heart-shaped) leaf bases.

Doronicum x excelsum (N.E. Br.) Stace *Harpur-Crewe's Leopard's-bane* ● hs 4
Doronicum plantagineum L. var. *excelsum* N.E. Br.
Doronicum x draytonense hort.
Doronicum x hybridum hort.

D. x excelsum has more prominent leaf teeth (more than 2mm long) and a shallowly heart-shaped (cordate) leaf base. This is much the commoner of the two early-flowering hybrids as a garden escape.

Dornoch Academy	NH789899	roadside	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Pittentrail	NC726020	village	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Portgower	ND013137	roadside	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Embo	NH817928	village	08/05/2013
Dalchalm	NC909054	gravel	19/06/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Pittentrail	NC726019	village	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Lairg	NC581068	council houses	10/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Lonemore NH764884 hamlet 17/05/2015

[*Doronicum plantagineum* L. *Plantain-leaved Leopard's-bane*] • hs 6

Relic of cultivation, very rare. Told from the other *Doronicum* taxa by the fact that its basal leaves are all tapered gradually into their petioles (cuneate) rather than rounded, truncate or heart-shaped (cordate).

Recorded from Easternness and the Moray coast.

Tussilago farfara* L. *Colt's-foot grh 3

Dunes, roadsides, riversides, railway banks, damp arable fields, waste ground and woodland rides. One of our earliest spring flowers, the blooms appear before the leaves in March. Widespread and common.

NC30 NC31 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC70 NC71 NC73 NC74
NC80 NC81 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Brora SW	NC901038	waste ground	11/04/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
R Fiag enters Loch Shin	NC466203	river bank	13/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
East Clyne	NC893062	stream	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Mill Way Brora	NC904040	waste ground	08/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Hill of Ord Lairg	NC577055	plantation	15/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Portgower	ND010135	hamlet	07/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012

Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Raemore/Gruids Woods	NC558035	roadside	19/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Coille Sron Na Croiche	NC455013	pinewood	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
Innisnabioraich	NC374011	riverbank	19/05/2012
R. Oykel N Bank Lubcroy	NC359018	riverbank	19/05/2012
Embo dune slacks	NH815933	dune slacks	18/05/2012
Glen Loth	NC943118	streamside	17/05/2012
Helmsdale Station	ND023154	railway	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
Sallachy	NC549085	hamlet	06/05/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Rosehall	NC470022	village	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Gruids	NC568037	hamlet	24/06/2014
Mill Way Brora	NC905041	waste ground	27/06/2014
Achue turning	NH684894	roadside	24/06/2014
Ross Avenue Dornoch	NH792897	new housing	29/06/2014
A389 Braemore Grudie Burn	NC543026	roadside	24/06/2014
Strath Oykel	NH500995	roadside	12/05/2015
Laundry Road Lairg	NC586063	industrial	12/06/2015
Achadh nan Eun	NC625127	conifer plantation	13/05/2015
Helmsdale Station	ND023155	railway	17/06/2015
Helmsdale Station Yard	ND023155	waste ground	17/06/2015
Doll	NC881027	hamlet	11/05/2015
Ceol Mor Strath Oykel	NH557981	hamlet	12/05/2015
Allt Breac Helmsdale	NC958186	stream	17/06/2015
Navidale Stream	ND042160	stream	17/06/2015
Campbell Street Dornoch	NH791895	new housing	11/06/2015

NVC: SD 6, 7; OV 9, 10, 19, 22-24, 38

Petasites hybridus (L.) P. Gaertn., B. Mey. & Scherb. *Butterbur*

g 3

Petasites officinalis
Tussilago hybrida L.

Sides of rivers, brooks and canals and in wet places by springs; occasional but absent from large areas. This is 'Giant Rhubarb' of children's botany (although *Gunnera* is even more of a Giant, of course). Flowering before the leaves in late winter, when the rest of the riverbank is still firmly asleep. Many of the populations are male-only clones, planted long ago as a source of pollen for honey bees. Local and rare.

NH79

[Petasites japonicus (Siebold and Zucc.) Maxim. *Giant Butterbur*]

• g 2

Nardosmia japonica Siebold and Zucc.

Petasites japonicus (Siebold and Zucc.) Maxim. subsp. *giganteus* Kitam.

Big creamy white and greenish flowers protruding self-consciously from the wintry ground. The bracts are broad (> 1cm) and pale lime green. The flowers are followed by enormous, rhubarb-like leaves 80cm (sometimes reaching 1.5m) in diameter.

Recorded from Easternness and the Moray coast.

Petasites albus (L.) Gaertn. *White Butterbur* • g 2

Rough ground, waysides and woodlands. Uncommon. First recorded from Dornoch. Very common in and around Skibo Castle estate.

Garvault Hotel NC783385 15/06/1966 M. McC. Webster

NC71 NC73 NH88

Pulrossie Skibo Estate	NH725884	arable	09/05/2011
Skibo Castle N drive	NH728869	parkland	10/05/2011
Carnegie Wodland Skibo Castle	NH732892	parkland	09/05/2011
Skibo Castle N Gates	NH734896	roadside	10/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011
Loch Fleet S shore	NH772966	roadside	18/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Ospisdale	NH713898	roadside	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013

Petasites fragrans (Vill.) C. Presl *Winter Heliotrope* • g 1

Tussilago fragrans Villars

Petasites pyrenaicus (L.) G. López

Plantations, banks and roadsides near houses. Flowering in January and February; delightfully fragrant. Patch-forming and long-persistent once established.

St Gilbert Street Dornoch	NH796897	suburbia	10/04/2010
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Brora Golf Club	NC909039	suburbia	27/06/2014

Calendula officinalis L. *Pot Marigold* • th 9

A classic cottage garden plant found as an escape on rough ground and roadsides and in bare, stony places; flowering right into December.

Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Brora Harbour	NC909037	village	12/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Embo	NH817928	village	23/06/2011
Loth Station Cottage	NC959100	railway	23/06/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011

Embo Street Hilton	NH800913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Doll	NC876034	hamlet	10/09/2012
Cavaig North Brora	NC894041	hamlet	10/09/2012
Killin	NC855070	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Ruard B&B A9 Helmsdale	ND029154	disturbed ground	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Swedale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Main Street Brora	NC903391	street	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Davochfin	NH778889	hamlet	04/07/2013
Killin Loch Brora	NC855706	croft	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
North Brora	NC909044	bungalows	19/06/2015
Lower Brora	NC908037	bungalows	11/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Harbour Road Helmsdale	ND026154	village	17/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Osteospermum hybrids, usually recorded as **O. jucundum** (Phillips) Norlindh
Dimorphotheca barberae hort.

• hs 5

These are common rockery, wall and edging plants that are sometimes found as garden outcasts. They are seldom self-sown. The most characteristic cultivars are 'Whirlygig' with white spoon-shaped ray florets and purple centres, and 'Buttermilk' which is a beautiful creamy yellow with a dark 'eye'. Most of the plants seen as garden escapes, however, have pinky-purplish ray florets, which are bronzy purple on the underside.

Braefoot Portgower	ND010135	cottages	11/07/2010
Dunrobin Castle	NC851008	parkland	11/07/2010
Camore	NH778903	council houses	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Brora Golf Course	NC910039	club house	23/06/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Dunrobin Castle stone walls	NC850007	stonework	06/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Sleastary	NH643963	croft	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

[**Ambrosia trifida** L. *Giant Ragweed*] ● th 8

Recorded from the Moray coast.

[**Ambrosia artemisiifolia** L. *Ragweed*] ● th 8

Ambrosia elatior L.

Recorded from the Moray coast.

[**Guizotia abyssinica** (L. f.) Cass. *Niger*] ● th 7

Recorded from the Moray coast.

Key to the conspicuous perennial Sunflowers

There are several large, mostly yellow-flowered garden escapes that can be lumped together as 'Sunflowers' but it is not always obvious what genus they belong to, and hence identification can be rather hit and miss. This key starts on the assumption that you have a large (taller than 50cm), yellow-flowered garden escape that is a member of the Asteraceae. It is *not* intended to work for Daisy-flowered composites with white ray florets and yellow eyes.

- | | |
|---|--------------------|
| 1. Pappus of hairs..... | Inula |
| 1. Pappus not of hairs (absent, scaly or a papery ring)..... | 2 |
| 2. Lower leaves opposite | 3 |
| 2. All leaves alternate..... | 4 |
| 3. All leaves opposite, pappus absent | Heliopsis |
| 3. Upper leaves alternate, pappus of scales..... | Helianthus |
| 4. Receptacle lacking scales | Helenium |
| 4. Receptacle with scales | 5 |
| 5. Ray flowers sterile, receptacle highly conic or cylindrical..... | Rudbeckia |
| 5. Ray flowers producing achenes, receptacle merely convex | 6 |
| 6. Anthers bearded at the base, achenes all alike..... | Telekia |
| 6. Anthers not bearded, achenes dimorphic (ray 3-angled, disk many-angled)... | Buphthalmum |

[**Rudbeckia hirta** L. *Black-eyed-Susan*] • h 7
Rudbeckia serotina Nutt., non Sweet

A bristly or roughly pubescent plant with strongly 3-veined, entire leaves. The black achenes are interspersed with abundant clear, receptacular scales.

Recorded from the Moray coast.

[**Rudbeckia laciniata** L. *Coneflower*] • h 7

Told by its deeply divided ternate stem leaves and pinnate basal leaves.

Recorded from Easternness and the Moray coast. Locally dominant by the river mouth at Conon Bridge.

Rudbeckia fulgida 'Goldsturm' *Coneflower* • h 7

Cassley Drive Rosehall NC470021 bungalows 08/09/2012

Helianthus annuus L. *Sunflower* • th 8

An increasingly common crop in the 1990s and in every bird-seed mix. Grown each year in gardens and allotments for 'tallest plant in the parish' competitions.

Dornoch River Street	NH798895	suburbia	10/04/2010
Embo Street Hilton	NH796913	hamlet	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012

Helianthus tuberosus L. *Jerusalem Artichoke* • gr 9

Occurs as a casual on rubbish heaps and occasionally by roadsides. Long persistent in abandoned allotments and on waste ground. Known by the leaves which are alternate above, becoming opposite lower down the stem, its blackish (not green) involucre bracts, and by its swollen (edible) tubers.

Stafford Street Helmsdale ND029154 waste ground 09/09/2012

Also recorded from lowland Caithness.

[Helianthus x laetiflorus Pers. *Perennial Sunflower*] • hp 8

Helianthus x scaberrimus Elliott

Helianthus decapetalus L.

This is the common garden plant, frequent in herbaceous borders and thrown out on waste land from time to time. Told from *H. tuberosus* by its shorter stature (less than 2m tall) and closely appressed involucre bracts. It has rhizomes rather than tubers, but you probably did not want to know that.

Recorded from Easternness and the Moray coast.

[Galinsoga parviflora Cav. *Gallant Soldier*] • th 5

Gardens and waste ground on non-calcareous soils. Local but spreading rapidly. Told from *G. quadriradiata* by the receptacular scales which are 3-fid (not simple), and the pappus scales lacking a fine terminal projection beyond the divided (fimbriate) edges.

NVC: OV 14

Recorded from Easternness and the Moray coast.

[Galinsoga quadriradiata Ruiz and Pav. *Shaggy Soldier*] • th 5

Galinsoga parviflora auct., non Cav.

Galinsoga ciliata (Raf.) S.F. Blake

In similar habitats, but somewhat less frequent than *G. parviflora*. Told from it by the receptacular scales which are slender and simple (not 3-lobed), and by the pappus scales which have a long, fine terminal projection. The glandular hairs on the peduncle are twice as long (0.5mm) as in *G. parviflora*.

Recorded from Easternness and the Moray coast.

[Bidens cernua L. *Nodding Bur-marigold*] th 7

Pond-sides, stream-sides and wet places, in small quantity. Told from *B. tripartita* by the leaves tapered but not petiolate, strongly serrate but unlobed. Declining because of pond filling and drainage.

Recorded from Easternness and the Moray coast.

[*Bidens tripartita* L. *Trifid Bur-marigold*] th 7

Marshy places, pond-sides, ditches and riversides. Told from *B. cernua* by the lower leaves being distinctly petiolate, with at least one pair of obvious lobes. Very local and rare.

NVC: A 1; OV 29-32; S 23

Recorded from the Moray coast.

***Bidens ferulifolia* (Jacq.) DC** • th 6

A popular hanging-basket plant, rarely self-sown on pavements, typically near pubs.

Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Well Street Dornoch	NH799893	cottages	04/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Park Terrace Brora	NC905040	village	13/06/2015

Cosmos bipinnatus* Cav. *Mexican Aster • th 6
Bidens formosa E. Greene

A common garden annual sometimes found as a casual grown from spilled seed. Often grown on allotments in towns. Rather uncommon as an escape, and not naturalised anywhere in vc. 107. A very common alien weed in many warm temperate regions of the world (e.g. forming a solid carpet of mixed colours on roadsides in south-eastern Africa) which may increase in this niche in Britain (see *Verbena bonariensis*).

Camore	NH778903	council houses	12/07/2010
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Stafford Terrace Brora	NC904042	waste ground	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014

***Dahlia x hortensis* Guillaumin** *Dahlia* • h 6

Popular summer bedding plants, very seldom seen outside gardens with us.

Ospisdale House NH713897 parkland 11/07/2013

Tagetes erecta L. *African Marigold* • th 6

Tagetes patula L. *French Marigold*

Used in organic gardening for pest control, and widely planted on allotments, where it occasionally persists as an outcast. It is alleged to repel whitefly and soil nematodes when grown amongst tomatoes and other crops. Weed suppressing (allelopathic) chemicals from the roots are believed to control bindweed, ground elder and couch grass. I have not seen the evidence on which these beliefs are based.

MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

Helenium autumnale L. *Sneezeweed* • th 6

An occasional garden perennial of the golden daisy ilk. An uncommon outcast or relic in vc. 107.

Sutherland Street Helmsdale ND026156 terrace 09/09/2012

Eupatorium cannabinum L. *Hemp-agrimony* h 7

Marshes, wet woods, stream-sides, hedge-banks ditches, and waste ground on damp soil. Local and rare in the lowlands.

NH78

Wester Drumliah	NH607934	hamlet	09/07/2011
Clashmore	NH747895	village	11/09/2012

[Ageratum houstonianum Mill. *Flossflower*] • th 6

This the common blue “powder puff” annual used for edging borders and in municipal bedding schemes. It is occasionally found on waste ground and self-sown in cracks in paving. This is another species that is very common as a roadside alien in warm-temperate and sub-tropical parts of the world (see also *Cosmos bipinnatus* and *Verbena bonariensis*) which might increase with climate warming.

Liatris spicata (L.) Willd. *Blazing Star or Gayfeather* • h 6

Occasional garden plants but seldom seen as an outcast. Not self-seeding with us.

Fountain Road Golspie NC831000 suburbia 07/09/2012

ESCALLONIACEAE

Escallonia macrantha Hook. & Arn. *Escallonia*

• n 6

Escallonia sanguinea hort.*Escallonia rubra* (Ruiz and Pav.) Pers. var. *macrantha* (Hook. & Arn.) Reiche

A common garden plant, occasionally used as a hedge, but seldom found as an outcast or self-sown. White-flowered plants are likely to be the cultivar *E.* 'Iveyi'.

Brora	NC910041	suburbia	11/07/2010
Dunrobin Castle	NC851008	parkland	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Back Road Golspie	NC829000	council houses	08/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Crackaig Farm	NC957107	farmstead	23/06/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Brora Bridge	NC905039	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Camore	NH775903	bungalows	30/06/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Ross Terrace Brora	NC905387	railway	01/07/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Davochfin	NH778889	hamlet	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Dunrobin Castle stone walls	NC850789	stonework	06/07/2013
Academy Street Brora	NC902446	dry banks	07/07/2013

Stafford Road Dornoch	NH801899	council houses	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Lairg	NC581068	council houses	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

ADOXACEAE

Adoxa moschatellina L. *Moschatel*

grh 4

Woods, often near streams, hedges and shady places. Uncommon and absent from large areas. A charismatic native plant which flowers early in leafless woodland and always gives a wonderful sense of spring flowers yet to come. The only species in the entire family; also known as *Town Hall Clock* for the clock faces on each of the four faces of the inflorescence. There is a curious, 4-petalled flower facing skywards from the top of the tower. Local and rare in lowland woods. Most commonly beneath hazel with us, often growing amongst *Anemone nemorosa*.

Big Burn Golspie	NC840005	15/05/1972	
Torbreck	NC700037	15/05/1976	M.J. Marshall

NC60 NC70 NC80

Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Big Burn Golspie	NC840008	woodland	13/05/2011

A detailed survey was undertaken on 11 May 2015 of the Golspie Big Burn populations, which are on the flat valley bottom, just north of the railway bridge. Six distinct patches were found at:

NC 84065 00822
 NC 84048 00848
 NC 84067 00831
 NC 84060 00818
 NC 84081 00840
 NC 84089 00813

NVC: W 8, 9, 19

CAPRIFOLIACEAE

Sambucus racemosa L. *Red-berried Elder*

• m 4 ↓

Sambucus pubens Michaux

Sambucus sieboldiana (Michaux) Graebner

Not properly naturalized in vc. 107 like it is in eastern Scotland and the Cheviot Hills of northern England. Local and rare

Big Burn Golspie	NC839012	28/05/1978	J.K. Butler det. D. McClintock
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NC80

Saw Mill Golspie	NC841012	woodland	09/05/2011
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Carnegie Golf Course	NH745875	links	10/05/2011
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Sambucus nigra L. *Elder*

m 6

Common and generally distributed in woods, hedges, old pits and waste ground on nutrient-rich soils, but almost always close to houses. Widespread and frequent in the lowlands.

NC31 NC40 NC50 NC51 NC60 NC70 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92
ND01 NH59 NH68 NH69 NH78 NH79 NH89

NVC: OV 27; W 6, 8, 10, 12-14, 21, 24, 25

Sambucus nigra f. porphyrophylla 'Eva'

This is the "cut-leaved black" elder. Very rare as an outcast.

Stittenham Road Helmsdale	ND026155	walled gardens	09/09/2012
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Little Ferry	NH805956	hamlet	12/06/2015
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Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
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Academy Street Brora	NC903044	bungalows	13/06/2015
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Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
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Sambucus ebulus L. *Dwarf Elder* or *Danewort*

○ hp 7

Very local and rare in our area. Hedges, ditches, roadsides and waste places, in small patches.

Golspie	roadside	15/07/1962	M. McC. Webster
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NH79

Viburnum opulus L. *Guelder-rose*

m 6

In damp woods and by streams, much less common in dry woods. Infrequent in the lowlands.

Achinduich R Shin	NH580998	15/06/1974	J.E. Kirby
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Cambusmore	NH763981	15/05/1982	S.I. Butler
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Lairg to Shin Falls	NH577984	28/09/2007	Philip Entwistle
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NC30 NC40 NC41 NC80 NC92 NH49 NH59 NH79

Linsidemore	NH540990	woodland	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Linsidemore Wood	NH534991	roadside	12/07/2011
Altass roadside	NH501994	woodland	12/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Back Street Helmsdale	ND026153	alley	09/09/2012
Cassley Drive Roschall	NC470021	bungalows	08/09/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

NVC: W 5,6,8,10,12

Viburnum lantana L. *Wayfaring-tree* m 5

Hedges, thickets, waste ground and woods Many of the recent records are of individuals planted as part of landscaping schemes using native species.

Skibo Castle S aspect	NH736890	waste ground	09/05/2011
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Also recorded from Easternness and the Moray coast.

Viburnum tinus L. *Laurustinus* • m 1

One of the commonest shrubby plants. An evergreen making a useful visual screen, with the added benefit of reliable winter flowering. Occasionally found as a garden outcast on waste ground but seldom, if ever, self-sowing with us.

Golspie Biblical Garden	NC837001	park	11/04/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Castle Street Dornoch	NH794897	village	08/05/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015

Viburnum x bodnantense 'Dawn' Aberc. ex Stearn *Winter-flowering Viburnum* • m 12

This is the delightfully fragrant pink-flowered plant so popular in cottage gardens. It is rare as an outcast and does not come from seed in vc. 107.

Lonemore	NH764884	hamlet	17/05/2015
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Viburnum rhytidophyllum Hemsl. *Wrinkled Viburnum* • m 6

One of the dullest of all the shrubby species; this is the kind of plant that gets shrubberies such a bad name. A grey-green evergreen that occasionally self-seeds (as on railway sidings) but more normally found as an outcast on waste ground in towns and villages, and is often a long-lived remnant of old garden or estate woodland plantings.

Braambury Road Brora NC904048 bungalows 11/05/2015

Symphoricarpos albus (L.) S.F. Blake *Snowberry*

• n 6

Vaccinium album L.

Symphoricarpos racemosus Michaux

Symphoricarpos rivularis Suksd.

Extensively planted in ornamental grounds; plantations, hedges, parks, roadsides and waste ground, forming small thickets. Rarely in quantity. Particularly conspicuous in January and February when its sparse white berries are the only colour in the shrubbery or hedgerow.

Achany walled garden NC571015 01/12/1974 J.E. Kirby

NC50 NC80 NC91 NC92 ND01

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Rhinamain	NC589049	railway	13/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Snowgate Navidale	ND035171	stream	08/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Fanich Doll	NC879037	hamlet	10/09/2012

Garvault Hotel	NC782386	garden	10/09/2012
Railway Terrace Brora	NC905040	garden	10/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Duke Street Golspie	NC838001	old walls	07/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Culgower House	NC976119	parkland	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Helmsdale Station	ND023154	railway	05/05/2013
Gartymore	ND014150	hamlet	05/05/2013
Gartymore	ND013143	hamlet	05/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Brora Station	NC906041	railway	07/05/2013
Main Street Brora	NC903039	street	07/05/2013
Embo	NH817928	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Navidale	ND034168	hamlet	01/07/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Glashbuie North Brora	NC903053	derelict building	05/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
etc.			

Symphoricarpos x chenaultii Rehder *Hybrid Coralberry*

• n 5

One of the commonest plants in late 20th century urban landscaping schemes, particularly on industrial developments. A good ground cover and weed suppressor forming dense, waist-deep mats, and producing copious pale berries, flushed pinkish-purple on one side. Not self-seeding with us, but thicket-forming, and hence quite invasive.

Clashmore	NH747895	village	10/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Backies Golspie	NC830021	woodland	09/05/2011

N Brora	NC904051	bungalows	12/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Clashmore	NH747895	village	11/09/2012
Stafford Street Helmsdale	ND029154	waste ground	09/09/2012
East Clyne	NC896062	hamlet	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
High Street Lairg	NC584063	village	02/07/2013
Sleastary	NH643963	croft	09/07/2013
Dalchalm	NC911059	hamlet	19/06/2015
Lower Brora	NC908037	bungalows	11/05/2015
Little Ferry	NH805956	hamlet	12/06/2015

Linnaea borealis L. *Twinflower*

chw 6



Linnaea borealis in Balblair Woods 20th June 2006 Peter Llewellyn.

A highly charismatic local rarity. Local and rare in native pine woodlands. Golspie (1888), Loch Fleet. Its native status is not entirely certain in vc. 107. The pine plantation at Balblair Wood Loch Fleet dates from 1905, which was a re-planting after a severe storm had blown down the original woodland. It is believed, however, that the original woodland was a genuine ancient pine woodland

Balblair Wood	NH81-97-	15/07/1888	Grant, Mr J.F.
Golspie	NC83-00-	15/07/1893	Grant, Mr J.F.
Balblair Wood	NH81-97-	09/08/1897	Shoolbred, Dr W.A. NMW

East Sutherland	NC8--0--	15/07/1898	Anon.
East Sutherland	NH8--9--	01/08/1902	Druce, Dr G.C.
Golspie	NC84-00-	15/07/1934	Anon.
Balblair Wood	NH805977	15/07/1963	Anthony, Mr J.
Balblair Wood	NH813977	12/07/1983	Gagg, Mr A.N.
Balblair Wood	NH813978	20/02/1987	Geddes, Mrs C., Payne, Mr A.G.
Balblair Wood	NH8--9--	15/07/1989	Murray, Mrs M.E.
Balblair Wood	NH79-97-	28/08/1993	Anon.
Shore Wood	NH788971	15/07/1995	Hawker, Mr D.M.
Balblair Wood	NH816976	15/07/1995	Hawker, Mr D.M.
Golspie	NC83-00-	03/07/1996	Stokes, Mr R.M.
Balblair Wood	NH813978	11/07/2010	M.J. Crawley
Balblair Wood	NH813977	23/07/2010	Mark Jannink
Balblair Wood	NH81332 97762	01/07/2012	Liz Lavery
Balblair Wood	NH81325 97759	01/07/2012	Liz Lavery
Balblair Wood	NH8132- 9776-	11/07/2012	Brian Harle and Gordon Young

NC80 NH79 NH89

NVC: W18, but not recorded in Rodwell (1991)

Leycesteria formosa Wall. *Himalayan Honeysuckle* ● n 2
 Leycesteria crocotochrysos auct., non Airy Shaw

Common bird-sown garden escape. Forming dense clumps of green canes with exotic-looking pendulous clusters of dark-purple and white flowers.

Golspie Main Street	NH831999	street	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Stafford Street Helmsdale	ND029154	waste ground	09/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Brora Golf Club	NC909039	suburbia	27/06/2014
Fountain Road Golspie	NC831001	suburbia	11/05/2015

Weigela florida (Bunge) A. DC *Weigelia* ● n 5

A common garden shrub, rarely found as a relic or outcast.

ND01

Back Road Golspie	NC829000	council houses	08/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Park Terrace Brora	NC905040	village	13/06/2015
High Croft ilton of Embo	NH805915	hamlet	11/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

Lonicera pileata Oliv. *Box-leaved Honeysuckle*

• n 6

A popular landscaping plant used as weed-suppressing ground cover, much planted on industrial estates and business parks. Bird-sown on waste ground in town and villages. The leaves are larger (to 32mm) and forwards-pointing compared with *L. nitida* (below).

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
The Bridge Hotel Helmsdale	ND026154	street	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
North Brora	NC909044	bungalows	19/06/2015
Pittentrail	NC726019	village	10/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

Lonicera nitida E.H. Wilson *Wilson's Honeysuckle*

• n 6

A very common garden plant used for edging perennial beds, for fronting shrubberies and occasionally as a hedge. Often outcast and growing in ditches, on banks and in hedgerows in almost every village. The leaves are smaller (to 16mm), spreading at right-angles or backwards-pointing, and the stem hairs are of two distinctly different lengths compared with *L. pileata* (above).

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Rosebery Avenue Dornoch	NH792896	town houses	18/06/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Stafford Terrace Brora	NC904042	waste ground	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
Ospisdale	NH713898	roadside	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013

Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

***Lonicera nitida* 'Baggesen's Gold'**

Clashmore	NH747895	village	11/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Grange Road Dornoch	NH803897	suburbia	29/06/2014

Lonicera xylosteum L. *Fly Honeysuckle*

• n 5

Hedges and shrubberies; very rare. An uncommon garden plant.

N Brora	NC904051	bungalows	12/05/2011
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Also recorded from Easternness and the Moray coast.

Lonicera rupicola* var. *syringantha (Maxim.) Zabel

• n 5



Manse Road Lairg	NC582069	council houses	16/05/2012
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Lonicera japonica Thunb. *Japanese Honeysuckle*

• n 5

A non-twining, semi-evergreen climber much grown in gardens. Most abundant on railway banks next to gardens. Bird-sown into relatively wild-looking places some distance from the nearest garden. Told from the other non-twining evergreen, *L. henryi*, by the fact that the flowering nodes are not clustered at the apex of the branches, and the bracts beneath each pair of flowers are leaf-like (in *L. henryi* the bracts are tiny and not at all leaf like (they are narrow and tapered to a fine point)). A pernicious alien invader in other parts of the world, where it overgrows and eventually kills whole trees.

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Tuiteam	NC436013	hamlet	12/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012

Lonicera periclymenum L. *Honeysuckle*

m 6

Upland crags, woods, thickets, hedges, rocks, pine plantations, heathy rides etc. Common and widely distributed.

NC30 NC31 NC32 NC40 NC41 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70 NC71 NC74
NC80 NC81 NC82 NC83 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Helmsdale Station	ND020155	railway	06/04/2010
Lairg Free Church Ord Place	NC580058	churtyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Lairg Station	NC582038	railway	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Station	NH825997	railway	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Loth Station Cottage	NC959101	cottages	11/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Rosehall	NC470021	village	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Camore	NH778903	council houses	12/07/2010
N of Colaboll Loch Shin	NC553113	wet heath	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011

Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Astle	NH745919	hamlet	10/05/2011
Clashmore Wood	NH757898	pine wood	09/05/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Kinbrace Burn	NC877284	stream	19/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
Ben Griam Mor NW-facing	NC797395	crags	21/06/2011
E of Skelbo	NH800948	hamlet	23/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
A9 verge at Ballinreach	NC932087	roadside	23/06/2011
Proncy Cottage	NH771918	ditch	09/07/2011
Mound Rock basal woods	NH780985	woodland	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Doll	NC876034	hamlet	10/09/2012
North Tannachy	NC750083	hamlet	10/09/2012
Glenelg	NC737050	hamlet	10/09/2012
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
East Wood Achany Glen	NC572015	birch wood	16/05/2012
Gordonbush Lodge	NC845096	walled gardens	05/05/2013
Big Burn Backies	NC834014	woodland	05/05/2013
Strath Helmsdale	ND022171	birch wood	05/05/2013
Woodside Achurigill	NC485015	hamlet	06/05/2013
Badair Dhonnadh Wood	NC415013	roadside	06/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Arsaig Birch Wood	NC505143	birch wood	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
Sron Lom Glen Cassley	NC358208	crags	03/07/2013
Torrish Burn Kildonan	NC969187	ravine birch wood	05/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Ord of Caithness	ND057173	coastal cliffs	07/07/2013
Black Water	NC719177	streamside crag	10/07/2013

NVC: W 1, 4-6, 8, 10, 12, 14-16, 21, 22, 25

Lonicera periclymenum 'Belgica' *Garden Honeysuckle*

• m 6

This popular garden plant, with purple-white-and-yellow flowers, is long-lived and persistent in wild looking places, sometimes a long way from houses.

Achnairn Shinness	NC555128	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Rhinamain	NH610938	hamlet	18/06/2011
Spinningdale	NH675897	waste ground	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Embo	NH817928	village	23/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
River Street Dornoch	NH798895	bungalows	11/09/2012
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Kildonan Crossing Cottage	NC901216	abandoned garden	09/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012

Riverside Brora	NC905040	semi-detached	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Glen Loth	NC943106	birch wood	17/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Gruids	NC566039	hamlet	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Helmsdale	ND026154	village	05/05/2013
Helmsdale	ND034152	seaside grass	05/05/2013
North Brora Muir	NC891042	hamlet	05/05/2013
Woodside Achurigill	NC485015	hamlet	06/05/2013
Rosehall	NC470020	village	06/05/2013
Gruids Mill	NC576034	hamlet	06/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Skelbo Castle Cottage	NH793952	hamlet	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
Camore	NH775903	bungalows	30/06/2013
High Street Lairg	NC584063	village	02/07/2013
Achosnich	NH726939	croft	09/07/2013
Rosehall	NC470022	village	09/07/2013
Clynelish Brora	NC902053	hamlet	10/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Bardnabeinne	NH714904	hamlet	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
West Helmsdale	ND020157	hamlet	27/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
Lairg	NC585063	village	10/05/2015
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Tuiteam	NC435014	hamlet	12/05/2015
Lairg	NC579068	bungalows	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015

Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Lairg	NC581068	council houses	10/05/2015
Rosehall	NC470021	village	10/05/2015
Ceol Mor Strath Oykel	NH557981	hamlet	12/05/2015
Pittentrail	NC726019	village	10/05/2015
Gunns Plantation Knockdhu	NC593063	hamlet	10/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
West Langwell	NC698088	hamlet	13/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Balblair	NH799973	hamlet	12/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Smithy Cottage Balvraid	NH771954	hamlet	17/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Corrickinloch	NC398253	hamlet	13/05/2015
Glenrossal Gatehouse	NC466036	hamlet	16/05/2015
Lednabirithen	NH769920	hamlet	17/05/2015
West Clyne	NC905064	hamlet	14/05/2015
School Road Helmsdale	ND027155	village	14/06/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Tarvie Cottage Balvraid	NH760951	hamlet	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
West Shinness Lodge	NC529153	hamlet	13/05/2015

VALERIANACEAE

The species of the genus *Valerianella* are very hard to tell apart, and you really must have ripe fruits if you are to have any hope of success. You need to determine whether the fruit is round (*V. locusta*), cylindrical (*V. carinata*), smooth onion-shaped (*V. rimosa*), or ridged onion-shaped (*V. dentata*). More details are given under each species.

Valerianella locusta (L.) Laterr. *Common Cornsalad*

th 4

Valeriana locusta L.

Valerianella olitoria Pollich

This is our most common species, found on rocks, dunes and dry waste ground, sandy arable land, railway cuttings, dry hedge-banks, walls and cornfields. Calyx in fruit absent or vestigial, fruit two times as thick as wide, with a shallow groove on the abaxial face. Local and uncommon. Golspie (1888).

Strathstevan

15/07/1888

J. Grant

Ferry Links

19/07/1977

M.J. Marshall

Morvich		01/09/1978	M.J. Marshall
Morvich	NC743013	01/09/1978	M.J. Marshall

NC70 NC80 NH89

Marian's Rock	NC747012	cliff	13/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Littleferry	NH806956	hamlet	07/05/2013

NVC: OV 3,27,42

[Valerianella dentata (L.) Pollich *Narrow-fruited Cornsalad*] o th 6
 Valeriana locusta L. var. dentata L.

Corners of dry arable fields. Known from other cornsalads by the calyx, which is distinct and persistent in fruit, with fewer than 6 teeth, the main tooth with 2 or more distinct teeth and fruits with 2 abaxial ridges.

NVC: OV 15,16

Recorded from Easternness and the Moray coast.

Valeriana officinalis L. *Common Valerian* hs 6
 Valeriana sambucifolia J.C. Mikan ex Pohl
 Valeriana officinalis L. subsp. sambucifolia (J.C. Mikan ex Pohl) Hayw.
 Valeriana officinalis L. subsp. collina Nyman

Wood margins and scrub, often on fairly dry soils, and in damp grassland by rivers, streams and ditches. Also a cottage garden plant, so some of the records may be garden escapes or outcasts. Common and widespread.

NC30 NC31 NC33 NC40 NC41 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70 NC71 NC72
 NC73 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH78
 NH79 NH88 NH89

Loch Migdale N shore	NH632916	loch side	10/07/2010
Coul Links	NH805946	dune slacks	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Tuitem	NC436013	hamlet	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
St Aethans Invershin	NH578958	roadside	12/07/2010
Maikle Kyle of Sutherland	NH595936	tidal riverbank	12/07/2010
Bonar Bridge	NH608922	roadside	12/07/2010
Kyleside Walk Bonar Bridge	NH610913	tidal riverbank	12/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010

Ledmore Wood	NH664893	ancient woodland	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
West Merkland	NC384329	stream	13/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Rhilochan	NC743071	roadside	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
East Clyne	NC893062	stream	12/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Old Shin Bridge Inveran	NH575975	stonework	10/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Clachnagrane	NH758945	hamlet	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
R Fleet at Pittentrail	NC724018	riverbank	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Opposite Achnagart	NH540980	swamp	12/07/2011
Inveran	NH560970	marsh	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	craggs	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
R Brora at Rallan	NC870045	riverbank	10/09/2012
Doire Dubh	NC365327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Raemore Woods	NC540023	streamside	19/05/2012
Coille Sron Na Croiche	NC455013	pinewood	19/05/2012
R. Oykel Caplich Waterfall	NC382011	rocky stream	19/05/2012
Innisnabioraich	NC374011	riverbank	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Embo dune slacks	NH815933	dune slacks	18/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012

Shin Creek Achany	NC574001	woodland	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Loch Brora	NC856079	stream bank	05/05/2013
Gruids Mill	NC577033	wet woodland	06/05/2013
Loch Fleet by Four Parks	NH775960	shore	08/05/2013
Loch Fleet by Four Parks	NH781955	shore	08/05/2013
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Common Good	NH806873	sand dune	30/06/2013
PROSAMO sites Sallachy	NC560065	birch wood	02/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
Balvalaich Strath of Kildonan	NC942189	streamside	05/07/2013
Braegrudie Strath Brora	NC717105	riverbank	07/07/2013
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
Ord of Caithness	ND056173	stream	07/07/2013
Helmsdale	ND027153	terrace	07/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Achvaich	NH710941	riverbank	09/07/2013
Coill' an Tosgaire Oykel	NC340051	riverbank	09/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Flood Bay	NH712882	coastal grassland	11/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
etc.			

NVC: M 13,22,27; OV 26; S 6,7,25,26; W 1,4,5

Valeriana pyrenaica L. *Pyrenean Valerian*

• hp 6 †

Damp woods and shady hedge-banks. Very local and rare. Not seen recently.

NH79

Centranthus ruber (L.) DC. *Red Valerian*

• hp 6

Kentranthus ruber

Valeriana rubra L.

Dry, sunny banks and walls near houses. White-flowered forms are much less common than red. A garden outcast, occasionally self-seeding.

Golspie Biblical Garden	NC837001	park	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Crackaig Crofts Lothmore	NC965114	hamlet	13/07/2011

River Street Dornoch	NH798895	bungalows	11/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
Back Street Helmsdale	ND026153	alley	09/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Davochfin	NH778889	hamlet	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Helmsdale	ND027153	terrace	07/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Earls Cross Road Dornoch	NH800900	suburbia	21/06/2015
Little Ferry	NH805956	hamlet	14/05/2015
Lonemore	NH764884	hamlet	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
High CroftHilton of Embo	NH805915	hamlet	11/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Plants with white flowers are found uncommonly, as at

Golspie High Street N end	NC837241	terrace	06/07/2013
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DIPSACACEAE

Dipsacus fullonum L. *Wild Teasel*

hs 7

Dipsacus sylvestris Hudson

Dipsacus fullonum L. subsp. *sylvestris* (Hudson) P. Fourn.

Roadsides, wood margins, hedge-banks, stream banks and grassy waste ground. Local and rare.

Rogart Station	NC725019	04/08/1999	BSBI
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NC70 NH79

Braefoot Portgower	ND010135	cottages	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Camore	NH778903	council houses	12/07/2010
Braefoot Portgower	ND010135	railway	23/06/2011
Brora Golf Course	NC910039	club house	23/06/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Clashmore	NH747895	village	11/09/2012
West Kinnauld Rogart	NC732150	hamlet	04/05/2013

Biblical Gardens Golspie	NC837154	garden	05/07/2013
Glashbuie North Brora	NC903536	derelict building	05/07/2013
Sciberscross Lodge	NC775100	parkland	10/07/2013
Clynelish Brora	NC902536	hamlet	10/07/2013

NVC: OV 25; S 26

Cephalaria gigantea (Ledeb.) Bobrov *Giant Scabious*

• hs 7

Scabiosa gigantea Ledeb.

Cephalaria elata (Hornem.) Schrader

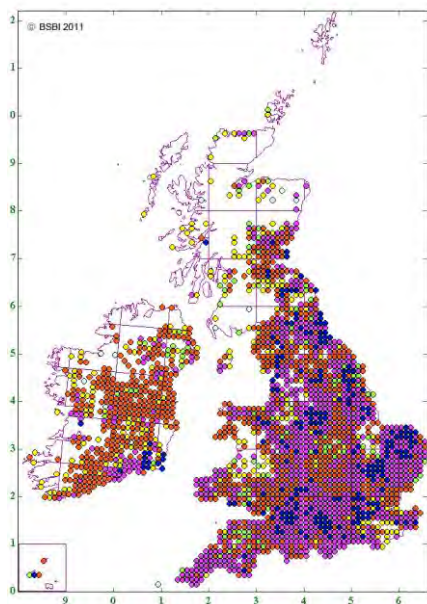
Roadsides and waste ground near houses. Rare, but established and likely to spread. This is the *C. tatarica* of gardens, the common, very tall, pale-yellow-flowered scabious, which forms a magnificent clump of leaves, dark green and divided.

Sworddale Bonar Bridge	NH611915	council houses	10/07/2010
Wester Drumliah	NH607934	hamlet	09/07/2011
Skibo Castle S front	NH737890	parkland	11/07/2013

Knautia arvensis (L.) Coult. *Field Scabious*

hs 7

Scabiosa arvensis L.



A rare garden escape with us. Also recorded from the north coast of Caithness and West Sutherland, and from the Moray coast.

Embo Street Hilton	NH800913	hamlet	10/07/2011
Sworddale Crescent Bonar	NH611915	council houses	06/09/2012
Clynelish Brora	NC902536	hamlet	10/07/2013

Skibo Castle S front NH737890 parkland 11/07/2013

NVC: CG 5-8; MG 1, 5

Knautia macedonica Griseb. *Red Scabious* ● hs 7

This is the garden scabious with red (deep purple) flowers. A rare escape or outcast.

Bonar Bridge	NH611911	suburbia	12/07/2010
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Well Street Dornoch	NH799893	cottages	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Navidale	ND037161	hamlet	14/06/2015

Succisa pratensis Moench *Devil's-bit Scabious* hs 6
Scabiosa succisa L.

Heaths, damp pastures, dunes, sea cliffs and moist open woods on acid soils. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH79 NH89

NVC: H 5, 7, 10, 12, 14-16, 20, 21; CG 10-14; U 4, 10, 15-19; M 4, 5, 6, 9, 10, 13, 15, 16, 21-27, 29;
 MG 2, 4, 5, 9; W 4; SD 8, 14, 15; MC 10

Scabiosa columbaria L. *Small Scabious* ● h 6

A plant of dry grassy and rocky places, but a rare garden plant with us. Very rare as an outcast.

Embo Street Hilton NH800913 hamlet 10/07/2011

GRISELINIACEAE

Griselinia littoralis (Raoul) Raoul *New Zealand Broadleaf* ● m 6

An occasional hedging plant, especially at the seaside; persistent and occasionally self sown.

Golspie NC832000 village 08/05/2015

ARALIACEAE

Hedera helix L. m 9
Hedera helix subsp. **helix** *Common Ivy*

As a climber in woods, hedges, sea walls and old buildings. Also as a carpeting species, it can form an extremely characteristic community of the woodland floor in which ivy is completely dominant,

with close to 100% cover, with occasional *Rubus*, *Ilex* or *Hyacinthoides* poking through. Widespread and common.

NC30 NC31 NC32 NC40 NC50 NC60 NC70 NC71 NC73 NC74 NC80 NC81 NC83 NC90 NC91
NC92 ND01 NH49 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: W 1-17, 21-25; MG 1; MC 12; OV 24, 27, 41, 42

Hedera helix subsp. **hibernica** *Atlantic Ivy* ● m 9

Told by its pale, yellowish brown (not whitish) hairs on the underside of the leaves, which all lie parallel to the leaf surface (i.e. none projecting away from the surface). The leaves are typically bigger than those of Common Ivy (> 8cm diameter) especially in the garden cultivars, and the plants are seldom capable of climbing. The cultivar 'Hibernica' *Irish Ivy* is the most commonly seen as a garden outcast.

Crackaig	NC957107	03/08/1999	BSBI
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NC91

Ornamental ivies (mainly **H. colchica** (K. Koch) K. Koch) are widely used as ground cover in landscaping schemes, but these are uncommon as bird-sown garden escapes or outcasts.

Fatsia japonica (Thunb.) Decne. & Planch *Fatsia* ● m 9

Commonly grown in gardens and occasionally self sown in the warmer parts of towns.

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012

APIACEAE

Hydrocotyle vulgaris L. *Marsh Pennywort* h 6

Damp dune slacks, bogs, lake-sides, marshes, lawns and damp woodland rides on acid soils. Locally frequent, but absent from calcareous soils. Known at once by its hairless peltate leaves. Locally frequent.

Loch Muidhe	15/07/1976	M.J. Marshall
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NC40 NC42 NC50 NC51 NC60 NC61 NC70 NC71 NC73 NC80 NC82 NC83 NC90 NC91 NC92
ND01 NH49 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Coul Links	NH805946	dune slacks	11/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Linsidmore Wood	NH498998	riverbank	12/07/2010
Lothmore gravel pit	NC970105	pond	12/05/2011
Embo dune slacks	NH813940	dune slacks	23/06/2011
Mound Rock	NH770980	wet woodland	11/07/2011

The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Inveran	NH560970	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Dornoch Links W	NH780880	dune slacks	14/07/2011
Embo dune slacks	NH815933	dune slacks	18/05/2012
Coul Links	NH804948	dune slacks	04/07/2013

NVC: M 13,22,24,27; OV 35; S 4,8,12,19,25; W 1,4,5

Sanicula europaea L. *Sanicle*

hr 5

Dry woods, thickets and bushy places, mostly on basic soils. Local and uncommon.

E of Torrish 15/07/1962 M. McC. Webster

NC30 NC40 NC50 NC70 NC74 NC81 NC91 ND01 NH69 NH78 NH79

Ravens Rock Gorge	NC498011	woodland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Mound Rock	NH779985	bracken	10/07/2011
Ravens Rock Gorge	NC498011	woodland	12/07/2011
Glen Loth	NC943118	streamside	17/05/2012
Strath Helmsdale	ND022171	birch wood	05/05/2013
Golspie Big Burn	NC841006	woodland	11/05/2015

NVC: W 8,10,12

Astrantia major L. *Astrantia*

• hs 5

A universal herbaceous border plant, self-sowing in gardens but very rarely escaping and uncommon but locally long-persistent as outcasts. Local and rare.

NH59

Clashmore	NH747895	village	10/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Embo	NH817928	village	23/06/2011
Eagle Hotel (rear) Dornoch	NH795897	abandoned garden	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Clashmore	NH747895	village	11/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012

Ord Place Lairg	NC579059	council houses	06/09/2012
Kildonan Lodge	NC904222	parkland	01/07/2013
High Street Lairg	NC584632	village	02/07/2013
Rosehall	NC470222	village	09/07/2013
Sleastery	NH643963	croft	09/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Academy Street Brora	NC903044	bungalows	13/06/2015
Kildonan Lodge	NC904222	parkland	17/06/2015

Eryngium planum L. *Blue Eryngo*

• hs 7

An occasional garden plant; rarely naturalized in waste places.

Golspie Biblical Garden	NC837001	park	11/04/2010
Camore	NH778903	council houses	12/07/2010
Skibo Castle S wall	NH735891	path	10/05/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013

Eryngium planum 'Blue Hobbit' *Dwarf Blue Eryngo*

• hs 7

Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
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[**Eryngium maritimum** L. *Sea-holly*]

hs 7

Recorded from Easternness and the Moray coast.

Eryngium agavifolium Griseb. *Spaniards*

• hs 7

A statuesque herbaceous perennial with spiny leaves and large, globular flower heads. Rare in cultivation and extremely rare as an outcast.

Johnstone Crescent Brora	NC905036	council houses	01/07/2013
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Cuminum cyminum L. *Cumin* • th 6

Occasionally grown in herb gardens and rarely found on waste ground from discarded seed.

Chaerophyllum temulum L. *Rough Chervil*
Chaerophyllum temulentum L.

hs 6

Thickets, hedge-banks, and wood margins. Told from the much earlier-flowering *Anthriscus* by its roughly hairy, solid (not hollow) stems, and its longitudinally ridged fruits. Local and rare.

NC82

NVC: MG 1; W 24

Anthriscus sylvestris (L.) Hoffm. *Cow Parsley* hs 4
Cerefolium sylvestre Bess.
Chaerophyllum sylvestre L.

Hedges, waysides, fields, shady places, woods, plantations, thickets; abundant and generally distributed in rich moist soil. The commonest and most conspicuous umbellifer, and the first into flower. Now dominant over much of the lowland arable county in eutrophic verges where fertiliser has drifted from adjacent fields. It forms a tall community containing few (if any) low growing wildflowers. Widespread and abundant.

NC50 NC51 NC60 NC70 NC73 NC80 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH68 NH69
 NH78 NH79 NH88 NH89

NVC: MG 1; OV 24-27; W 8,10,12,24

Anthriscus caucalis M. Bieb. *Bur Chervil* th 5
Cerefolium anthriscus Beck
Anthriscus vulgaris Pers., non Bernh.
Anthriscus neglecta Boiss. & Reuter ex Lange
Anthriscus scandicina (G. Weber) Mansf., nom. illegit.

An elegant plant, preferring dry sandy soil, and found in bare places in dry grassland, arable fields, limestone walls, waysides and dry hedge-banks; local, rare and sporadic. It has small fruits (< 5mm) covered in hooked bristles. Local and rare.

ND01 NH89

[Anthriscus cerefolium (L.) Hoffm. *Garden Chervil*] ● th 5
Cerefolium sativum Bess.
Scandix cerefolium L.

A rare casual of waste ground; told from *A. sylvestris* by the well differentiated beak on its elongated, hairless fruits and by its pubescent rays. The crushed foliage smells of aniseed and Parsil.

Recorded from the Moray coast.

[Scandix pecten-veneris L. *Shepherd's-needle*] ○ th 4

Formerly a weed of heavy calcareous arable soils that dry out in summer, but now almost eradicated by herbicide use. It is now scarce in Britain.

NVC: OV 15

Recorded from Easternness and the Moray coast.

Myrrhis odorata (L.) Scop. *Sweet Cicely*
Scandix odorata L.

• hs 5 ↓

Railway-sides, waysides, waste ground and field margins. Much grown in herb gardens for its wonderfully aniseed-scented leaves, but seldom escaping. Its seeds have the distinction of being the largest of any British herb (at 35mg, only a few tree seeds are heavier). Scattered and uncommon in the lowlands.

Bonar Bridge	NH610917	15/05/1962	John Anthony
Spinningdale	NH676898	15/05/1962	John Anthony
Aspidale	NH714898	15/05/1962	John Anthony
Skibo	NH735892	15/05/1962	John Anthony
Golspie	NC830000	15/05/1962	John Anthony
Helmsale	ND030154	15/05/1962	John Anthony

NC30 NC60 NC70 NC74 NC80 NC91 ND01 NH68 NH69 NH78 NH89

E Pittentrail	NC729016	roadside	10/05/2011
Little Rogart	NC732041	hamlet	12/05/2011
A9 verge at Loth	NC965112	roadside	08/05/2011
N Portgower	ND013137	roadside	08/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Whiteface	NH708893	roadside	07/05/2011
Rhivaig Overskibo	NH724895	hamlet	07/05/2011
Pulrossie Skibo Estate	NH725884	arable	09/05/2011
W of Skibo Castle	NH733895	roadside	07/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Skibo Castle S aspect	NH736890	parkland	09/05/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Davoch Pittentrail	NC723016	garden	10/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Crackaig Crofts Lothmore	NC964111	ruins	17/05/2012
Pittentrail	NC726019	village	04/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Ospisdale	NH712897	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015
Doll	NC881027	hamlet	11/05/2015
Pittentrail	NC726019	village	10/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Marrel	ND018162	roadside	14/06/2015

NVC: MG 1

[**Coriandrum sativum** L. *Coriander*]

• th 6

A popular garden herb, much used in the flavouring and garnish of curries. The seeds are harvested in late summer for use as spice and flavouring. Formerly grown as an aphrodisiac. An occasional garden escape and a frequent culinary outcast on tips. Fresh coriander has been sold in supermarkets since about 1985.

Recorded from Easternness.

[*Smyrniolum olusatrum* L. *Alexanders*]

o hs 4

Hedge-banks, roadsides and gardens near houses. Rare, but persistent. This is an alien with a very interesting distribution in Britain; it is locally dominant on lane-sides, banks and cliffs on many parts of the coast, but almost never extends more than a few kilometers inland. It is increasingly common inland in south-western Britain, and in major urban centres like London.

NVC: OV 24

Recorded from Caithness and the Moray coast, so it could well be lurking in vc. 107

Conopodium majus* (Gouan) Loret *Pignut

g 5

Bunium majus Gouan

Birch woods, thickets, hedges, heaths and grassland (probably as a woodland relic). Widespread and locally frequent.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC60 NC62 NC63 NC70 NC71 NC72
NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69
NH78 NH79 NH89

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Tuitem	NC436013	hamlet	12/07/2010
Rosehall	NC470021	village	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Glen Cassley	NC455050	riverbank	10/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Spinningdale	NH674896	woodland	10/05/2011

Strath Carnaig birch woods	NH724983	woodland	13/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Kinbrace Burn	NC874284	grassy bank	19/06/2011
Halmadarie	NC697314	rushy grassland	20/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
Halmadarie Burn	NC697307	dry heath	20/06/2011
Gernsary croft	NC730323	dry stone wall	20/06/2011
Garbh-allt Garvault Hotel	NC781389	stream	21/06/2011
Rimsdale Burn	NC739398	stream	22/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Achnahuie	NC716072	ditch	22/06/2011
East Langwell	NC726064	hamlet	22/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Shinness Lodge	NC539141	estate	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Inveran	NH560970	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
Ach an Fhionnfhuaraidh	NC899240	grassland	13/07/2011
Allt an Taghain	NC803255	woodland	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
etc.			

NVC: MG 1, 3, 5, 9; OV 24; U 4, 16, 20; W 7-11, 25; MC 9

[Pimpinella major (L.) Huds. Greater Burnet-saxifrage]
Pimpinella saxifraga L. var. major L.

hs 6

Oak woods and thickets on clay soils; local and decreasing. Told by its hollow stems and larger fruits (3-4mm not 2-3mm).

NVC: MG 1

Pimpinella saxifraga L. Burnet-saxifrage

hs 7 †

Dunes and dry grassy places. Golspie, Clyne. Always local and rare, but no recent records.

NC80

NVC: CG 4-9; MG 1, 5, 6; SD 9

Aegopodium podagraria L. *Ground-elder*

o hs 5

A pernicious weed of herbaceous borders in gardens, woodland edges, hedgerows, waysides, ditch-banks and disturbed waste ground in towns; rather common and generally distributed in the lowlands.

NC40 NC50 NC51 NC60 NC70 NC73 NC80 NC82 NC83 NC90 NC91 NC92 ND01 NH59 NH68
NH69 NH78 NH79 NH88 NH89

NVC: MG 1; W 10 (poorly classified)

[Berula erecta (Huds.) Coville *Lesser Water-parsnip*]

hel 7

Sium erectum Hudson

Siella erecta (Hudson) Pim., nom. illegit.

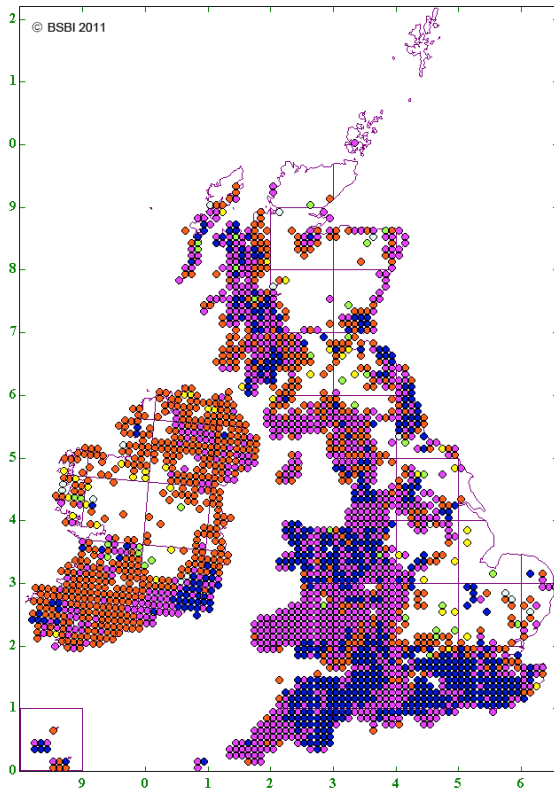
Ditches, water meadows and river-sides. Told from *Apium nodiflorum* by the presence of a ring mark on the petiole, some way below the lowest pair of leaflets,

NVC: A 2,3,17; M 22; OV 26,30,32; S4,S5,S12,S23,S25; W 5

Recorded from Easternness and the Moray coast.

Oenanthe crocata L. *Hemlock Water-dropwort*

grt 6



Wet places, ditches and waysides. Local and rare. We are at the northern extreme of its British distribution in vc. 107.

Tressady NC697044 27/07/1977 M.J. Marshall

NC60 NC91 NH89

Embo Dunes NH815933 dune slacks 18/05/2012

Embo Dunes NH815933 dune slacks 11/06/2015

NVC: M 27; MG 10; S 3,4,6,14,26,28; W 5,6

***Aethusa cynapium* L. Fool's Parsley**

th 7

Aethusa cynapium* subsp. *cynapium

Cultivated ground arable fields, bare ground and gardens; occasional or locally frequent. The subsp. *agrestis* is a much smaller plant, with the longest pedicels about as long as the bracteoles (rather than less than half as long). Very local and rare. Golspie.

NH89

The Bridge Bonar Bridge NH610915 old walls 06/09/2012

NVC: OV 7, 8, 15, 16

Foeniculum vulgare Mill. *Fennel*

○ hp 7

Waste places, railway banks, roadsides, gardens, pavements and waste ground as a self-sown garden escape. *Foeniculum vulgare* 'Purpureum' is a common garden plant occasionally seen as an escape on pavements and waste ground. Florence Fennel or Florentine (*F. vulgare* var. *azoricum*) is grown in gardens and allotments for its swollen leaf bases, but I have not found it as an outcast.

Braefoot Portgower	ND010135	railway	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Lairg Road Bonar Bridge	NH609919	suburbia	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Tower Street Golspie	NC835006	council houses	14/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Doll	NC888028	hamlet	10/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Portgower	ND010135	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
North Brora	NC909044	bungalows	19/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

[**Anethum graveolens** L. *Dill*]

● th 6

Grown in herb gardens, but no longer much used in bottling or pickling. Very rare as an outcast or self-sown from discarded seed.

Recorded from the Moray coast.

Conium maculatum L. *Hemlock*

○ hs 6

Roadsides, waste ground, manure heaps, by streams and ditches, coppices, hedges and river-banks, especially in towns. Tolerant of eutrophication from fertilizer drift. Occasional in the lowlands.

Dornoch	NH800895	15/07/1955	John Anthony
Helmsdale	ND030154	15/07/1960	John Anthony

NC91 ND01 NH78 NH88 NH89

Rosehall	NC470021	village	12/07/2010
Crackaig Farm	NC957107	farmstead	23/06/2011

Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Crackaig Farm Wood	NC957105	woodland	17/05/2012
Lower Brora	NC908037	bungalows	11/05/2015
Crackaig Farm	NC957107	farmyard	18/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

NVC: OV 22,24,25; S 23

[Bupleurum subovatum Link ex Spreng. *False Thorow-wax*] ● th 7
Bupleurum lancifolium auct., non Hornem.

Cornfields, chiefly on gravelly soil, sporadic, and never more than locally frequent.

Recorded from Easternness and the Moray coast.

[Apium graveolens L. *Wild Celery*] hs 6
Apium graveolens L. subsp. *dulce* (Miller) Lemke and Rothm., nom. inval.

Marshy meadows and brook sides, very local as a native plant. Saline ditch and waste places. Very local. Cultivated celery, *A. graveolens* var. *dulce* is a common garden and allotment crop, also found as culinary waste on tips. Celeriac, *A. graveolens* var. *rapaceum*, is grown for its swollen corms.

NVC: S 4,14,23

Recorded from the Moray coast.

[Apium nodiflorum (L.) Lag. *Fool's-water-cress*] hel 7
Sium nodiflorum L.

Told from *Berula erecta* by the absence of a ring mark on the petiole, some way below the lowest pair of leaflets.

NVC: A 1,2,8,19; S 12,14,15,22,23,26; W 1,6

Recorded from Easternness and the Moray coast.

Apium inundatum (L.) Rchb.f. *Lesser Marshwort* hyd 6
Sium inundatum L.

Pools of still, shallow water and on mud nearby. The lower leaves are 2 to 3 pinnate (not 1 pinnate as in *A. nodiflorum*), with filiform segments if submerged. Very local and rare.

The Mound	NH775980	15/07/1962	V.S. Summerhayes
The Mound	NH775980	15/07/1888	J. Grant

NH68 NH79 NH88 NH89

NVC: A 11; OV 35; S 5

Petroselinum crispum (Mill.) Nyman ex A.W. Hill *Garden Parsley* ● hs 6
Apium crispum Miller

Walls, waste places, and rubbish tips (as *Carum petroselinum*); rare and sporadic. Garden parsley is grown in virtually every garden, and in window boxes or on kitchen window sills of even the smallest apartments. The common form is crisped-leaved parsley. Flat leaved parsley is sometimes grown for use as food decoration, but one rarely sees Hamburg parsley (var. *tuberosum*) which is grown for its swollen root as well as its flat leaves.

Muirfield Drive Brora	NC906043	council houses	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Hilton	NH804915	hamlet	04/07/2013

Ammi majus L. *Bullwort* ● hs 6

A very distinctive plant with strongly contrasting upper and lower leaves and conspicuous floral bracts. Always planted, either intentionally or unintentionally. Local and rare.

Skibo Castle S front	NH737890	parkland	11/07/2013
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[**Carum carvi** L. *Caraway*] ○ hs 6

Waste places, sown fields and rarely in meadows, as a rare casual. Grown in herb gardens where it self-sows freely, and hence found on tips as a garden outcast.

Angelica sylvestris L. *Wild Angelica* hs 7

Damp woods, thickets, hedgerows, sea cliffs, stream-sides, fens and marshy meadows. Common and generally distributed.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70
NC71 NC72 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68
NH69 NH78 NH79 NH88 NH89

Clashmore	NH747895	village	10/07/2010
Loch Migdale N shore	NH632916	loch side	10/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Maikle Kyle of Sutherland	NH595936	tidal riverbank	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Burnside	NH609926	lane	09/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Strath Fleet	NH765994	wooded stream	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011

The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
N of Coire Gorm	NC360290	crags	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
etc.			

NVC: M 13,22,24,27; MG 9,10; OV 26; S 3-8,10,14,15,18,25,26,28; W 1,4-6,8,25; SD 6, 8, 14, 15, 17; MC 3, 8-10

Levisticum officinale W.D.J. Koch *Lovage*

• hs 7

On waste ground, paths and walls. Very local and rare as a garden escape.

Rhian Breck	NC599048	hamlet	13/05/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Pittentrail	NC726019	village	10/05/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015

Also recorded from the Moray coast.

Imperatoria ostruthium L. *Masterwort*
Peucedanum ostruthium (L.) W.D.J. Koch

• hs 7

Marshy fields and riversides. Very local and rare.

Loth 15/07/1962 M. McC. Webster

NC91

The recent record is not far from the original site at Loth. The Crofter's Memorial population is a vigorous patch, dominating several metres of the bank of a sluggish stream, both up- and down-

stream of the bridge. It has clearly been there a long time, but it is not obvious whether it was deliberately planted.



The highly distinctive trifoliate leaf shape of *Imperatoria ostruthium*.



The flowers of *Imperatoria ostruthium* are in widely-separated clusters.

Crofters Monument Gartymore	ND013154	roadside	05/05/2013
Crofters Monument Gartymore	ND013153	ditch	01/07/2013
Clashnagrave Badninish	NH758945	hamlet	17/05/2015



The habitat of *Imperatoria ostruthium* in a vegetation-choked stream at Gartymore, by the Crofter's monument.

NVC: no data, but see the photograph above, where it is growing with *Alopecurus pratensis*, *Anthoxanthum odoratum*, *Anthriscus sylvestris*, *Arrhenatherum elatius*, *Athyrium filix-femina*, *Caltha palustris*, *Cirsium palustre*, *Digitalis purpurea*, *Dryopteris borreeri*, *Filipendula ulmaria*, *Heracleum sphondylium*, *Myosotis secunda*, *Pteridium aquilinum*, *Rubus idaeus*, *Rumex acetosa*, *Senecio jacobaea*, *Urtica dioica*, *Vaccinium myrtillus* and *Vicia sepium*.

Pastinaca sativa L. *Wild Parsnip*

hs 7

Pastinaca sylvestris Miller

Peucedanum sativum Benth. & Hook. fil.

Banks, roadsides, field borders and waste ground in towns. Very local and rare.

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Burghfield Hotel Dornoch	NH796898	abandoned garden	09/07/2011
Burghfield Hotel Dornoch	NH796898	derelict garden	05/07/2013

NVC: CG 3; MG 1

Pastinaca sativa var. *hortensis* Gaudin *Parsnip*

Very common allotment and vegetable garden plant, long persistent in abandoned gardens and often found on waste ground and tips as a garden outcast. The hairs on the stem are straight (not long and wavy). The swollen root is quickly lost in feral plants.

Heracleum sphondylium L. *Hogweed*

hs 6

Heracleum sphondylium subsp. **sphondylium**

Roadsides, wood margins, hedge-banks, un-grazed grassland, and railway banks. Frequent and widespread in the lowlands; greatly increased in abundance as a result of eutrophication and fertilizer pollution of roadside verges.

NC30 NC31 NC40 NC41 NC42 NC50 NC51 NC60 NC70 NC71 NC73 NC74 NC80 NC81 NC82
NC83 NC84 NC90 NC91 NC92 ND01 NH39 NH49 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: M 27; MG 1,4,5,9; OV 3,10,12,15,18,19,21-27; S 23,26; W 6,8,10,12,21,24,25; SD 6-9, 18;
SM 28; MC 9

[**Heracleum sphondylium** x **H. mantegazzianum**]

Recorded from the Moray coast.

Heracleum mantegazzianum Sommier and Levier *Giant Hogweed*

● hs 6

Wet grassland, lake-sides, hedge-banks, roadsides, riversides, ditches, water features and damp waste ground. Often planted by ornamental lakes on the larger estates. It is one of only a handful of British species mentioned by name in the Wildlife and Countryside Act: it is an offence to introduce plants or seeds into the wild (Japanese knotweed is another). This is a little late, since Victorian gardeners scattered its seeds far and wide, regarding the plant as “the most suitable for the retired corner of a churchyard, or for a glade in a wood” (Loudon). The problem is that the plant is highly attractive to children because it makes a proper jungle for them to play in; it then attacks them and photosensitises their skin, so that when they emerge into the sunlight they come out in an awful rash on their lips, eyes and arms. Very local and rare in vc. 107 but common on the Moray coast.

NH78

Torilis japonica (Houtt.) DC. *Upright Hedge-parsley*

th 7

Caucalis japonica Houtt.

Torilis anthriscus (L.) C. Gmelin, non Gaertner

Hedgerows, borders of fields and woodlands, waste places. Occasional in the lowlands.

Helmsdale 15/07/1962 John Anthony

NC70 NC80 NC90 NC91 ND01 NH68 NH78 NH79

Dornoch Common Good NH806879 sand dunes 13/07/2010

Linsidemore Wood NH530990 woodland 12/07/2011

NVC: OV 23; W 21

Daucus carota L.

hs 6

Daucus carota subsp. **carota** *Wild Carrot*

Dunes, dry pastures, roadsides, sandy fields, railway banks and waste ground. Very local and rare in vc. 107, but frequent on the Moray coast and on the north and west coasts of Sutherland.

NC70

Seaforth Road Golspie	NH829999	council houses	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012

NVC: CG 2-4; MG 1; OV 2, 4, 25, 41; SD 8, 18; MC 4-12;

Daucus carota subsp. **sativus** (Hoffm.) Arcang. *Carrot*

Daucus carota L. var. *sativa* Hoffm.

Much grown in gardens and allotments and thrown out as culinary waste on tips. There are 6 main groups: 'Amsterdam' small and quick growing earlies; 'Nantes' long and more cylindrical, 'Round' for shallow or poor soil main crops; 'Chantenay' thick tapering roots for use in summer; 'Bericum' long cylindrical carrots for storage or late summer use; 'Autumn King' broad shouldered roots mainly for storage. Many named F1 hybrids are sold as seed in garden centres.

MONOCOTYLEDONS

ACORACEAE

[**Acorus calamus** L. *Sweet-flag*] ● hel 5

Margins of rivers and ornamental lakes; locally common. Its leaves are light, lime green and crinkled, and are spicy-fragrant when crushed. The British plant is a sterile triploid that never sets seed and spreads entirely by rhizome fragments.

NVC: S 12,15

Recorded from Easternness and the Moray coast.

ARACEAE

Lysichiton americanus Hulten and H. St.John *American Skunk-cabbage* ● hel 4

Muddy willow swamps, willow holts, alder carr and other wet woods along streams. Naturalized plentifully in a few places down stream from water gardens.

Corriekinloch	NC398253	hamlet	13/05/2015
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Calla palustris L. *Bog Arum* ● hr 6

Persistent in shallow ponds where it is planted for ornament. Very local and rare.

Ferrycroft Wood Lairg NC578066 02/08/2005 M.E. Murray

NC50

Arum maculatum L. *Lords-and-Ladies*

gt 4

Most conspicuous in late summer when the bright red berries are at their peak. Very local and rare in vc. 107 but recorded from Caithness and frequent on the Moray coast.

Golspie Biblical Garden NC837001 botanical garden 07/09/2012

NH78

Arum italicum Mill. *Italian Lords-and-Ladies*

• gt 5

Arum italicum subsp. **italicum**

This is the garden escape with white-veined leaves and divergent basal lobes.

Golspie Biblical Garden NC837001 botanical garden 11/04/2010

Golspie Biblical Garden NC837001 botanical garden 13/06/2015

Dracunculus vulgaris Schott *Dragon Arum*

• gt 5



A very rare garden outcast in vc. 107. Spectacular in flower with its dark purple spadix appendage.

Dunrobin Castle NC851008 parkland 17/05/2012

LEMNACEAE

Lemna minor L. *Common Duckweed* hyd 6

Wet woodland, slow rivers, lakes, ponds and ditches, in nutrient-rich water. Fronds 2 to 5mm long with 3 veins. Uncommon in the lowlands.

Dornoch Links	NH803894	15/07/1955	John Anthony
Rogart		15/07/1957	M. McC. Webster
Glen Sletdale		15/07/1962	V.S. Summerhayes

Big Burn Golspie 15/08/1976 M.J. Marshall

NC70 NC80 NC91 ND01 NH78 NH89

The Alders The Mound	NH759985	woodland	13/05/2011
Torboll Farm S	NH750980	composite	11/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Ospisdale House	NH713897	parkland	11/07/2013
The Mound Alderwoods	NH764980	wet woodland	12/05/2015

NVC: A 1-3,5,7-12,15,16-18,20,21; M 22; OV 26,29; S 3-5,7,8,10,12-16,22,23; W 1

[*Lemna trisulca* L. Ivy-leaved Duckweed] hyd 5

Ponds, ditches, principally of stagnant water, often in shade; not uncommon in low situations. In branched chains of 3 to 50, fronds narrowed to a stalk.

NVC: A 1-3,5,8,9,11,12,15,19,20; S 12,13,14,16,23

Recorded from Easternness and the Moray coast.

TOFIELDIACEAE

Tofieldia pusilla (Michx.) Pers. *Scottish Asphodel* hs 7

In flushes and marshes in the mountains. Very local and rare on Ben More Assynt. A much commoner plant in the Central Highlands than in the northeast.

NC31

Bealaich Traligill NC303190 11/07/98 Anon.

NVC: M 10, 11, 12; CG 10, 14

ALISMATACEAE

[*Baldellia ranunculoides* (L.) Parl. Lesser Water-plantain] hel 5

Echinodorus ranunculoides

Alisma ranunculoides L.

On mud in ditches and by ponds.

NVC: A 22

Recorded from Easter Ross, Easternness and the Moray coast.

***Alisma plantago-aquatica* L. Water-plantain** hyd 6

Sides of rivers, streams, ponds, canals, ditches and wet places. Most probably intentionally introduced. Very local and rare.

NH78

Ospisdale House	NH713897	parkland	11/07/2013
Rosehall Forest Trails	NC479018	pine plantation	28/06/2014

NVC: A 2,9,20; OV 30,31,35; S 5,8,10,12-15,18,19,22

BUTOMACEAE

[**Butomus umbellatus** L. *Flowering-rush*] hel 7

Margins of rivers and ponds, in small quantity. Often planted these days in pond reconstruction projects.

NVC: S 14

Recorded from Easternness and the Moray coast.

HYDROCHARITACEAE

[**Stratiotes aloides** L. *Water-soldier*] • hyd 6

Small streams, ditches and ornamental lakes, very local and rare.

NVC: A 11

Recorded from Easternness.

Elodea canadensis Michx. *Canadian Waterweed* • hyd 5
Anacharis alsinastrum Bab.
Anacharis canadensis (Michaux) Planchon

Ponds, streams and ditches, even in shade. This species is still declining in the 21st century as *E. nuttallii* is increasing, but the mechanism is unknown. Very local and rare.

NH69 NH79

Loch Laro	NH608994	loch	07/07/1987	SNH
Loch Lannsaidh	NH737945	loch	11/08/1987	SNH
Loch Evelix	NH740876	loch	22/09/1987	SNH
Loch Ospisdale	NH731889	loch	22/09/1987	SNH

NVC: A 1,3,5,7-12,15,17,19,20,23; S 8,13,22

[**Elodea nuttallii** (Planch.) H. St. John *Nuttall's Waterweed*] • hyd 5
Anacharis nuttallii Planchon
Hydrilla lithuanica Dandy, pro parte

It is increasing rapidly in other parts of the British Isles, colonizing many ponds, streams and stretches of some rivers and appears likely to out-compete *E. canadensis*. "In ponds it can oust many more ecologically desirable and attractive plants" (Brewis *et al.* 1996). Told from *E. canadensis* by the leaf tips: they are more pointy in *E. nuttallii* (acute to acuminate, rather than obtuse to subacute in *E. canadensis*). The leaves are also narrower just (0.5mm) behind the apex (0.2-0.7mm wide rather than 0.8-2.3mm). The jizz is of narrow, finger-like stems (not chubby fingers) with recurved leaves. Told from *E. callitrichoides* by the larger marginal teeth (0.1-0.15mm rather than 0.05-0.1mm) and larger sepals (3-4.3mm rather than 1.6-2.5mm) of the latter.

NVC: A 5,11,12,23

Recorded from Easternness and the Moray coast.

Lagarosiphon major (Ridl.) Moss ex V.A. Wager *Curly Waterweed* • hyd 5
Lagarosiphon muscoides Harvey var. *major* Ridley
Elodea crispa hort.

"A commonly used aquarists' weed which can dominate a small pond, but does not seem to colonise streams" (Brewis *et al.* 1996). Our plants are all females, spread by vegetative means.

Dornoch Cnoc-An-Lobht NH794898 suburbia 10/04/2010

JUNCAGINACEAE

Triglochin palustre L. *Marsh Arrowgrass* hel 6

Marshes, fens and wet meadows. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71
 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH69 NH78
 NH79 NH88 NH89

Longuish Road Junction	NH644919	wet heath	10/07/2010
Knock Craggie	NC328054	roadside	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Salmon ladder	NH740980	composite	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC840414	flush	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011

Loch Airighe Mhor	NC690020	composite	16/07/2011
Strath Brora near Corris	NC691113	riverbank	07/07/2013
West Rearquhar	NH732931	roadside	09/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Achvaich	NH710941	riverbank	09/07/2013
Coirfrois Burn Pollie Hill	NC751152	stream	10/07/2013
Black Water	NC719177	streamside crag	10/07/2013
etc.			

NVC: M 8-11, 13, 15, 22, 37, 38; SM 19, 20; MG 12, 13

Triglochin maritima L. *Sea Arrowgrass*

hel 6

Salt marshes and salt-sprayed grassland. Frequent on the coast.

NC80 NC90 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Littleferry Loch Fleet	NH775960	salt marsh	11/07/2010
Maikle Kyle of Sutherland	NH595936	tidal riverbank	12/07/2010
Kyleside Walk Bonar Bridge	NH610913	tidal riverbank	12/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Carnegie Golf Course W	NH727873	salt marsh	10/05/2011
Balblair Loch Fleet	NH804973	salt marsh	08/05/2011
Littleferry Dunes	NH807957	sand dunes	08/05/2011
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Stream Saltmarsh	NH806888	salt marsh	20/05/2012
Skibo shore	NH726874	salt marsh	16/05/2012
Dornoch Common Good	NH801882	salt marsh	30/06/2013
Loch Fleet at Balblair	NC804975	salt marsh	07/07/2013
Dornoch Common Good	NH804881	salt marsh	29/06/2014
N Loch Fleet	NH800971	salt marsh	12/06/2015
Dornoch Common Good	NH802874	salt marsh	11/06/2015
Dornoch Common Good	NH800878	salt marsh	11/06/2015
Dornoch Common Good	NH803885	coastal grassland	11/06/2015

ZOSTERACEAE

Zostera marina L. *Eelgrass*

hel 6

Between half tide and about 4m below low-water mark. The plants that are uncovered at low tide tend to have narrower leaves. Local and rare. Loch Fleet (1888). Important winter food for wigeon and swans.

Plants formerly separated as *Zostera angustifolia* Rchb. are either a variety or a growth form of *Z. marina*. The correct varietal name for these plants is *Zostera marina* var. *stenophylla* Asch. & Graebn.

Loch Fleet		15/08/1897	E.S. Marshall det. BM
Loch Fleet	NH79	1897	Marshall, E.S.
Loch Fleet	NH79	1897-08-08	Marshall, E.S.
Loch Fleet	NH79	1897-08-08	Shoolbred, W.A.

NH79 NH89

Loch Fleet	NH77-97-	06/09/2000	Murray, M.E.
Loch Fleet	NH797948	06/09/2000	Murray, M.E.
Loch Fleet	NH768975	02/08/1999	BSBI Field Meeting
Mound Causeway	NH79	01/08/1999	BSBI
Loch Fleet E shore	NH805974	05/08/1999	BSBI Field Meeting
Coul Links	NH89	01/08/1999	BSBI

NVC: SM 1 (*Zostera* communities) have an important epicenter on the Dornoch, Cromarty and Moray Firths.

Zostera noltei Hornem. *Dwarf Eelgrass*
Zostera marina var. *angustifolia* Hornem.

hel 6



Zostera noltei Keith Hiscock

Between half tide and low tide in muddy estuaries. Local and scarce. Loch Fleet (1897).

Loch Fleet, Loch Stromore	NH89	08/08/1897	Shoolbred, W.A. NMW
Loch Fleet	NH79	15/08/1897	E.S. Marshall det. BM

NH78 NH79 NH89

Loch Evelix
Loch Fleet

NH740876

22/09/1987

E.Charter et al.
Charter, Elizabeth

NVC: SM 1

POTAMOGETONACEAE

Potamogeton natans L. *Broad-leaved Pondweed*

hyd 5

Lochs and lochans. Over the heathy tracts, it is replaced by *P. polygonifolius*. The floating leaves have an unmistakable hinge-like joint at junction of petiole. Widespread and common.

S of Forsinard	NC84	1883-08	Grant, J.
Loch Brora	NC80	1888-08-09	Grant, J.
Kildonan-Kinbrace	NC82	1907-08-16	Standen, R.S.
Loch Lundie, N end	NC80	1919-08-01	Wilmott, A.J.
Loch Beag na h-Airidhe	NC70	1919-08-14	Wilmott, A.J.
Brora, Rhalan	NC90	1949-07-09	Tod, W.A.
Brora, Rhalan	NC90	1949-07-11	Tod, W.A.
Loch Brora	NC80	1949-07-23	Tod, W.A.
Loch Brora	NC80	1949-08-14	Tod, W.A.
Dornoch+28/8.8	NH78	1957-07	Anthony, J.
An Urdh	NH642954	1963-07-20	Anthony, J.
Loch Sail an Ruchair	NC333148	1969-07	BSBI
Loch Sail an Ruathair	NC3314	1969-07-06	Duncan, U.K.
Loch Sail an Ruchair	NC333148	15/07/1969	U.K. Duncan
Loch Merkland		15/07/1973	A.G. Kenneth
Loch Brora		15/07/1975	U.K. Duncan
Loch Migdale		15/07/1975	U.K. Duncan
Loch Airighe Mhor		15/07/1976	M.J. Marshall
Loch Ailsh		15/07/1976	U.K. Duncan
Loch Merkland		1973-07	NCC
Loch Brora		1975-07	Anthony, J.
Loch Migdale		1975-07	Derek Ratcliffe
Loch Brora	NC8506	1975-08-23	Duncan, U.K.
Loch an Lagain, Bonar Br	NH6595	1975-08-24	Duncan, U.K.
Loch Migdale	NH6291	1975-08-24	Duncan, U.K.
Loch Ailsh		1976-07	BSBI
Loch Airighe Mhor		1976-07	Duncan, U.K.
Loch Ailsh, E side	NC3211	1976-07-30	Duncan, U.K.
Loch na Claise Moire	NC385051	1984	
Loch na Gaoithe	NC6600	1984	Charter, E.
VC107 East Sutherland	NC415188	1984	Charter, E.
Palm Loch	NC70	1984	Charter, E.
Loch na Saobhaidhe	NC60	1984	Charter, E.
Loch na Saobhaidhe	NC652016	1984	Charter, E.
Loch Achnamoine	NC83	1984	Charter, E.
Loch an Rasail	NC475086	1984	Charter, E.
Loch Tigh na Creige	NC60	1984	Charter, E.
Loch an Alaskie	NC478267	1984	Charter, E.
Loch a' Bhrochain	NC370030	1984	Charter, E.
Loch an Alaskie	NC4726	1984	Charter, E.
Loch Arichlinie	NC83	1984	Charter, E.
Lochan a' Choire	NC462133	1984	Charter, E.

Loch na Fuaralaich	NC487065	1984	Charter, E.
Lochan na Gaoithe	NC661006	1984	Charter, E.
Loch Buidhe	NH69	1984	Charter, E.
	NC368032	1984	Charter, E.
Loch Arichlinie	NC847350	1984	Charter, E.
Loch an Ulbhaidh	NC42	1984	Charter, E.
Beinn Rosail	NC74A	1987-05-25	Butler, J.K.
Loch Culaidh	NC863390	1987-06-29	Bell, S.L.;Dalton, A.
Loch Bad na h-Earba	NC765138	1987-07-03	Charter, E.;Sharpe, N.
Loch na Glaic	NC759132	1987-07-03	Charter, E.;Sharpe, N.
L. Dubh Cul na h-Amaite	NC758142	1987-07-03	Charter, E.;Sharpe, N.
Loch Grudaidh	NC744101	1987-07-04	Charter, E.;Sharpe, N.
	NC737116	1987-07-04	Charter, E.;Sharpe, N.
Loch Beannach	NC740113	1987-07-04	Charter, E.;Sharpe, N.
Loch Farlary	NC772050	1987-07-06	Charter, E. et al.
Loch Cracail Mor	NC627021	1987-07-07	Charter, E. et al.
Loch Laro	NH608994	1987-07-07	Charter, E. et al.
Loch Ascaig	NC850255	1987-07-08	Bell, S.L.;Dalton, A.
Loch an Lagain	NH659956	1987-07-08	Charter, E. et al.
Loch na Caillich	NC516082	1987-07-10	Charter, E. et al.
Loch Lunndaidh	NC785007	1987-07-14	Charter, E. et al.
Loch Airighe Bheg	NC703024	1987-07-15	Charter, E.;Warman, L.
Loch Aairighe Mhor	NC692022	1987-07-15	Dale, K.;Sharpe, N.
Loch Sail an Ruathair	NC334148	1987-07-16	Charter, E.;Dale, K.
Loch Carn nan Coubhairean	NC343174	1987-07-16	Warman, E.;Sharpe, N.
Suil a' Ghriama	NC411279	1987-07-17	Dale, K. et al.
Loch Strath Duchally	NC423268	1987-07-17	Dale, K. et al.
Loch Ulbhach Coire	NC379376	1987-07-23	Sharpe, N.
Loch a' Ghriama	NC391265	1987-07-24	Charter, E. et al.
Loch Brora	NC850080	1987-07-27	Charter, E. et al.
Loch Merkland	NC390315	1987-07-29	Charter, E. et al.
Loch Lucy	NC878394	1987-07-30	Bell, S.L.;Dalton, A.
Loch Fiag	NC447293	1987-08-06	Warman, E.;Sharpe, N.
Fionn Loch Beag	NC340228	1987-08-06	Charter, E.;Dale, K.
Gorm Loch Mor	NC320245	1987-08-07	Charter, E.;Dale, K.
Lochan Sgeireach	NC670155	1987-08-10	Bell, S.L.;Dale, K.
Loch Druim a' Chliabhain	NC810410	1987-08-10	Dalton, A.
Lochan Sgeireach	NC670151	1987-08-10	Bell, S.L.;Dale, K.
Loch Coire nam Mang	NC800405	1987-08-10	Sharpe, N.
Loch Beannach	NC685145	1987-08-10	Bell, S.L.;Dale, K.
Loch Gaineimh	NC798430	1987-08-11	Sharpe, N.;Dalton, A.
Loch Truderscaig	NC711328	1987-08-14	Warman, E.
Palm Loch	NC74A	1987-08-23	Butler, J.K.
Loch Rimsdale	NC759355	1987-08-24	Charter, E. et al.
Loch an Alltan Fhearna	NC750335	1987-08-25	Charter, E.
Loch Achnamoine	NC814320	1987-08-26	Dale, K.;Warman, E.
Loch na Gaineimh	NC767304	1987-08-26	Sharpe, N.
Beinn Rosail, nr	NC74A	1987-08-27	Reid, C.;Reid, A.
Loch Rosail	NC715401	1987-09-01	Bell, S.L.;Dalton, A.
Loch Craggie	NC625075	1987-09-02	Sharpe, N.
Loch Tigh na Creige	NC616093	1987-09-02	Charter, E.

Loch Beannach	NC600125	1987-09-04	Charter, E.;Sharpe, N.
	NC510242	1987-09-09	Warman, E.
Loch an Ulbhaidh	NC493227	1987-09-09	Charter, E.;Sharpe, N.
Loch an Staing	NC523188	1987-09-09	Dale, K.
Strath Tirry	NC508237	1987-09-09	Charter, E.
	NC508239	1987-09-09	Warman, E.
	NC507234	1987-09-09	Sharpe, N.
	NC507238	1987-09-09	Warman, E.
	NC504240	1987-09-09	Warman, E.
Loch an Fheoir	NC495238	1987-09-09	Charter, E.;Sharpe, N.
Loch na Capulich	NC524223	1987-09-10	Warman, E.
Loch an Fheoir	NC510259	1987-09-10	Dale, K.
	NC510257	1987-09-10	Dale, K.
	NC477013	1987-09-11	Charter, E.;Dale, K.
Loch Migdale	NH640908	1987-09-14	Charter, E. et al.
Loch na Fuaralachd	NC604163	1987-09-16	Dale, K.;Warman, E.
Loch as Airde	NH700902	1987-09-16	Charter, E.
Loch Buidhe	NH663983	1987-09-17	Dale, K. et al.
Loch a' Mheallain Leith	NC660172	1987-09-19	Sharpe, N.
Loch nam Breac Beaga	NC651187	1987-09-19	Sharpe, N.
Loch Muidhe	NC665052	1987-09-29	Warman, E.;Sharpe, N.
Little loch Rogart	NC722036	1987-09-29	Warman, E.;Sharpe, N.
	NC450014	1987-09-30	Warman, E.;Sharpe, N.
Loch Preas nan Sgiathanach	NC680090	1987-09-30	Warman, E.;Sharpe, N.
	NC580061	1987-10-01	
Loch Eileanach	NC483277	1988-06-21	Charter, E.;Gunn, I.
	NC466283	1988-06-21	Charter, E.
Loch Rosail	NC7140	1988-06-28	White, R.G.;White, P.H.
Cnoc a' Bhaid Bhain	NC41J	1988-07-20	Butler, J.K.;Marshall, M.J.
Loch na Gaineimh	NC7012	1988-07-30	BSBI Field Meeting
Threestone hill	NC74W	1988-08-03	Kay, G.M.;Rich, T.C.G.
L.Caillach(SRN3113)	NC50	1993-08-01	Butler, J.K.;Murray, M.
Green Loch	NC73	1998-07-01	Rothero, G.
Glen Cassley	NC41	1999-07-07	Rothero, G.
Ben Griam Mor	NC83	1999-08-04	BSBI
Little Rogart Loch	NC70	1999-08-04	BSBI
Loch Dola & L Craggie	NC60	1999-08-05	BSBI
Loch a Gorm Choire	NC43	1999-08-06	BSBI
Mound Alderwood	NH79	1999-08-06	BSBI
Strath Brora south side	NC80	2003-06-01	Butler, J.K.;Butler, S.I.
Beinn Rosail East	NC74A	2003-06-28	Evans, P.A. et al.
Beinn Rosail East	NC74A	2003-06-28	Evans, P.A. et al.
Threestone Hill	NC74W	2004-06-15	Evans, P.A.;Evans, I.M.
Threestone Hill	NC74W	2004-06-15	Evans, P.A.;Evans, I.M.
Loch Skibo	NH78J	2004-07-07	BSBI Field Meeting
NC30 NC31 NC32 NC33 NC40 NC42 NC43 NC50 NC51 NC52 NC60 NC70 NC73 NC74 NC80			
NC82 NC83 NC84 NC90 NH59 NH68 NH69 NH78 NH79 NH89			
Garvault Hotel	NC782386	hamlet	11/05/2011
Lothmore gravel pit	NC970106	pond	12/05/2011

The Alders The Mound	NH759985	woodland	13/05/2011
Auchintoul	NH518992	riverbank	12/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Ospisdale House	NH713897	parkland	11/07/2013

NVC: A 2, 7, 8-15, 19, 20, 24; S 4, 8, 9, 13, 14, 15, 19

[Potamogeton x gessnacensis G. Fisch. = P. natans x P. polygonifolius]

Recorded from Easter Ross.

[Potamogeton x sparganiifolius = P. natans x P. gramineus Ribbon-leaved Pondweed]

Recorded from the Moray coast.

Potamogeton polygonifolius Pourr. Bog Pondweed

hyd 5

Peaty pools and rivulets in bogs and heathland. Acid ponds, streams, ditches, wet sphagnum bogs. Abundant where it is found. Leaves opaque and mostly floating with cordate or rounded bases. Told from *P. natans* by the lack of that species' distinct hinge-like joint at the junction with the petiole. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH68 NH69 NH78 NH79 NH89

NVC: A 7, 11, 13, 24; M 1, 4, 8, 21, 29, 30, 35; S 4, 8, 9, 12, 19, 27

[Potamogeton x lanceolatifolius (Tiselius) C.D. Preston = P. gramineus x P. polygonifolius]

Recorded from Easternness.

[Potamogeton lucens L. Shining Pondweed]

hyd 6

All leaves petiolate, and more than 12cm, petiole unwinged near base.

NVC: A 2, 11, 13, 15; S 8

Recorded from Easternness and the Moray coast.

Potamogeton x angustifolius J. Presl. = P. lucens x P. gramineus Long-leaved Pondweed hyd 6

NC60

Potamogeton gramineus L. Various-leaved Pondweed

hyd 6

Lochs and lochans. Narrow leaves (5-12mm wide) and small stipules (1-2.5cm). Widespread and occasional.

Loch Brora		15/07/1975	U.K. Duncan det. J.E. Dandy
Loch an Lagain		15/07/1975	U.K. Duncan det. J.E. Dandy
Coul Links Embo		15/07/1975	D.S. Ranwell
Loch Tigh na Creige		15/07/1976	M.J. Marshall
Loch Airidhe Bheg		15/07/1976	M.J. Marshall
Loch Arichlinie		15/07/1984	E. Charter
Coul Links	NH89	1975-07-31	Ranwell, D.S.
Loch Brora	NC8506	1975-08-23	Duncan, U.K.
Loch an Lagain	NH6595	1975-08-24	Duncan, U.K.
Loch Airidhe Bheg		1976-07	Webster, M.McC.
Loch Buidhe	NH69	1984	Charter, E.
Loch Craggie	NC60	1984	Charter, E.
Loch Ascaig	NC82	1984	Charter, E.
Loch Arichlinie	NC847350	1984	Charter, E.
Loch Tigh na Creige	NC60	1984	Charter, E.
Loch na Saobhaidhe	NC60	1984	Charter, E.
Loch Achnamoine	NC83	1984	Charter, E.
Loch na Saobhaidhe	NC652016	1984	Charter, E.
Loch Arichlinie	NC847350	1984-07	Webster, M.McC.
Loch Arichlinie	NC847350	1984-08	Charter, E.
Loch Grudaiddh	NC744101	1987-07-04	Charter, E.; Sharpe, N.
Loch an Lagain	NH659956	1987-07-08	Charter, E. et al.
Loch Aairighe Mhor	NC692022	1987-07-15	Dale, K.; Sharpe, N.
Loch Airighe Bheg	NC703024	1987-07-15	Charter, E.; Warman, L.
Loch an Tubairnaich	NC875089	1987-07-20	Dale, K. et al.
Loch Brora	NC850080	1987-07-27	Charter, E.
Loch Brora	NC850080	1987-07-27	Charter, E. et al.
Loch Truderscaig	NC711328	1987-08-14	Warman, E.
Badanloch	NC759355	1987-08-24	Charter, E. et al.
Loch Achnamoine	NC814320	1987-08-26	Dale, K.; Warman, E.
Loch Dola	NC606080	1987-09-02	Charter, E.
Loch Migdale	NH640908	1987-09-14	Charter, E. et al.
Coul Links	NH89	1999-08-01	BSBI
Loch Achnamoine	NC809324	1999-08-04	Dines, T.D.

NC60 NC70 NC71 NC73 NC80 NC82 NC83 NH69 NH89

NVC: A 10, 11, 13, 14, 24

[*Potamogeton x nericius* Hagstr. = *P. alpinus* x *P. gramineus*]

Recorded from the Moray coast.

Potamogeton x nitens Weber = *P. gramineus* x *P. perfoliatus* *Bright-leaved Pondweed* hyd 6

Lochs and lochans. Local and rare.

NC60 NC70 NH69

Loch Lannsaidh	NH737945	1987-08-11	Charter, E.;Warman, L.
Loch Laiogh	NH731960	1987-08-11	Charter, E.;Warman, L.
Loch Lunndaigh	NC785007	1987-07-14	Charter, E. et al.
Loch Buidhe	NH660985	1984-08	Charter, E.
Loch Salachaidh	NC760037	1987-07-09	Charter, E. et al.
Loch Migdale	NH640908	1987-09-14	Charter, E.
Loch Migdale	NH640908	1987-09-14	Charter, E. et al.
Loch Tigh na Creige	NC616093	1987-09-02	Charter, E. et al.
Loch Lunndaigh	NC785006	1987-07-14	Charter, E.

Potamogeton alpinus Balb. *Red Pondweed*

hyd 6

Lochans. Leaves narrowed, not clasping; stem round, all leaves with more than 7 veins. Widespread but uncommon.

Glass Hill black Water	NC815164	15/07/1984	E. Charter
Srath na Frithe	NC838274	15/07/1984	E. Charter
Loch Buidhe	NH660985	15/07/1984	E. Charter
Srath na Frithe	NC838274	1984-07	Marshall, M.
Glass Hil	NC815164	1984-07	Kenneth, Archibald Graham
Loch Buidhe	NH660985	1984-07	Webster, M.McC.
Srath na Frithe	NC838274	1984-08	Charter, E.
Brora, Glass Hill burn	NC815164	1984-08	Charter, E.
Loch Farlary	NC772050	1987-07-06	Charter, E. et al.
Lochan Iain Bhuidhe	NC689012	1987-07-15	Charter, E.;Warman, L.
Loch Brora	NC850080	1987-07-27	Charter, E. et al.
Loch Lannsaidh	NH737945	1987-08-11	Charter, E.
Loch Dola	NC606080	1987-09-02	Charter, E. et al.
Loch Migdale	NH640908	1987-09-14	Charter, E.
Loch Saine	NH696899	1987-09-16	Charter, E.
Loch Coire na Bruaiche	NC636165	1987-09-19	Sharpe, N.
Loch Evelix	NH740876	1987-09-22	Charter, E. et al
VC107 East Sutherland	NC722036	1987-09-29	Warman, E.;Sharpe, N.
Clais Dhubh	NC731192	1988-07-03	Butler, J.K et al.
Little Rogart Loch	NC70	1999-08-04	BSBI

NC31 NC60 NC61 NC70 NC80 NC81 NC82 NH68 NH69 NH78 NH79

NVC: A 2, 11, 13

Potamogeton praelongus Wulfen *Long-stalked Pondweed*

hyd 5

Potamogeton salicifolius auct., non Wolfg.

In water at least 1m deep (it can be dominant at depths below 1.5-3m), often found with *P. perfoliatus*. Some leaves rounded, more or less clasping, stipules conspicuous (>1cm), leaves > 10cm. Local and rare.

Loch Sail an Ruchair	NC333148	15/07/1969	U.K. Duncan
Loch Ailsh		15/07/1976	U.K. Duncan
Loch Craggie Lairg	NC629070	15/08/1984	E. Charter
Loch Sail an Ruthair	NC31	1969	Duncan, U.K.

Loch Sail an Ruchair	NC333148	1969-07	Kirby, J.E.
Loch Sail an Ruathair	NC3314	1969-07-06	Duncan, U.K.
Loch Ailsh		1976-07	Hedges, I.
Loch Ailsh, E side	NC3211	1976-07-30	Duncan, U.K.
Loch Craggie	NC60	1984	Charter, E.
Loch Craggie Lairg		1984-07	Derek Ratcliffe
Loch Craggie	NC6207	1984-08	Charter, E.
Loch Craggie Lairg	NC629070	1984-08-15	Marshall, M.J.
Loch Lunndaiddh	NC785007	1987-07-14	Charter, E. et al.
Loch Airighe Mhor	NC692022	1987-07-15	Dale, K.; Sharpe, N.
Loch an Tubairnaich	NC875089	1987-07-20	Dale, K. et al
Loch Coire nam Mang	NC800405	1987-08-10	Sharpe, N.
Loch Lannsaidh	NH737945	1987-08-11	Charter, E.
Loch Craggie	NC625075	1987-09-02	Sharpe, N.

NC31 NC60 NC70 NC80 NH79

NVC: A 11, 13

Potamogeton perfoliatus L. *Perfoliate Pondweed*

hyd 6

In deep water in lochs. Stipules inconspicuous, stem round, leaves more than 2cm wide. Widespread and locally frequent.

Bonar Bridge, above	NH69	1842-07	Syme, J.T.I.B.
Bonar Bridge		15/07/1942	J. Syme
Loch Sail an Ruchair		15/07/1969	U.K. Duncan
Loch Brora		15/07/1975	U.K. Duncan
Loch an Lagain		15/07/1975	U.K. Duncan
Loch Tigh na Creige	NC60	15/07/1976	M.J. Marshall
Loch Ailsh		15/07/1976	U.K. Duncan
Loch Sail an Ruchair		1969-07	Marshall, M.J.
Loch Sail an Ruathair	NC3314	1969-07-06	Duncan, U.K.
Loch an Lagain		1975-07	Kenneth, Archibald Graham
Loch Brora		1975-07	Kenneth, Archibald Graham
Loch Brora	NC8506	1975-08-23	Duncan, U.K.
Loch an Lagain	NH6595	1975-08-24	Duncan, U.K.
Loch Migdale	NH6291	1975-08-24	Duncan, U.K.
Loch Tigh na Creige	NC60	1976-07	Marshall, Edward Shearburn
Loch Ailsh	NC3211	1976-07	Hall, P.M.
Loch Ailsh, E side	NC3211	1976-07-30	Duncan, U.K.
Loch Migdale	NH6391	1979-07-18	Webster, M.McC.
Loch Achnamoine	NC83	1984	Charter, E.
Loch Craggie	NC60	1984	Charter, E.
Palm Loch	NC70	1984	Charter, E.
Loch Ascaig	NC82	1984	Charter, E.
Loch Arichlinie	NC847350	1984	Charter, E.
Loch Arichlinie	NC83	1984	Charter, E.
Loch Buidhe	NH69	1984	Charter, E.
Loch Dola	NC60	1984	Charter, E.
Loch Tigh na Creige	NC60	1984	Charter, E.

Loch Bad na h-Earba	NC765138	1987-07-03	Charter, E.;Sharpe, N.
Lochan Dubh	NC746122	1987-07-04	Charter, E.;Sharpe, N.
Loch Grudaiddh	NC744101	1987-07-04	Charter, E.;Sharpe, N.
Loch Cracail Mor	NC627021	1987-07-07	Charter, E. et al.
Loch Laro	NH608994	1987-07-07	Charter, E. et al.
Loch an Lagain	NH659956	1987-07-08	Charter, E. et al.
Loch Ascaig	NC850255	1987-07-08	Bell, S.L.;Dalton, A.
Loch Lunndaidh	NC785007	1987-07-14	Charter, E. et al.
Loch Sail an Ruathair	NC334148	1987-07-16	Charter, E.;Dale, K.
Loch Brora	NC850080	1987-07-27	Charter, E. et al.
Loch Coire nam Mang	NC800405	1987-08-10	Sharpe, N.
Loch Lannsaidh	NH737945	1987-08-11	Charter, E.;Warman, L.
Loch Truderscaig	NC711328	1987-08-14	Warman, E.
Badanloch	NC759355	1987-08-24	Charter, E. et al.
Loch Tigh na Creige	NC616093	1987-09-02	Charter, E. et al.
Loch Dola	NC606080	1987-09-02	Charter, E. et al.
Loch Craggie	NC625075	1987-09-02	Sharpe, N.
Loch Beannach	NC600125	1987-09-04	Charter, E.;Sharpe, N.
Loch Migdale	NH640908	1987-09-14	Charter, E. et al.
Loch Buidhe	NH663983	1987-09-17	Dale, K. et al.
Glas-loch Beag	NC660201	1987-09-19	Warman, E.
Loch nam Breac Beaga	NC651187	1987-09-19	Sharpe, N.
Loch Evelix	NH740876	1987-09-22	Charter, E. et al.
Loch Ospisdale	NH731889	1987-09-22	Charter, E. et al.
Loch na Gaineimh	NC7012	1988-07-30	BSBI Field Meeting
Ben Griam Mor	NC83	1999-08-04	BSBI
Loch Dola & L Craggie	NC60	1999-08-05	BSBI

NC31 NC60 NC61 NC62 NC70 NC71 NC73 NC74 NC80 NC82 NC83 NH69 NH78 NH79

NVC: A 8, 10, 11, 12, 13, 15, 18, 23; S 8

[Potamogeton rutilus Wolfg. *Shetland Pondweed*]

hyd 6

Recorded from Easternness and the Moray coast.

Potamogeton obtusifolius Mert. & W.D.J. Koch *Blunt-leaved Pondweed*

hyd 6

Lochs. Broad, grass-like leaves forming fan-like sprays; stipules not fused into a tube around the stem. Local and rare.

Loch Dola Lairg	NC6007	1984-07	J. Anthony
Loch Dola	NC6007	1984-08	Charter, E.
Little Loch Shin	NC580061	1987-07-21	Charter, E. et al.
Loch Dola	NC606080	1987-09-02	Charter, E. et al.
Loch Saine	NH696899	1987-09-16	Charter, E.
Loch Saine	NH696899	1987-09-16	Charter, E.
Loch Ospisdale	NH731889	1987-09-22	Charter, E. et al.
Loch Muidhe	NC662050	1987-09-29	Warman, E.;Sharpe, N.

NC60 NH68 NH78

NVC: A 4, 7, 8, 10, 11, 13, 23, 24

[Potamogeton pusillus L. Lesser Pondweed] hyd 6
 Potamogeton trichoides auct., non Cham. & Schldl.
 Potamogeton panormitanus Biv.
 Potamogeton friesii auct., non Rupr.

Uncommon but probably overlooked and likely to be mis-recorded for *P. berchtoldii* (see below). In *P. pusillus* the stipule is fused into a tube, not merely wrapped round the adjacent leaf base. Leaves abruptly mucronate, between 1.0mm and 1.8mm wide, not rigid.

NVC: A 8,11

Recorded from Easternness and the Moray coast.

Potamogeton berchtoldii Fieber Small Pondweed hyd 6
 Potamogeton pusillus auct., non L.
 Potamogeton friesii auct., non Rupr.
 Potamogeton trinervius sensu Dandy, pro parte, non G. Fischer

Lochs. Stipules not fused into a tube but forming a kind of long, clasping ligule, wrapped around the leaf base but open right to the base, leaves more than 1mm wide (often closer to 2mm), fruits not warty near base. Under-recorded in the past, being taken for *P. pusillus* where the base of the ligule is fused into a closed tube. Widespread and occasional.

Loch an Lagain	NH6595	15/07/1975	U.K. Duncan det. J.E. Dandy
Loch Arichlinie	NC8434	15/08/1984	E. Charter
Loch Askaig	NC8425	15/08/1984	E. Charter
Loch an Lagain	NH6595	1975-07	Marshall, E et al.
Loch an Lagain	NH6595	1975-08-24	Duncan, U.K.
Loch Arichlinie	NC847350	1984	Charter, E.
Loch Ascaig	NC8425	1984-08	Charter, E.
Loch Arichlinie	NC8434	1984-08	Charter, E.
Loch Arichlinie	NC8434	1984-08-15	Marshall, M.J.
Loch Askaig	NC8425	1984-08-15	Butler, J.K.
Loch an Lagain	NH659956	1987-07-08	Charter, E. et al.
Loch Merkland	NC390315	1987-07-29	Charter, E. et al.
Loch Dola	NC606080	1987-09-02	Charter, E. et al.
Loch Migdale	NH640908	1987-09-14	Charter, E. et al.
Loch-an-treel	NH778899	1987-09-16	Charter, E.
Loch Ospisdale	NH731889	1987-09-22	Charter, E. et al.
Loch Evelix	NH740876	1987-09-22	Charter, E. et al.
Little Loch Rogart	NC722036	1987-09-29	Warman, E.;Sharpe, N.
Little Loch Shin	NC580061	1987-10-01	

NC31 NC33 NC50 NC60 NC70 NC82 NC83 NH69 NH79

NVC: A 7, 8, 11, 13, 23, 24

Potamogeton crispus L. Curled Pondweed hyd 5

NVC: A 1, 3, 8, 11, 12, 21

RUPPIACEAE

Ruppia maritima L. *Beaked Tasselweed* hyd 5

Estuarine salt marshes. Local and uncommon. Littleferry, Golspie (1962). Important as food for over-wintering wigeon.

NH78 NH79 NH89

Little Ferry	NH89	1962-07	Wilkens, G.
Balblair Wood	NH89	1962-07-07	Summerhayes, V.S.;Hunt, P.F.
Little Ferry	NH89	1962-07-13	Webster, M.McC.
Loch Evelix, nr	NH7387	1976-08	Marshall, M.
Loch Evelix	NH740874	1987	Charter, E.
Loch Evelix	NH740876	1987-09-22	Charter, E. et al.
Mound Causeway	NH79	1999-08-01	BSBI
Coul Links	NH89	1999-08-01	BSBI
The Mound, S of	NH768974	1999-08-02	BSBI Field Meeting
The Mound, N of	NH770980	1999-08-02	Maxwell, S.A.
Balblair	NH803974	1999-08-02	Goater, B.
Loch Fleet	NH797948	2000-09-06	Murray, M.E.
Loch Ospisdale	NH731889	2004-07-07	BSBI

NVC: SM 2 (*Ruppia maritima* salt-marsh community) has one of its most important epicenters in the Dornoch, Cromarty and Moray Firths.

NARTHECIACEAE

Narthecium ossifragum (L.) Huds. *Bog Asphodel* hs 7
Anthericum ossifragum L.

Acid bogs, wet heath and damp peaty places. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: CG 11; U 5, 6, 7; M 1, 2, 6, 9-19, 21, 23-25, 29,31; H 10

MELANTHIACEAE

[Paris quadrifolia L. *Herb-paris*] grh 5

Sheltered woods, local and rare. An ancient woodland indicator, and one of the most exciting woodland plants to find in flower, partly because it is rare, but mainly because it is so strange.

NVC: W 12

Recorded from Easternness and the Moray coast.

ALSTROMERIACEAE

Alstroemeria aurea Graham *Peruvian Lily*
Alstroemeria aurantiaca D. Don

• gb 6

This is the common patch-forming, orange-flowered lily of herbaceous borders. It persists as an outcast, and can form substantial clumps when conditions are good for it. Highly invasive in gardens, and hence often thrown out.

Rosehall	NC470021	village	12/07/2010
Back Road Golspie	NC829000	council houses	08/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Wester Drumlich	NH607934	hamlet	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Invercassley Stores Rosehall	NC470020	waste ground	28/06/2014
Rosehall	NC470021	village	10/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015

COLCHICACEAE

Colchicum autumnale L. *Meadow Saffron*

• gt 9

One of the classic ancient woodland plants in southern Britain, planted on many of the larger estates and sometimes found as a garden escape.

Riverside Brora	NC905040	semi-detached	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Duke Street Golspie	NC838001	old walls	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012

Seaforth Road Golspie	NH829999	council houses	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012

Also recorded from Easternness and the Moray coast.

LILIACEAE

[**Gagea lutea** (L.) Ker-Gawl. *Yellow Star-of-Bethlehem*] gb 3
Ornithogalum luteum L.

Damp woods on calcareous soils. Very local and rare, but so early in its flowering that it might be under-recorded.

Recorded from Easternness and the Moray coast.

Tricyrtis formosana Baker *Toad Lily* • g 6

An exotic-looking perennial, seldom seen in Sutherland.

Biblical Gardens Golspie	NC837001	garden	05/07/2013
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Erythronium dens-canis L. *Dog's-tooth-violet* • gb 6

Very rare in damp grass, as a relic of cultivation.

Tulloch Road Bonar Bridge	NH608921	suburbia	10/04/2010
Clashban	NH643964	hamlet	12/05/2015

[**Tulipa sylvestris** L. *Wild Tulip*] • gb 4

Plantations, churchyards, parks and orchards, an introduced species usually found near villages. Local, rare and often sterile.

Recorded from the Moray coast.

Tulipa gesneriana L. *Garden Tulip* • gb 4

Waste ground in towns and villages, on banks and in abandoned gardens. Occasional in churchyards throughout; planted on graves, and sometimes long persistent.

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010

Brora E	NC909042	council houses	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Park Court Brora	NC904040	bungalows	08/05/2011
Bonar Bridge	NH610914	village	07/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Uppat Place Brora	NC903034	council houses	17/05/2012
Helmsdale	ND026154	village	05/05/2013
Ord of Caithness	ND055172	coastal heath	05/05/2013
Rosehall	NC470020	village	06/05/2013
Main Street Brora	NC903039	street	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Embo	NH817928	village	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Clashmore	NH747895	village	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rosehall	NC470021	village	10/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Fanich	NC879037	hamlet	11/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Golspie	NC832000	village	08/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Lochside Achentoul Lodge	NC872355	hamlet	09/05/2015
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015
Bonar Bridge	NH611917	village	08/05/2015
Fourpenny Embo	NH802940	hamlet	08/05/2015
Embo	NH816928	village	08/05/2015
Doll	NC884032	hamlet	11/05/2015
Camore Crescent Camore	NH777903	council houses	08/05/2015
Lairg	NC585063	village	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Ardachu	NC677036	hamlet	10/05/2015
Pittentrail	NC726019	village	10/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015
Golspie Big Burn	NC840005	woodland	10/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
Smithy Cottage Balvraid	NH771954	hamlet	17/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Lairg	NC584063	village	13/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Achnaluachrach	NC679098	hamlet	13/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Tarvie Cottage Balvraid	NH760951	hamlet	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Clashmore	NH745895	hamlet	17/05/2015

Fritillaria meleagris L. *Fritillary* ● gb 4

An uncommon garden plant in vc. 107, occasionally naturalized in damp grass.

Dunrobin Castle	NC851008	parkland	17/05/2012
Clashmore	NH747895	village	08/05/2013
Clashban	NH643964	hamlet	12/05/2015

Fritillaria imperialis L. *Crown Imperial* ● gb 4

Statuesque garden plants with orange flowers and leaves in whorls, occasionally planted outside gardens on banks and ditches, typically in partial shade. Long persistent in abandoned gardens.

Dornoch Academy	NH789899	roadside	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Garvault Hotel	NC782386	hamlet	11/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Lindsay Street Golspie	NH830998	council houses	14/06/2015

Fritillaria imperialis 'Rubra'

Dunrobin Castle	NC851008	parkland	17/05/2012
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Lilium martagon L. *Martagon Lily* ● gb 6

This is the purple-flowered Turks'-cap lily. Our *Lilium* are all garden escapes. Rare outside gardens.

Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Culgower House	NC976119	parkland	17/05/2012
Skibo Castle S front	NH737890	parkland	11/07/2013

Lilium pyrenaicum Gouan *Pyrenean Lily* ● gb 5

This is the yellow-flowered Turks'-cap lily, which is a popular cottage garden plant in lowland Sutherland. Occasional and long-persistent outside gardens on banks, by abandoned crofts and in open woods.

NC80

Clashmore	NH747895	village	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Rosehall	NC470021	village	12/07/2010
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Garvault Hotel	NC781386	waste ground	20/06/2011
Embo	NH817928	village	23/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Camore Gardens Camore	NH777903	council houses	30/06/2013
Upper Gartymore	ND015150	hamlet	01/07/2013
Navidale	ND034168	hamlet	01/07/2013
Rosehall	NC470222	village	09/07/2013
Sleastery	NH643963	croft	09/07/2013
West Helmsdale	ND020157	hamlet	27/06/2014
Hilton of Embo W	NH796913	hamlet	21/06/2015
Dalchalm	NC909054	gravel	19/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Victoria Crescent Brora	NC907042	council houses	14/05/2015

Lilium candidum L. *Madonna Lily*

• gb 6

Snowy white flowers, with elliptic (not linear) leaves distinguish this species.

Swordale Crescent Bonar	NH611915	council houses	10/07/2010
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Lilium regale E.H. Wilson. *Royal Lily*

• gb 6

Gardeners in East Sutherland love their lilies, perhaps because lily beetle is less of a problem this far north. It is not uncommon to find front gardens brimming with a bewildering variety of hybrids and cultivars. Most of these never escape and they are far too valuable ever to be thrown out.

Golf Road Helmsdale	ND024158	bungalows	07/09/2012
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Lilium x hollandicum Woodcock & Stream *Orange Lily*

• gb 6

These big orange lilies have erect cup-shaped flowers. They are rarely seen outside gardens.

Rockview Place Helmsdale	ND031153	council houses	07/09/2012
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ORCHIDACEAE

Neottia nidus-avis (L.) Rich. *Bird's-nest Orchid*

g 6

Ophrys nidus-avis L.

Shady woods, chiefly of beech or hazel, among the decaying leaves. Local and rare.

Torbreck	NC703039	08/06/1978	M.J. Marshall
Big Burn Golspie	NC830010	18/07/1979	M.J. Marshall
Mound Rock	NH780980	15/06/1983	C. Lawson
Mound Rock	NH780980	15/06/1983	C. Lawson

NVC: W 12

Neottia ovata (L.) Bluff & Fingerh. *Common Twayblade*

g 6

Listera ovata (L.) R. Br

Ophrys ovata L.

Dune slacks and damp shady pastures in the lowlands. Local and rare on the coast.

NH59 NH78 NH88 NH89

Embo Links	NH816932	dune slacks	11/07/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Dornoch Airfield	NH801883	dune grassland	19/06/2011
Embo dune slacks	NH816931	dune slacks	23/06/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Dornoch Wind Sock	NH800883	dune slacks	30/06/2013
former caravan park Hilton	NH807915	grassland	04/07/2013
Hilton of Embo	NH807915	grassland	29/06/2014
Dornoch Common Good	NH805883	stable dunes	29/06/2014
Dornoch Common Good	NH804885	dune grassland	29/06/2014
Embo Dunes	NH816932	dune slacks	11/06/2015

NVC: MG 5; W 8,12; SD 8

Neottia cordata (L.) Rich. *Lesser Twayblade*

g 6

Listera cordata (L.) R. Br.

On heathland, typically hidden beneath the heather, and in open birch woodland and pine plantations. Widespread and locally frequent, but requires effort to find it.

The Ord Lairg	NC573057	15/06/1973	J.E. Kirby
Ben Hee		15/07/1973	A.G. Kenneth
Harriet Plantation Badninish	NH760936	15/07/1975	P.G. Wynne
Ferry Wood	NC5760 0650	2008-08-16	Weston, Andrew
Allt Doir' a Mheathais	NC567 22414	2010-08-18	Waddell, Jeff
Meall Odhar	NC5729 2137	2010-08-18	Waddell, Jeff
Cnoc na Doire	NC5513 2200	2012-07-19	Waddell, Jeff;Gunn, Derry
Lub Ruadh Plantation	NC5593 2084	2012-07-19	Waddell, Jeff;Gunn, Derry
Druim na Capulich	NC5332 2332	2012-07-19	Waddell, Jeff;Gunn, Derry
Dalchork Forest, research	NC6014 1402	2012-09-28	Waddell, Jeff
Allt Doir' a Mheathais	NC56720 24140	2010-08-18	Waddell, Jeff
Allt Belthe	NC38200 35500	2010-07-27	Rich, T. et al.
Creag na h-Uidhe	NC38486 36159	2010-07-27	Jannink, M. et al.

NC31 NC40 NC41 NC42 NC43 NC50 NC52 NC60 NC62 NC70 NC72 NC73 NC74 NC80 NC81
NC82 NC83 NC84 NC91 NC92 NC93 ND01 NH69 NH78 NH79 NH89

Sallachy Loch Shin	NC555073	birch wood	13/07/2010	
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010	
Glen Loth	NC945111	dry heath	08/05/2011	
Creag na h-Uidhe	NC384361	upland heath	27/07/2010	Mark Jannink
Mound Rock	NH770980	composite	11/07/2011	
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011	
Allt Coire a Chruiteir	NC400341	wet heath	13/07/2011	
Loch Feur	NC370310	wet heath	13/07/2011	
Doire Dubh	NC360320	composite	13/07/2011	
Meallan Liath Mor	NC400320	composite	13/07/2011	
Spinningdale Bog SSSI	NH669905	bog	14/07/2011	
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011	
Garvault Hotel	NC799390	wet heath	15/07/2011	
Loch Airighe Mhor	NC690020	composite	16/07/2011	
Loch Airighe Mhor	NC680020	composite	16/07/2011	
Inchcape	NC690030	composite	16/07/2011	
Loch Airighe Mhor	NC690020	composite	16/07/2011	
Migdale Woods	NH64890	pine woods	08/09/2012	
Balblair Wood	NH81309779	pine woods	11/07/2012	Harle & Young

NVC: W 18, 19; M 19; H 12, 16, 21, 22

Hammarbya paludosa (L.) Kuntze *Bog Orchid*

g 6



Hammarbya paludosa dk-orkideer.dk

On wet *Sphagnum* in bogs and on moors. Local and always hard to find.

Oykel Bridge	NC38-00-	15/07/1833	Graham, Prof R.
East Sutherland	NC5--1--	15/07/1950	Anon.
Lairg	NC58-06 -	15/07/1957	Hedge, Mr I.C.
E of Torrish	NC97-18-	15/07/1962	M. McC. Webster
Spinningdale	NH666905	01/09/1968	Ratcliffe, Dr D.A.
E of Loch Craggie	NC62-07-	15/07/1976	M.J. Marshall
Glen Cassley	NC354209	10/07/1998	Rothero, Mr G.P.
Glen Fiag	NC469208	29/06/1998	Rothero, Mr G.P.

NC30 NC32 NC42 NC50 NC51 NC60 NC91 NH49 NH59 NH69

Spinningdale Bog SSSI	NH667907	valley mire	10/07/2010
Loch Airighe Mhor	NC688022	bog	16/07/2011
Loch Airighe Mhor	NC696027	spring	16/07/2011

NVC: M 21

Corallorhiza trifida Chatel. *Coralroot Orchid*

g 6

Damp peaty or mossy ground under trees or shrubs in woods scrub and dune slacks. Very local and rare.

Mound Alderwoods	NH760980	05/07/1979	M.J. Marshall
Coul Links Embo	NH810950	15/05/1988	J.K. Butler

NH79 NH89

Spinningdale Bog SSSI	NH667907	valley fen	10/07/2010
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Goodyera repens (L.) R. Br. *Creeping Lady's-tresses*

g 6



Goodyera repens Zdeněk Podešva

On bare ground beneath pine or birch in woodland. Local and uncommon.

Golspie		15/07/1893	Grant, Mr J.F.
Littleferry		15/07/1897	W.A. Shoolbred
Balblair		15/07/1897	E.S. Marshall
The Mound		15/08/1902	H.A. Riddelsdale
The Mound		15/08/1907	R.S. Standen
Golspie		07/07/1925	Vachell, E. NMW
Migdale		15/07/1956	John Anthony
Littleferry		15/07/1958	John Anthony
Balblair		15/07/1958	John Anthony
Clashmore		15/07/1958	John Anthony
Migdale Woods	NH64-90-	15/07/1977	Derek Ratcliffe

Balblair Wood NH814978 05/07/1996 Tyler, Mr J.P.

NC41 NC50 NC80 NH59 NH69 NH78 NH79 NH89

Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Balblair Wood Loch Fleet	NH802974	mossy pine wood	10/07/2011
Ravens Rock Gorge	NC498011	woodland	12/07/2011
Migdale Woods	NH64890 2	pine woods	08/09/2012
Camore Wood	NH766887	pine plantation	11/07/2012 Harle & Young
Clynelish Muir	NC887048	dry heath	25/05/2013 Robin Ward
Balblair Wood	NC801974	conifer plantation	07/07/2013

NVC: W 17, 18

Recorded from the following hectares within Balblair Wood in July 2012 by Brian Harle and Gordon Young

NH 806976, NH 807977, NH 808978, NH 809978, NH 810978, NH 811977, NH 811978
NH 813977, NH 814976

Platanthera chlorantha (Custer) Rchb. *Greater Butterfly-orchid* g 5
Habenaria chloroleuca Ridley
Orchis chlorantha Custer
X Pseudanthera breadalbanensis McKean

Wet pastures. Local and rare. The big pollinia (3-4mm) are converging towards their tips (2mm and parallel in *P. bifolia*).

NC42 NH69 NH78

NVC: MG 5; W 8

Platanthera bifolia (L.) Rich. *Lesser Butterfly-orchid* g 5
Habenaria bifolia
Orchis bifolia L.

Wet pastures. Widespread but only locally frequent. Here is what Robin Ward wrote to me on 30 May 2013:

“There have been extremely variable numbers of *Platanthera bifolia* appearing around Brora in the last six years. There are two local fields which have had brilliant numbers of them appearing during the time Sally and I have lived here. In 'Sally's Field', at NC 891 052, the peak year was 2008 = more than 2,000! One year later the figure was 0! By 2011 it was back to over 1,000. In 2012 it was just 67. In 'David's Field', at NC 903 045, the peak year was 2011 = more than 2,000! In 2012 it was 'only' about 500. Sally & I, and LBO expert Liz Lavery, believe that the answer is probably to do with grazing pressure. Too little and the grass shades out the orchids. Too much and they eat/trample/fertilise them to death?”

Mick Crawley discovered a superb new site at Hilton of Embo in July 2013, on a former caravan park. When the site was in use, the grass would have been kept very short by repeated mowing

through the growing season. The owner is now unable to run the site and the previously suppressed plants have sprung up and blossomed magnificently. There were nor than 300 flowering spikes on 4 July 2013, growing in a curious plant community, reminiscent of a dune slack, with *Agrostis capillaris* o, *Anthoxanthum odoratum* f, *Bellis perennis* f, *Calluna vulgaris* lf, *Carex flacca* d, *Dactylorhiza maculata* o, *Dactylorhiza purpurella* o, *Erica tetralix* o, *Geranium pratense* o, *Gymnadenia borealis* o, *Hypochaeris radicata* f, *Koeleria macrantha* f, *Listera ovata* o, *Nardus stricta* f, *Pedicularis sylvatica* o, *Platanthera bifolia* f, *Potentilla erecta* f, *Prunella vulgaris* f, *Salix repens* la, *Stellaria graminea* o, *Succisa pratensis* o, *Trifolium repens* f.

NC30 NC31 NC33 NC40 NC41 NC42 NC50 NC60 NC63 NC70 NC80 NC84 NC90 NC92 NH69 NH79

Gearnsary	NC732321	07/07/1998	Gordon Rothero
Loch Sheila	NC452096	06/07/1999	Gordon Rothero
Rosehall	NC470021	village	12/07/2010
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
E of Sallachy	NC545095	grassland	16/07/2011
West Clynelish	NC891052	grassland	01/06/2008 Robin Ward
East Brora	NC903045	grassland	01/06/2011 Robin Ward
Hilton of Embo	NH807915	grassland	04/07/2013

NVC: MG 5

Pseudorchis albida (L.) A. & D. Love *Small-white Orchid* g 5
Leuchorchis albida (L.) E. May.

Short grassland in the uplands. Locally frequent.

Ben Griam Mor		11/07/1900	Shoolbred, W.A. NMW
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero

NC31 NC32 NC33 NC41 NC50 NC60 NC80 NC84 NH59

Beinn Rosail slopes	NC7034340677	wet heath	22/06/2011
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NVC: MG 3

Gymnadenia borealis (Druce) R.M. Bateman, Pridgeon & M.W. Chase *Heath Fragrant Orchid* g 6
Habenaria conopsea
Orchis conopsea L.
Gymnadenia conopsea subsp. *borealis*

Grasslands and dry heaths. The labellum is obscurely (not conspicuously) lobed. The lateral sepals are a different shape (relatively shorter and broader; 4-5mm x 2mm rather than 5-7mm x 1 mm). Widespread and locally frequent.

NC30 NC31 NC32 NC40 NC50 NC51 NC60 NC63 NC70 NC71 NC73 NC80 NC91 ND01 NH59 NH69 NH79 NH88

Longuish Road Junction	NH644919	wet heath	10/07/2010
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Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Dornoch Airfield	NH801883	dune grassland	19/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Halmadarie	NC697318	dry heath	20/06/2011
Halmadarie Burn	NC697307	dry heath	20/06/2011
Achnahuie	NC716072	ditch	22/06/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
former caravan park Hilton	NH807915	grassland	04/07/2013
Meall Achadh na Luachred	NC677108	wet heath	07/07/2013
Cnoc na Sguaibe	NC692103	wet heath	07/07/2013
Creag Dalfeufaig	NC703113	wet heath	07/07/2013
Grumby Rock upper slopes	NC707102	dry heath	07/07/2013
Craggie Water	NC913192	rocky stream	27/06/2014
Allt Garbh-airigh	NH634998	wet heath	25/06/2014
Hilton of Embo	NH807915	grassland	29/06/2014
Craggie Water	NC909191	rocky stream	27/06/2014
Braemore Grudie Burn	NC539031	<i>Schoenus</i> flush	24/06/2014

NVC: no data

[*Gymnadenia conopsea* (L.) Br. *Chalk Fragrant Orchid*]
Orchis conopsea L.

g 6

This old record requires confirmation following revision of the genus (see above).

NH69

[X *Dactyloдения legrandiana* = *Dactylorhiza maculata* x *Gymnadenia conopsea*]

Recorded from Easternness and the Moray coast.

[X *Dactyloдения varia* = *Gymnadenia conopsea* x *Dactylorhiza purpurella*]

Recorded from Easternness and the Moray coast.

Coeloglossum viride (L.) Hartm. *Frog Orchid*
Satyrium viride L.
Habernaria viridis R. Br.

g 6



Coeloglossum viride Peter Llewellyn.

Sandy pastures by the sea, and beneath base-rich cliffs in the uplands. Local and uncommon.

Ben Griam Mor	11/07/1900	Shoolbred, W.A. NMW
Creag na h'Uidhe NE side	15/07/1973	A.G. Kenneth

NC31 NC33 NC42 NC80 NC83 NC84 NH69 NH88 NH89

Ben Griam Mor N-facing	NC802389	crag	21/06/2011
Dornoch Dunes Central	NH806896	sand dunes	14/07/2011
Dornoch Dunes S	NH800883	sand dunes	14/07/2011
Ben Griam Mor W crags	NC801388	crag	15/07/2011
Creag Dhubh	NC807390	crag	15/07/2011

Ben Griam Mor SW crags	NC801389	crags	15/07/2011
Dornoch Common Good	NH802885	dune grassland	11/07/2012 Harle & Young
Dornoch Common Good	NH805884	sand dunes	30/06/2013
Doire Dubh Loch Merkland	NC365326	crags	08/07/2013

NVC: SD 8

Dactylorhiza fuchsii (Druce) Soó *Common Spotted-orchid* grt 6
 Orchis fuchsii Druce
 Dactylorchis fuchsii (Druce) Vermeulen

Damp meadows. Locally frequent in the lowlands.

NC40 NC70 NC80 NC82 NC92 NH79 NH89

Hilton of Embo former caravan park NH807915 damp grassland 11/06/2015

NVC: M 9, 10, 13, 22, 24; MG 3, 9; OV 26

[**Dactylorhiza x transiens** (Druce) Soó = **D. fuchsii x D. maculata**]

Recorded from Easter Ross.

[**Dactylorhiza x venusta** (T. & T.A. Stephenson) Soó = **D. fuchsii x D. purpurella**]

Recorded from Easterness and the Moray coast.

Dactylorhiza maculata (L.) Soó *Heath Spotted-orchid* grt 6
 Orchis maculata L.
 Dactylorchis maculata (L.) Vermeulen

Dactylorhiza maculata subsp. **ericetorum** (E.F. Linton) P.F. Hunt and Summerh. grt 6
 Orchis maculata L. subsp. ericetorum E.F. Linton

Damp heaths and moorland, acid bogs, damp, acid grassland. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH89

Longuish Road Junction	NH644919	wet heath	10/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Knock Craggie	NC329056	wet heath	12/07/2010
Knock Craggie	NC328054	roadside	12/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Loanboadich	NH608944	grassland	18/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
An Cnoc Buidhe	NC876282	dry heath	19/06/2011

Achentoul Burn	NC891326	wet heath	19/06/2011
Achentoul Burn	NC892326	gorge	19/06/2011
Rimsdale Forest	NC751376	pine plantation	20/06/2011
vc 107 watershed	NC690300	wet heath	20/06/2011
vc 107 watershed	NC693308	roadside	20/06/2011
Halmadarie	NC696319	wet heath	20/06/2011
Halmadarie	NC697318	dry heath	20/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
Loch Choire road	NC709305	wet heath	20/06/2011
An Chrom-allt	NC718310	roadstone quarry	20/06/2011
Cnoc a Chrom-uilt	NC725312	wet heath	20/06/2011
Rubha Geal	NC743335	wet heath	20/06/2011
Meall an t-Socaich	NC773332	gravel pit	20/06/2011
Garvault slope	NC785387	wet heath	21/06/2011
Above the pony track	NC790389	wet heath	21/06/2011
W slope of Ben Gram Mor	NC798390	wet heath	21/06/2011
Ben Griam Mor NW-slope	NC797393	wet heath	21/06/2011
Ben Griam Mor NW- slope	NC797395	crag	21/06/2011
Garbh-allt	NC791401	wet heath	21/06/2011
Allt na Craige Duibhe	NC785403	wet heath	21/06/2011
Garbh-allt	NC784403	stream	21/06/2011
Biod Eag	NC782403	wet heath	21/06/2011
Biod Eag	NC780402	crag	21/06/2011
Garvault Hotel	NC779394	wet heath	21/06/2011
Garbh-allt Garvault Hotel	NC781389	stream	21/06/2011
Cnoc na h-lolaic	NC695343	molinia bog	21/06/2011
Green Loch	NC719399	wet heath	22/06/2011
Beinn Rosail watershed	NC701404	wet heath	22/06/2011
Beinn Rosail crags	NC704406	crag	22/06/2011
Achnahuie	NC716072	ditch	22/06/2011
Kilbraur Wind Farm	NC779070	wet heath	22/06/2011
Tulloch	NH613925	ditch	09/07/2011
Strath Fleet	NC657043	roadside	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Sgialach Coire	NC370290	composite	13/07/2011
Borrobol Forest	NC803255	woodland	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011

Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Ben Griam Beg E side	NC850412	crags	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Ben Griam Beg	NC830400	mountain ridge	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Beinn Dhorain	NC929146	streamside	17/05/2012
Glen Sletdale	NC902157	stream bank	01/07/2013
Carn Garbh Glen Sletdale	NC906142	crags	01/07/2013
Carn Garbh Glen Sletdale	NC906134	crags	01/07/2013
Carn Garbh Glen Sletdale	NC906145	dry heath	01/07/2013
Glen Sletdale	NC908146	wet heath	01/07/2013
Glen Sletdale	NC909148	stream bank	01/07/2013
Creag a'Bhodaich Sletdale	NC913135	rocky slope	01/07/2013
Creag a'Bhodaich Sletdale	NC914136	crags	01/07/2013
Glen Sletdale	NC915161	crags	01/07/2013
Glen Sletdale	NC923124	wet heath	01/07/2013
Creag a'Chrionaich Sletdale	NC924115	dry heath	01/07/2013
Allt Car Beag Loch Shin	NC480162	wet heath	02/07/2013
Allt Bad a'Ghordanaich	NC495151	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC513130	wet heath	02/07/2013
Allt a'Bhann Loch Shin	NC515127	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC520121	wet heath	02/07/2013
The Airde Loch Shin	NC525142	dry heath	02/07/2013
Cnoc a'Choire Leacach	NC526118	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC531116	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC539108	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC543104	wet heath	02/07/2013
N of Sallachy	NC544959	wet heath	02/07/2013
Allt Salachaidh Sallachy	NC547891	wet heath	02/07/2013
PROSAMO sites Sallachy	NC560656	birch wood	02/07/2013
Loch Front Lairg	NC581623	loch shore	02/07/2013
Sron Lom Glen Cassley	NC356211	grassy slopes	03/07/2013
Maovally W slope	NC368211	wet heath	03/07/2013
Glen Cassley Hydro	NC369201	dry heath	03/07/2013
Maovally N slope	NC371220	blanket bog	03/07/2013
Cnoc Glas na Crionaiche	NC372188	wet heath	03/07/2013
Cnoc Glas na Crionaiche	NC373186	wet heath	03/07/2013
Maovally trig point	NC377215	blanket bog	03/07/2013
Maovally summit cairn	NC378211	blanket bog	03/07/2013
Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
Duchally Lodge Cassley	NC386169	wet heath	03/07/2013
Embo Muir	NH802936	dry heath	04/07/2013

former caravan park Hilton	NH807915	grassland	04/07/2013
Upper Suisgill Kildonan	NC897250	streamside	05/07/2013
Cnoc na Beiste Kildonan	NC905270	dry heath	05/07/2013
Cnoc na Beiste Kildonan	NC911284	summit heath	05/07/2013
Torrish Burn Kildonan	NC969187	ravine birch wood	05/07/2013
Meall Odhar Dunrobin Glen	NC787609	wet heath	06/07/2013
Meall Dubh Dunrobin Glen	NC794645	wet heath	06/07/2013
Loch Horn S slopes	NC795568	wet heath	06/07/2013
Meall Meadhoin	NC800674	wet heath	06/07/2013
Allt Horn Dunrobin Glen	NC801491	conifer plantation	06/07/2013
Ben Horn lower slopes	NC804586	wet heath	06/07/2013
Ben Horn mid slopes	NC805626	wet heath	06/07/2013
Ben Horn mid slopes	NC805626	wet heath	06/07/2013
Ben Horn E crags	NC810624	conglomerate	06/07/2013
A9 underpass at Ord	ND048173	roadside	07/07/2013
Ord of Caithness	ND056173	stream	07/07/2013
Meall Achadh na Luachred	NC677108	wet heath	07/07/2013
Cnoc na Sguaibe R Brora	NC692103	wet heath	07/07/2013
Creag Dalfeufaig R Brora	NC703113	wet heath	07/07/2013
Grumby Rock S facing	NC704100	crags	07/07/2013
Grumby Rock lower slopes	NC712102	wet heath	07/07/2013
R Brora W of Braecludie	NC712103	riverbank	07/07/2013
R Brora W of Braecludie	NC715101	riverbank	07/07/2013
Cnoc Blar an Dubhaidh	NC719112	dry heath	07/07/2013
Meall an Fheur Loch	NC362316	crags	08/07/2013
Coill' an Tosgaire Oykel	NC340515	riverbank	09/07/2013
Coill' an Tosgaire Oykel	NC340515	wet heath	09/07/2013
Cnoc an Tosgaire	NC349466	rushy grassland	09/07/2013
Tulloch	NH618932	bog	09/07/2013
Beinn Domhnaill	NH677966	dry heath	09/07/2013
Creag Ach a'Bhathaich	NH706946	dry heath	09/07/2013
Achvaich	NH710941	riverbank	09/07/2013
Creagan Dubh	NH727945	crags	09/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
West Rearquhar	NH732931	grassland	09/07/2013
Meall Loch Laoigh	NH735956	dry heath	09/07/2013
Creagan na Moine	NH742945	dry heath	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Creag Dhubh	NC705174	wet heath	10/07/2013
Creag Dhubh	NC713172	wet heath	10/07/2013
Cnoc na Feannaig	NC717195	wet heath	10/07/2013
Black Water	NC719177	streamside crag	10/07/2013
Ben Armine Lodge	NC720181	wet heath	10/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Creagandamph	NC736164	wet heath	10/07/2013
Pollie	NC758159	croft	10/07/2013
Cnoc Dubh Beag	NH674925	dry heath	11/07/2013
Ben Tarvie	NH750963	crags	11/07/2013
Meall nan Aighean Armine	NC693307	wet heath	12/07/2013
Halmadarie Burn	NC696296	streamside	12/07/2013
etc.			

NVC: M 15,16,23-25; H 5, 14, 15, 21

Dactylorhiza x formosa (T. & T.A. Stephenson) Soó = **D. maculata x D. purpurella**

Achnahuie	NC716072	ditch	22/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011

Also recorded from Easternness and the Moray coast.

Dactylorhiza incarnata (L.) Soó *Early Marsh-orchid* grt 6

Orchis incarnata L.

Dactylorhiza incarnata (L.) Vermeulen

Dactylorhiza incarnata subsp. **incarnata** *Early Marsh-orchid* grt 6

Orchis strictifolia Opiz



Dactylorhiza incarnata subsp. *incarnata* Peter Llewellyn.

Marshes, and wet meadows near to the coast; very local but plentiful where it occurs.

Creag na h'Uidhe NE side

15/07/1973

A.G. Kenneth

NC30 NC32 NC33 NC40 NC41 NC42 NC50 NC52 NC60 NC61 NC71 NC73 NC80 NC84 NC91
ND01 NH79 NH88

Dornoch Airfield

NH801883

dune grassland

19/06/2011

Dornoch Links

NH802885

dune grassland

11/07/2012 Harle & Young

Dornoch Links

NH802886

dune grassland

11/07/2012 Harle & Young

NVC: M 9, 13, 22, 24; H 5; SD 13-17

[Dactylorhiza incarnata subsp. **coccinea** (Puglsey) Soó *Early Marsh-orchid*] grt 6

Recorded from Easter Ross.

Dactylorhiza incarnata subsp. **pulchella** (Druce) Soó *Early Marsh-orchid* grt 6

Bogs and neutral to acid wet peaty places in the uplands. Told from subsp. *coccinea* by its larger size (more than 20cm tall) and the duller ground colour of the perianth (reddish-purple rather than vivid ruby-red or crimson-red). Occasional.

Royal Dornoch quarry	NH806896	05/09/1998	P. Eaglesfield det. J.K. Butler
Glen Fiag	NC475215	29/06/1998	Gordon Rothero
Gearnsary	NC732321	07/07/1998	Gordon Rothero
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero
Loch Sheila	NC452096	06/07/1999	Gordon Rothero

NC40 NC41 NC42 NC73 NC84 NH88

Dactylorhiza purpurella (T. & T.A. Stephenson) Soó *Northern Marsh-orchid* grt 5



Dactylorhiza purpurella at Invershin 20th June 2006 Peter Llewellyn.

Wet grassy places. Widespread and frequent.

NC31 NC40 NC50 NC51 NC52 NC60 NC70 NC71 NC80 NC81 NC82 NC84 NC90 NC91 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

Loch Migdale N shore	NH632916	loch side	10/07/2010
Bonar Bridge Golf Club	NH617916	waste ground	10/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Knock Craggie	NC328054	roadside	12/07/2010
Oykel Bridge vc 107 bank	NC386008	riverbank	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010

Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Carn an Duin	NH618937	roadside	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Dornoch Airfield	NH801883	dune grassland	19/06/2011
Dornoch Dunes	NH806876	sand dunes	19/06/2011
Dornoch Airfield	NH805883	dune grassland	19/06/2011
A9 verge near Skelbo	NH775943	roadside	19/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
Achnahuie	NC716072	ditch	22/06/2011
Dunrobin Glen	NC812038	stream	22/06/2011
Dunrobin Glen	NC813039	roadside	22/06/2011
Littleferry	NH807957	dune heath	23/06/2011
Littleferry	NH808957	sand dunes	23/06/2011
Coul Links	NH807951	dune slacks	23/06/2011
Embo dune slacks	NH816931	dune slacks	23/06/2011
Embo dune slacks	NH816932	dune slacks	23/06/2011
Embo dune slacks	NH815934	dune slacks	23/06/2011
Embo sand dunes	NH815940	sand dunes	23/06/2011
Crackaig Links	NC958097	sand dunes	23/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Brora Links	NC912047	sand dunes	23/06/2011
Bitrichen	NH765923	roadside	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Tulloch	NH613925	ditch	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Dalnabreac	NC686038	roadside	10/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
W of Mound Rock	NH765994	wooded stream	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dornoch Wind Sock	NH800883	dune slacks	30/06/2013
Dornoch Common Good	NH806873	sand dune	30/06/2013
Glen Sletdale	NC933124	flush	01/07/2013
Glen Sletdale Bridge G	NC937127	bracken	01/07/2013
Loch Front Lairg	NC581623	loch shore	02/07/2013
Dornoch Lochans	NH777889	lochans	04/07/2013

Hilton	NH804915	hamlet	04/07/2013
Coul Links	NH805952	sand dune	04/07/2013
former caravan park Hilton	NH807915	grassland	04/07/2013
Backies	NC832012	ditch	06/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Dornoch Common Good	NH804885	dune grassland	29/06/2014
Carnegie Road Sidhean Mor	NH645966	grassland	25/06/2014
Hilton of Embo	NH807915	grassland	29/06/2014
Royal Dornoch Quarry	NH806895	crag	29/06/2014
Braemore Grudie Burn	NC539031	Schoenus flush	24/06/2014
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
sea cliffs N of Helmsdale	ND035153	soft sea cliff	17/06/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Dornoch Common Good	NH803885	coastal grassland	11/06/2015
Dornoch Common Good	NH800882	coastal grassland	11/06/2015

NVC: SD 14, 17; MC 10; MG 3

Orchis mascula (L.) L. *Early-purple Orchid*
 Orchis morio L. var. mascula L.

grt 4



Orchis mascula Peter Llewellyn.

Pastures, Locally frequent in the lowlands.

Creag na h'Uidhe

15/06/1973

A.G. Kenneth

NC31 NC32 NC33 NC60 NC80 NC83 NC84 NH79

NVC: MG 3; CG 13; U 17

IRIDACEAE

Libertia grandiflora (R.Br.) Sweet *Chilean-iris*

• gb 6



Told from *Sisyrinchium* by the inner tepals, which are twice as long as the outer tepals (not roughly the same length). Flowers are white rather than pale yellow.

Duke Street Golspie

NC839245

suburbia

06/07/2013

[**Sisyrinchium bermudiana** L. *Blue-eyed-grass*]

• hr 7

Sisyrinchium angustifolium Miller

Sisyrinchium graminoides E. Bickn.

Sisyrinchium hibernicum Á. Löve and D. Löve

A rare casual of waste places.

Recorded from Easternness and the Moray coast.

Sisyrinchium striatum Sm. *Pale Yellow-eyed-grass*

• hr 6



After *Crocsmia* and a few of the *Iris*, this is the most common garden outcast of the Iridaceae. It grows well in gardens on the heavier soils, and survives the trauma of expulsion relatively well. It is found on banks, waste ground and in ditches in villages throughout.

Iris orientalis L. *White Iris*

• h 5

This tall striking plant has white strap-shaped petals with yellow bases.

Dunrobin Castle	NC851008	parkland	17/05/2012
Dudgeon Drive Brora	NC902033	council houses	14/06/2015

Iris germanica L. *Bearded Iris*

• h 5

An alien on waste ground and tips, rarely established and then only for a short time.

West Shinness crofts	NC533151	hamlet	14/07/2011
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Also recorded from Easternness and the Moray coast.

Iris sibirica L. *Siberian Iris*

• h 5

Told from other non-evergreen blue irises by its hollow flower stem and brown papery bracts.

Wester Drumliah	NH607934	hamlet	09/07/2011
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

Iris pseudacorus L. *Yellow Iris*

hel 5

By rivers, brooks, streams and marshy places; common and widely distributed. Also widely grown in garden ponds and escaping in towns and villages.

NC40 NC50 NC51 NC60 NC63 NC70 NC71 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92
ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

Clashmore	NH747895	village	10/07/2010
Loch Migdale N shore	NH632916	loch side	10/07/2010
Culmaily Burn Balblair	NH812978	stream	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Opposite Carbisdale Castle	NH576958	flood meadow	12/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Whiteface	NH708893	roadside	07/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Coul Links	NH801949	sand dunes	23/06/2011
Embo	NH817928	village	23/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Shinness Lodge	NC539141	estate	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Coill a Chnocain	NC446014	oak woodland	19/05/2012
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Navidale Cemetery	ND041161	wetland	17/05/2012
Gruids Mill	NC577337	wet woodland	06/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Strath Fleet	NC651496	wet grassland	02/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Balvalaich Kildonan	NC942189	streamside	05/07/2013
Witches Pool Dornoch	NH800892	pond	08/07/2013
Rosehall	NC470222	village	09/07/2013

Ben Armine Lodge	NC704193	hamlet	10/07/2013
Bardnabeinne	NH714904	hamlet	11/07/2013
Rosehall Forest Trails	NC479018	pine plantation	28/06/2014
Glen Loth	NC935130	flush	27/06/2014
Braambury Road Brora	NC904048	bungalows	11/05/2015
The Mound Alderwoods	NH764980	wet woodland	12/05/2015
sea cliffs N of Helmsdale	ND035153	soft sea cliff	17/06/2015
Glen Loth	NC943103	springs and flushes	18/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
S of Forsinard lochans	NC869419	wet heath	15/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015

NVC: M 22,27; MG 6,10; OV 26,30,32; S 4,5,8,13,14,18,23,25,26; W 1,5,6

Iris x hollandica L. *Dutch Iris*

ch 5

A common garden plant, but a rare outcast.

Sutherland Street Helmsdale	ND027153	street	19/06/2011
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[**Iris versicolor** L. *Purple Iris*]

• hel 6

In reed swamps, and by lakes and rivers.

Recorded from the Moray coast.

Iris foetidissima L. *Stinking Iris*

• ch 5

An uncommon garden escape in vc.107. Known at once in winter from the remnants of its bright orange seeds.

St Gilbert Street Dornoch	NH796897	suburbia	10/04/2010
Ferry Road Golspie	NH826997	terrace	08/05/2011
The Meadows Dornoch	NH795896	bungalows	08/05/2013

Crocus L. *Crocus*

Mass-planted in towns and villages, and on all the larger country estates. The first species into flower, and much the most widely self-sown is the pale mauve *C. tommasinianus* in late January. The common yellow crocus is *C. x stellaris* which appears in the second week of February. Of the autumn flowering species, *C. nudiflorus* is much commoner than *C. speciosus* or *C. serotinus*.

Crocus vernus (L.) Hill *Spring Crocus*

• gt 2

Crocus purpureus

Crocus sativus L. var. *vernus* L.

Meadows, grasslands, churchyards, and roadsides in villages. Much the most commonly planted crocus, but very rarely seen far from houses or churches, and seldom self-sown. Leaves 4 to 8mm wide, flowers white to deep purple, perianth tube only white if the rest of the perianth is white. The stamens are bright orange, no matter what the colour of the perianth (e.g. purple or white).

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010

Crocus tommasinianus Herb. *Early Crocus* • gt 1

Much the most commonly self-sown species, often naturalized and forming large swathes of pale purple-blue blossom in churchyards, on banks in villages and in parkland. A pale, delicate, rather floppy crocus with a pure white tube, that suffers badly from rain damage. Leaves narrow (2 to 3mm wide), perianth tube white.

Crocus tommasinianus x C. vernus

Recorded from Easternness and the Moray coast.

[**Crocus sieberi** J. Gay *Sieber's Crocus*] • gt 4

The corm has a vertically splitting, fibrous covering, and the leaves are 1.5-2mm wide. A white or pale mauve crocus with a yellow throat, glabrous and the perianth is *not* striped on the outside.

Recorded from Easternness and the Moray coast.

Crocus ancyrensis (Herb.) Maw. *Ankara Crocus* • gt 4

A beautiful pure yellow crocus (unstriped on the outside), told from *C. chrysanthus* by its vertically (not horizontally) splitting corm covering, and by the yellow (not cream) background colour of the perianth.

Crocus chrysanthus (Herb.) Herb. *Golden Crocus* • gt 4

Crocus annulatus Herbert var. *chrysanthus* Herbert

Perianth yellow, sometimes striped purple, the corm-covering splitting into very distinctive rings at the base (i.e. horizontally and not vertically).

Crocus x stellaris Haw. *Yellow Crocus* = **C. angustifolius x C. flavus** • gt 2

Very common in roadside mass-planting schemes. Also commonly planted on graves in churchyards. Much the commonest yellow crocus. Told from the other yellow spring crocuses by the corm covering splitting vertically (not into rings), and by the perianth being striped (or suffused) purple on the outside (not pure yellow).

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010

[*Crocus nudiflorus* Sm. *Autumn Crocus*] • gt 9

This is the only common autumn-flowering crocus (but there is *Colchicum* as well, of course). Told from the rarer *C. speciosus* by its fibrous corm covering, not splitting into rings at the base. The throat is white to pale purple (not yellow).

Recorded from Easternness and the Moray coast.

Crocus serotinus* Salisb. *Late Crocus • gt 9

A delightful autumn crocus with ornately divided orange stigmas and orange pollen. Told from *C. nudiflorus* by its pale yellow (not pale purple) throat.

Crocus speciosus* M. Bieb. *Bieberstein's Crocus • gt 9

Autumn-flowering, anthers yellow, perianth pale mauve to purple with darker stripes outside, corm-covering splitting into rings at the base (i.e. horizontally and not vertically).

Crocus biflorus* Mill. *Silvery Crocus • gt 4

Perianth white, mauve or pale bluish with a pure yellow throat and very dark stripes on the outside, corm splitting into horizontal rings.

Crocsmia masoniorum* (L. Bolus) N.E. Br. *Giant Montbretia • gt 8

Leaves pleated as in the next species but the perianth lobes are as long as the tube (not less than half as long).

Achrimsdale	NC907065	hamlet	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Embo	NH817928	village	23/06/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011

Crocsmia 'Lucifer'* *Giant Montbretia • gt 8

This is the massive, red-flowered plant.

Struie Road Dornoch	NH800895	suburbia	11/09/2012
Kildonan Lodge	NC904223	parkland	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Skibo Castle S front	NH737890	parkland	11/07/2013

Crocsmia paniculata (Klatt) Goldblatt *Aunt-Eliza*
Antholyza paniculata Klatt
Curtonus paniculatus (Klatt) N.E. Br.

• gt 8

This is the orange-flowered plant, common in gardens through vt. 107. The leaves are broad (up to 8cm) and pleated like a concertina (fan-like, not flat and ribbed). The garden cultivar 'Lucifer' is the commonest large, red flowered plant (see below)

Clashmore	NH747895	village	10/07/2010
Rosehall	NC470021	village	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Camore	NH778903	council houses	12/07/2010
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Briar Cottage Doll	NC883032	hamlet	10/09/2012
MacDonald Place Pittentrail	NC721022	council houses	10/09/2012
Davoch Pittentrail	NC723016	garden	10/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Badanloch Lodge	NC798333	hamlet	10/09/2012
Kinbrace	NC863319	hamlet	10/09/2012
Kildonan Crossing Cottage	NC901216	abandoned garden	09/09/2012
Stittenham Road Helmsdale	ND026155	walled gardens	09/09/2012
Carriekinloch Hydro	NC398253	hamlet	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
High Street Lairg	NC584632	village	02/07/2013
Sunny Bank Dornoch	NH799903	derelict garden	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Rockview Place Helmsdale	ND033153	council houses	07/07/2013
Helmsdale	ND033153	seaside grass	07/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

Hilton of Embo W	NH796913	hamlet	21/06/2015
Preas nan Sgiathanach	NC686095	hamlet	13/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015

Crocsmia x crocosmiiflora (Lemoine) N.E. Br. *Montbretia*

• gt 7

Montbretia x crocosmiiflora Lemoine

Tritonia x crocosmiiflora (Lemoine) Nicholson

Roadsides, railways and banks near houses, common but not thoroughly naturalized. Widespread, growing all too vigorously in gardens and hence occurring as a garden outcast in almost every village, but never forming such extensive patches as it does in the west and north of Britain. Seldom far from houses.

NC80 NC90 NC92 ND01

Royal Dornoch Golf Course	NH804896	old quarry	21/09/1996
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Braefoot Portgower	ND010135	cottages	11/07/2010
Embo Links	NH816932	dune slacks	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Badanloch Lodge	NC798333	hamlet	11/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Rhinamain	NH613936	hamlet	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
Helmsdale Harour	ND029151	terrace	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011

Embo	NH817928	village	23/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
A9 verge at Ballinreach	NC932087	roadside	23/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Dunes Central	NH806858	sand dunes	14/07/2011
Pittentrail	NC726019	village	04/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Embo	NH817928	village	08/05/2013
Camore	NH775903	bungalows	30/06/2013
Hilton	NH804915	hamlet	04/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Sleastary	NH643963	croft	09/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Cambusavie	NH766964	hamlet	11/07/2013
Rowan Crescent Dornoch etc.	NH793899	bungalows	13/07/2013

Schizostylis coccinea Backh. & Harv. *Kaffir Lily*

• gt 8

A brilliant-red or pale-pink-flowered garden plant, found rarely on waste ground.

Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012

XANTHORRHOEACEAE

Hemerocallis fulva (L.) L. *Orange Day-lily*

• grh 6

Hemerocallis lilioasphodelus L. var. *fulva* L.

Popular garden perennials, often thrown out and long persistent on waste ground. All the Day-lily records post-1986 are lumped together here, but various cultivars are no doubt involved.

Loth Station Cottage	NC959101	cottages	11/07/2010
Linsidemore	NH545991	hamlet	12/07/2010
Kinbrace	NC863319	hamlet	11/05/2011

Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Riverside Brora	NC905040	semi-detached	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Front Street Embo	NH817927	village	18/05/2012
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
High Street Lairg	NC584632	village	02/07/2013
Well Street Dornoch	NH799893	cottages	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Sleastary	NH643963	croft	09/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Rosehall	NC470021	village	10/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Lairg	NC581068	council houses	10/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

[*Hemerocallis lilioasphodelus* L. *Yellow Day-lily*]

Hemerocallis lilioasphodelus L. var. *flava* L.

Hemerocallis flava L., nom. illegit.

• grh 6

Kniphofia uvaria* (L.) Oken *Red-hot-poker

Aloe uvaria L.

Kniphofia aloides Moench

• grh 6

Told from the hybrid by its short bracts (3-9mm, not 8-12mm) and V-shaped, narrow leaves (less than 2cm wide).

Kniphofia x praecox* Baker *Greater Red-hot-poker

• grh 6

Stems to 2m (rather than 1.2m), much larger bracts (8-12mm rather than 3-9mm) and broader leaves (to 4cm rather than to 1.8cm). The vc. 107 records to date have not been separated.

Braefoot Portgower	ND010135	railway	11/07/2010
Embo	NH815928	village	11/07/2010
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Simpson Crescent Helmsdale	ND031151	council houses	19/06/2011
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Embo	NH817928	village	23/06/2011

Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Upper Gartymore	ND015150	hamlet	01/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Helmsdale	ND033153	seaside grass	07/07/2013
Sleastary	NH643963	croft	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Fleuchary	NH763916	hamlet	09/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Clynelish Brora	NC902536	hamlet	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Invercassley Stores Rosehall	NC470020	waste ground	28/06/2014
Spinningdale	NH677896	hamlet	24/06/2014
Earls Cross Road Dornoch	NH800900	suburbia	21/06/2015

Phormium tenax J.R. Forst. & G. Forst. *New Zealand Flax*

• n 7

Rare garden outcasts that are not self-sown in vc. 107.

Navidale N Helmsdale	ND035156	hamlet	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Spinningdale	NH677896	hamlet	24/06/2014
Lower Brora	NC908037	bungalows	11/05/2015
Golspie	NC832000	village	08/05/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015

Phormium cookianum Le Jol. *Lesser New Zealand Flax*
Phormium colensoi J.D. Hook.

• n 7

Told from *P. tenax* by its smaller size. The leaves grow up to 2m x 7cm (not 3m x 12cm) and the perianth is 2.5-4cm (not 3-5cm).

ALLIACEAE

Allium schoenoprasum L. *Chives*

• gb 6

A common herb-garden plant, often grown in beds near the kitchen door with other frequently used plants like parsley and sage. Occasional on stony waste ground in towns and on dry banks in villages where garden waste is fly-tipped. The flower heads are the colour of Thrift, *Armeria maritima*.

Bonar Bridge	NH610914	village	07/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
East Gate Lodge Dunrobin	NC838019	hamlet	22/06/2011
Kirkton	NH799986	farmstead	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
The Bridge Bonar Bridge	NH610915	old walls	06/09/2012
Hilton	NH804915	hamlet	04/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Brora Golf Club	NC909039	suburbia	27/06/2014
Sutherland Street Helmsdale	ND027154	village	17/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015

Allium cepa L. *Onion*

• gb 6

Grown on virtually every allotment and vegetable garden, and often thrown out onto compost heaps and waste ground. Poor competitors with established vegetation, and short lived on grassy waste ground. Their tall stems are extremely conspicuous when running to seed. A cultivated plant of great antiquity, not known as a wild plant. Most garden onions are F1 hybrids of which more than 50 named forms are currently available. Spring Onions (which are cultivars like 'White Lisbon' with long necks and a small bulb), are frequent in culinary waste.

Allium fistulosum L. *Welsh Onion*

• gb 6

Grown in gardens and allotments and hybridised with *A. cepa*. The plants are like large and very coarse chives with hollow evergreen leaves, but they have cylindrical leaves, the stem widest at the middle, and the tepals are longer (7-9mm rather than 3-4.5mm). This is the species that is used in Chinese and Japanese cooking as Spring Onions, sometimes as the hybrid with *A. cepa*.

Allium roseum L. *Rosy Garlic*

• gb 6

Allium neapolitanum Cirillo *Neapolitan Garlic*

• gb 4

Allium subhirsutum L. *Hairy Garlic*

• gb 5

Allium moly L. *Yellow Garlic*

• gb 5

A distinctive garden plant with small yellow flowers. Uncommon as an outcast.

Embo	NH817928	village	23/06/2011
Camore	NH775903	bungalows	30/06/2013

Hilton	NH804915	hamlet	04/07/2013
Skibo Castle S front	NH737890	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH800896	village	29/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014

Also recorded from Easter Ross and the Moray coast.

Allium triquetrum L. *Three-cornered Garlic* ● gb 5

A rare garden escape, not naturalised to anything like the extent that it is in south-west England.

Ferry Road Golspie	NH826997	terrace	08/05/2011
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NVC: OV 24

Allium paradoxum (M. Bieb.) G. Don *Few-flowered Garlic* ● gb 4
Scilla paradoxa M. Bieb.

A curious, untidy-looking species with bulbs and long-stalked flowers.

Allium ursinum L. *Ramsons* gb 4

Damp woods, bushy places and by springs on nutrient-rich soils in woods and shady waste ground. Scattered and local in the lowlands. Local and uncommon but occasionally dominant, as in woods by the Big Burn Golspie, where it carpets near-vertical rock faces as well as the woodland floor.

Allt a' Chnoic Ghlais	NC380181	ravine	10/07/1998 Gordon Rothero
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NC30 NC31 NC33 NC70 NC80 NH79

Balclaggan Rock woods	NC730042	woodland	12/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Torboll Farm S	NH750980	woodland	11/07/2011
Salmon ladder	NH740980	woodland	11/07/2011
Dunrobin Castle drive	NC849011	parkland	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Balblair	NH602930	woodland	16/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Big Burn Backies	NC834014	woodland	05/05/2013
Big Burn Golspie	NC840009	woodland	05/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Allt a'Chonic Ghlais Cassley	NC379179	waterfalls	03/07/2013
The falls Golspie Big Burn	NC834013	woodland	10/05/2015
Golspie Big Burn	NC840005	woodland	10/05/2015
Golspie Big Burn	NC837012	woodland	10/05/2015
The gorge Golspie Big Burn	NC836012	woodland	10/05/2015

Golspie Big Burn bridge	NC840008	woodland	11/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Dubh Choille Glen Cassley	NC379180	rocky stream	16/05/2015

NVC: OV 27; W 8,12,21

[**Allium oleraceum** L. Field Garlic] ● gb 4

Recorded from the Moray coast.

[**Allium carinatum** L. *Keeled Garlic*] ● gb 4

Rough waste ground.

Recorded from Easternness and the Moray coast.

Allium sativum L. *Garlic* ● gb 5

Ubiquitous in kitchens, but usually bought in. Grown by keen gardeners in dry sunny beds, where the cloves are planted in spring, after the risk of frost has passed, then dug up again in autumn and overwintered indoors, before planting out a second time (as “rounds”) in the following spring. The multi-cloved bulb is then harvested at the end of the second growing season. The species is so ancient as a crop plant that it is not known from the wild (there is evidence that the Egyptians were using garlic around BC3200). It is propagated entirely by vegetative means, and never sets viable seed under any growing conditions. This severely limits its potential for naturalisation, and the plant is very seldom seen outside gardens except as an obvious component of culinary waste.

Allium porrum L. *Leek* ● gb 6

An occasional outcast on waste ground in allotments, and frequent on compost heaps as culinary waste.

Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Embo	NH816928	village	08/05/2015

Allium scorodoprasum L. *Sand Leek* ● gb 6

Very local and rare.

NC71

[**Allium vineale** L. *Wild Onion*] gb 6

Dry roadsides, grassland, churchyards (especially on the clay), dry arable fields, old wall tops, hedge-sides, gardens and waste places.

Recorded from Easternness and the Moray coast.

[**Allium nigrum** L. *Broad-leaved Leek*] ● gb 5

Allium aflatunense B.Fedtsch. *Round-headed Garlic* ● gb 5

An occasional garden plant, sometimes persisting as an outcast. Most commonly as the cultivar 'Purple Sensation'

Tower Street Golspie	NC835006	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Dunrobin Castle	NC851008	parkland	17/05/2012
Well Street Dornoch	NH799893	cottages	04/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Hilton of Embo W	NH796913	hamlet	21/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

Allium cristophii Trautv. *Star of Persia* ● gb 5

A spectacular bedding plant with huge flower heads up to 20cm across. Rare as a garden outcast.

Nectaroscordum siculum (Ucria) Lindl. *Honey Garlic* ● gb 5
Allium siculum Ucria

Skibo Castle S front	NH737890	parkland	11/07/2013
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Agapanthus praecox Willd. *African Lily* ● gb 6

An occasional garden plant in the north, but occasionally persistent on waste ground as an outcast.

Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012

Tristagma uniflorum (Lindl.) Traub *Spring Starflower* ● gb 4
Triteleia uniflora Lindley
Milla uniflora Graham
Ipheion uniflorum (Graham) Raf.

Dunrobin Castle	NC851008	parkland	17/05/2012
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Nerine bowdenii Will. Watson ● gb 10

Frequent in gardens but very rare as an outcast.

Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Garden Golspie	NC837001	botanical garden	07/09/2012
Biblical Garden Golspie	NC837001	botanical garden	05/07/2013
Biblical Garden Golspie	NC837001	botanical garden	13/06/2015

Amaryllis belladonna L. *Jersey Lily* ● gb 9

Flowers at the same time of year as *Nerine*, but told from it by its stouter, almost black stems, and trumpet-shaped (not star-shaped) flowers, with less divided tepals.

Leucojum aestivum subsp. **pulchellum** (Salisb.) Briq. *Summer Snowflake* ● gb 3
 Leucojum pulchellum Salisb.

The two sharp edges of the stem are entire throughout (not inconspicuously denticulate). Flowers in 2–4's (rather than 3–5's). Spathe much narrower 4–7mm (rather than 7–11mm). Most records of garden escapes refer to this subspecies rather than subsp. *aestivum*.

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

Leucojum vernum L. *Spring Snowflake* ● gb 2

Very uncommon and always planted. Like a large snowdrop with yellowy-green patches at the tips of its tepals (and flowering at the same time in February), this is an uncommon garden plant and very uncommon garden escape (allegedly native at 2 sites in South Somerset and Dorset (Stace, 1997), but excluded from the *Red Data Book* as an introduction). Extensively naturalised in moist shade in Savill Gardens on the Surrey side of Virginia Water.

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
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Galanthus nivalis L. *Snowdrop* gb 1

Woods, often by streams, plantations, roadsides, churchyards, orchards, hedges and gardens. Locally frequent, but typically in small quantity and usually near houses. Ubiquitous in churchyards throughout the county. Often accompanied by *G. nivalis* 'Flore Pleno' which has attractive, double, ruffled flowers. Flowering in January, February and March. The much bigger plants, conspicuous from a distance by their taller habit and much bigger flowers, are usually 'Magnet', 'S. Arnott' or 'Atkinsii' (these are cultivars of unknown hybrid origin). 'Magnet' has long pedicels and big outer tepals that are conspicuously "waisted" in the lower third. 'S. Arnott' has the petals spreading sideways (rather than hanging down) and is somewhat shorter in stature than the other two common cultivars. 'Atkinsii' is earlier flowering (it often looks rather weather-beaten and slug-eaten by peak snowdrop time), and has the biggest flowers, with narrow, pointed, outer tepals with a very short pedicel, often with one or more deformed petals. There is a late-flowering clone 'Scharlockii' which has small flowers and a very distinctive bifid spathe that extends well beyond the flowers like a pair of hare's ears (see Bishop *et al.*, 2001, for illustrations). Snowdrops with leaves wider than 10mm at flowering are probably *not* this species (see below).

Achany walled garden	NC568015	15/04/1974	J.E. Kirby
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NC50 NH78

Helmsdale Station	ND020155	railway	06/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Main Street	NH798895	street	10/04/2010
Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010

Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg ex Sutherland Hotel	NC582063	waste ground	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora Station	NC906041	railway	11/04/2010
Brora E	NC909042	council houses	11/04/2010
St Andrew's Golspie	NC837002	churchyard	09/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Helmsdale Station	ND023154	railway	05/05/2013
Helmsdale	ND026154	village	05/05/2013
Navidale House Hotel	ND039158	parkland	05/05/2013
Rosehall	NC470209	village	06/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Dunrobin Castle	NC853740	shore	07/05/2013
Main Street Brora	NC903391	street	07/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Lochside Achentoul Lodge	NC872355	hamlet	09/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Overscaig Hotel	NC417232	hamlet	13/05/2015
West Shinness Lodge	NC529153	hamlet	13/05/2015

[*Galanthus nivalis* 'Flore Pleno' *Double Snowdrop*]

gb 1

Especially in churchyards, when it is sometimes more abundant than the single flowered forms.

[*Galanthus* 'Magnet']

• gb 2

This is the commonest of the 'giant snowdrops', and is occasional in parkland and churchyards, but rather rare in wild-looking woodland at any distance away from buildings. It is a sterile triploid with 36 chromosomes (not the usual 24) that stands out in mass-plantings of snowdrops with its taller stems (23cm), broader leaves (to 9mm), and perfectly formed long white petals (28mm), hanging straight downwards and slender-waisted. The apical green mark is V-shaped, making an angle of 70 degrees (the green V-shape of the very similar cultivar *G. 'Galatea'* makes a perfect right angle).

Galanthus 'Atkinsii'

• gb 1

If 'Magnet' has big flowers (28mm), then those of 'Atkinsii' are enormous (30-32mm). Almost as tall as *G. 'Magnet'* (21cm) but earlier flowering (late January), with narrower, more pointed, often deformed flowers (to 33mm). The apical green mark is heart-shaped, slightly blurred in the middle (not a sharply defined 70 degree angle). Both 'Magnet' and 'Atkinsii' are told from other big-flowered Snowdrops by their obviously *G. nivalis* leaves (narrow with a central pale line, rather than broad or plicate as in *G. elwesii*, *G. plicatus* or *G. woronowii*).

[**Galanthus woronowii** Losinsk. *Green Snowdrop*]
 Galanthus ikariae subsp. latifolius Stern
 Galanthus ikariae of gardens

• gb 2

Occasional in churchyards and on roadside banks. The glossy leaves are light to medium grass-green on their upper surface, in contrast to the bluey-green of most other snowdrops (but see *G. ikariae*, above). The leaves have flat to slightly undulate margins, 11-20mm wide and are hooded at the apex, with 2 (-4) shallow furrows in the upper surface with corresponding folds on the under-side. There is a single, rather short and angular U-shaped green mark at the apex of the inner perianth segments.

[**Galanthus reginae-olgae** Orph. *Queen Olga's Snowdrop*]
 Galanthus nivalis L. subsp. reginae-olgae (Orph.) Gottl.-Tann.

• gb 11

Told from other common snowdrops whose leaves are flat as they unfold (not inrolled) and by the striped upper surface of the leaves (*G. reginae-olgae* has a pale (glaucous) central band, flanked by dull green lateral bands).

Narcissus L. *Daffodils*

The approach in horticulture is to separate the cultivars into 12 divisions, 11 of which are of garden origin (all the wild species are bundled together into Division 10). There are 3 rag-bag Divisions: all the double (*Flore Plena*) forms are in Division 4; the split-cup forms make up Division 11, while Division 12 contains "miscellaneous cultivars". The main determinant of Divisions 1 to 3 is the length of the trumpet relative to the petals; in Division 1 the trumpet is long (as long or longer than the petals), in Division 2 it is intermediate (a 'cup' that is shorter than the petals but more than one third their length), while in Division 3 it is short (a 'bowl' or 'disk' that is less than one third the length of the petals). There are more than sixteen thousand named cultivars, but only a handful of these are sufficiently vigorous, and hence cheap enough, to be mass-planted or to be thrown out from gardens. There is a key to the Divisions and to the cultivars on the web site, along with pictures of the most frequent cultivars.

In the scheme adopted here, you need only to decide on the colour of the petals (what botanists call the perianth segments or tepals) and the colour of the trumpet or cup (the corona of botanists). There are only 3 classes of colours: yellow (Y), white (W) and orange (O). If in doubt, very pale yellow should be scored as white, and pink scored as orange. In the pair of colours, petal colour comes first, then trumpet colour, so WY is a daffodil with white petals and a yellow trumpet. Note that in YY cultivars, the petals and trumpet may be quite different shades of yellow or gold (i.e. YY does not necessarily mean that the trumpet and petals are concolorous).

Group	Code	Petal colour	Trumpet colour	page
1	YY	yellow	yellow	
2	YW	yellow	white	
3	YO	yellow	orange	
4	WY	white	yellow	
5	WW	white	white	
6	WO	white	orange	
7	WR	white	red-lined	

Group 1 YY: yellow petals, yellow trumpet

- N. pseudonarcissus** subsp. **major** (Curtis) Baker *Spanish Daffodil* • gb 2
 Narcissus major Curtis
 Narcissus hispanicus Gouan

This is much the commonest daffodil found as a garden outcast, on railway cuttings, roadsides and waste ground. Told from the wild daffodil *N. pseudonarcissus* subsp. *pseudonarcissus* by the fact that the petals are held upright (not swept forward) and are more or less the same shade of yellow as the trumpet (not distinctly paler). Even experts have difficulty telling many of the D1 YY cultivars apart. Told from the much smaller, more delicate subsp. *obvallaris* by the longer pedicel (> 15mm), and the fact that the petals are twisted at the base. In this account, I give the locations only of specimens that I have tentatively attributed to cultivar. The subspecies in aggregate is found in every 10km square.

- N. 'Dutch Master'** • gb 2

This is the most frequent of the large, concolorous D1 YY daffodil cultivars, much planted in municipal schemes, and long-persistent in old gardens. Vigorous, and hence often thrown out of gardens; it is long persistent as an outcast. Plantations, parks, churchyards, orchards, roadside banks and waste ground.

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Station	NH825997	railway	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Merkland Lodge	NC400296	hamlet	13/05/2011
Badintagairt Glen Cassley	NC428102	croft	10/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
The Barn Rheanbreck	NC595049	hamlet	13/05/2011
Rogart Church	NC738035	churchyard	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Kildonan Church	NC910207	churchyard	11/05/2011
Helmsdale Riverside	ND026154	woodland	08/05/2011
Carn Mhor Coull	NH800947	bungalows	09/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Dornoch Caravan Site Bridge	NH802890	waste ground	20/05/2012
Raemore/Gruids Woods	NC558035	roadside	19/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012

Knockarthur	NC754066	hamlet	18/05/2012
Birch Cottage Rogart	NC734029	hamlet	18/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Crackaig Farm Wood	NC957105	woodland	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Dunrobin Castle drive	NC849011	parkland	17/05/2012
Achue	NH696912	hamlet	16/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Gruids	NC566039	hamlet	16/05/2012
Dalnessie	NC631152	hamlet	04/05/2013
The Crask Inn	NC523247	hamlet	04/05/2013
Sutherland Hotel Lairg	NC582063	village	04/05/2013
Pittentrail	NC726019	village	04/05/2013
Morvich Lodge Rogart	NC755006	hamlet	04/05/2013
Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
Bonar Bridge	NH609917	village	04/05/2013
Lairg	NC582067	village	04/05/2013
Oldtown	NC851088	hamlet	05/05/2013
West Helmsdale	ND018156	hamlet	05/05/2013
Gartymore	ND014150	hamlet	05/05/2013
Gartymore	ND013143	hamlet	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
North Brora Muir	NC891042	hamlet	05/05/2013
Killin	NC855070	hamlet	05/05/2013
Ascoilbeg Glen Brora	NC825107	hamlet	05/05/2013
Balnacoil Lodge	NC807113	hamlet	05/05/2013
Tighearmarian	NC748068	hamlet	05/05/2013
Knockarthur	NC754066	hamlet	05/05/2013
Backies	NC823030	hamlet	05/05/2013
Big Burn Golspie	NC840007	woodland	05/05/2013
Benmore Lodge	NC322114	wet heath	06/05/2013
Rosehall	NC470020	village	06/05/2013
Achness Hotel Rosehall	NC473024	parkland	06/05/2013
Glenrossal Lodge Cassley	NC466036	hamlet	06/05/2013
Glencassley Lodge	NC441072	hamlet	06/05/2013
Badintagairt Glen Cassley	NC428102	hamlet	06/05/2013
Gruids	NC570035	hamlet	06/05/2013
Gruids Mill	NC575028	hamlet	06/05/2013
Sallachy	NC549085	hamlet	06/05/2013
Dunrobin Castle main drive	NC849011	parkland	07/05/2013
Cambusmore Lodge	NH767975	parkland	08/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Loch Fleet by Skelbo	NH784957	shore	08/05/2013
Skelbo Castle Cottage	NH793952	hamlet	08/05/2013
N of Knockglass	NH799947	hamlet	08/05/2013
Four Penny Paddock Embo	NH801939	hamlet	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Clashmore	NH747895	village	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013

Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Craggie Estate House	NC872200	inbye grassland	20/06/2015
Road br. Golspie Big Burn	NC840005	woodland	10/05/2015
Backies Golspie	NC823030	hamlet	10/05/2015
Stonehouse Doll	NC888033	hamlet	11/05/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Achovan	NC755058	hamlet	10/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
Fiag Lodge	NC454281	waste ground	26/06/2014
Drumbui Garvault	NC738057	hamlet	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Scriberscross Strath Brora	NC775100	hamlet	11/05/2015
Kirkton	NC913207	hamlet	09/05/2015
Achue	NH627942	roadside	08/05/2015
Benmore Lodge	NC321115	hamlet	12/05/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Halgarry	NC919201	hamlet	09/05/2015
Torrish	NC971187	hamlet	09/05/2015
Old Town Strath Brora	NC851088	hamlet	11/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
Kinbrace	NC862317	hamlet	09/05/2015
Pittentrail	NC726019	village	10/05/2015
Rhilochan	NC742068	hamlet	11/05/2015
Ardachu	NC677036	hamlet	10/05/2015
Kildonan Lodge	NC904223	hamlet	09/05/2015
Golspie	NC832000	village	08/05/2015
Cnoc na Moine	NH638919	hamlet	12/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Acheilidh	NC664038	hamlet	10/05/2015
Brae Cottage Srath Carnaig	NH703987	hamlet	12/05/2015
Fourpenny Embo	NH802940	hamlet	08/05/2015
Clashban	NH643964	hamlet	12/05/2015
Clunel	NC561054	hamlet	13/05/2015
Glenrossal Gatehouse	NC466036	hamlet	16/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Rhian Bridge	NC563165	hamlet	13/05/2015
Fuaran Ruairidh Badninish	NH766939	hamlet	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Little Ferry	NH805956	hamlet	14/05/2015
Merkland Lodge	NC400297	hamlet	13/05/2015
Corrickinloch	NC398253	hamlet	13/05/2015
Kinbrace Cemetery	NC859313	cemetery	16/06/2015
Navidale	ND037161	hamlet	14/06/2015
Sallachy	NC548085	hamlet	13/05/2015
Badintagairt	NC428102	hamlet	16/05/2015
Marrel	ND016173	hamlet	14/06/2015
Achnaluachrach	NC679098	hamlet	13/06/2015

Church Street Golspie	NH829997	bungalows	16/05/2015
West Clyne	NC905064	hamlet	14/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Smithy Cottage Balvraid	NH771954	hamlet	17/05/2015
Clashmore	NH745895	hamlet	17/05/2015
West Langwell	NC698088	hamlet	13/06/2015

N. 'Golden Harvest'

• gb 2

One of the largest and earliest of the commonly planted D1 YY cultivars (flowers to 113mm diameter), sometimes used in municipal mass-planting schemes along with pansies and wallflowers. It is recognised most easily by the shape of the outer petals, which have their edges characteristically swept back like the rims of Napoleon's hat (technically, "inflexed at the base and reflexed at the apex"). The trumpet is deeper gold than the petals (14B compared with 7A), and the mouth is conspicuously frilled ("widely expanded, strongly ribbed, rim deeply notched and crenate").

Helmsdale Station	ND020155	railway	06/04/2010
Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cathedral	NH797897	churchyard	10/04/2010
Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Sutherland Hotel	NC582063	waste ground	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Garvault Hotel	NC782386	hamlet	11/05/2011
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Sutherland Hotel Lairg	NC582063	village	04/05/2013
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Morvich Lodge Rogart	NC755006	hamlet	04/05/2013
Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
Helmsdale	ND026154	village	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Navidale House Hotel	ND039158	parkland	05/05/2013
Knockarthur	NC754066	hamlet	05/05/2013
Backies	NC823030	hamlet	05/05/2013
Big Burn Golspie	NC840007	woodland	05/05/2013
Tuiteam	NC437014	hamlet	06/05/2013
Rosehall	NC470020	village	06/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Main Street Brora	NC903039	street	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Embo	NH817928	village	08/05/2013
Meikle Ferry	NH728869	hamlet	08/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Kildonan Lodge	NC904223	hamlet	09/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015

Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	09/05/2015
Embo	NH816928	village	08/05/2015
Road br. Golspie Big Burn	NC840005	woodland	10/05/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Lairg	NC579068	bungalows	10/05/2015
Pittentrail	NC726019	village	10/05/2015
Kirkton	NC913207	hamlet	09/05/2015
Doll	NC878033	hamlet	11/05/2015
Lochside Achentoul Lodge	NC872355	hamlet	09/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Rosehall	NC470021	village	10/05/2015
Kilmain	NC871042	hamlet	11/05/2015
Firth View Backies Golspie	NC834017	hamlet	10/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015
Fourpenny Embo	NH802940	hamlet	08/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Fanich	NC879037	hamlet	11/05/2015
West Clyne	NC905064	hamlet	14/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
West Shinness Lodge	NC529153	hamlet	13/05/2015
Sallachy	NC548085	hamlet	13/05/2015

Narcissus pseudonarcissus subsp. **obvallaris** (Salisb.) A. Fern. *Tenby Daffodil* ● gb 2
Narcissus obvallaris Salisb.

A beautiful, small flowered concolorous D1 YY with forward pointing (not upright) yellow (not pale yellow) petals that are not twisted at the base. Told from subsp. *major* (the commonest concolorous D1 YY) by shorter pedicels (less than 15mm), narrower leaves (10mm rather than 15mm), and smaller petals (to 35mm not 40mm).

Narcissus pseudonarcissus subsp. **pseudonarcissus** *Daffodil* ● gb 2

This is the native plant of ancient woodlands. The forward-pointing petals are pale yellow, so plant is described in Group 4 (WY), below.

NC31 NC50 ND01 NH68

Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
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N. 'Rijnveld's Early Sensation' ● gb 1

This is by far the earliest-flowering of the common D1 YY (it sometimes scores as D2 YY); flowers 90mm diameter, with pale greenish-yellow petals (6C) with conspicuous green stripes on the back, and a darker, golden-yellow trumpet (12A). The petals overlap for one quarter (not one third) at the base. It would key down as *N. bicolor* because of its small (8mm) hypanthial tube (not 12-25mm as in *N. pseudonarcissus*) and long (35mm) trumpet (not 16-25mm as in *N. minor*). It is very rare as a garden outcast, and is typically found as mass-plantings or as a relic of cultivation.

N. 'Tête-à-Tête' *Narcissus* x *cyclazetta* = *N. cyclamineus* x *N. tazetta* ● gb 2

This is the most popular dwarf daffodil, a D12 YY or YO with grass-green (not blue-green) leaves. The petals are upright, at an almost perfect 90 degrees to the line of the trumpet (neither reflexed nor forward pointing). The trumpet is much darker than the petals (almost orange). It is sold as a flowering pot plant in garden centres from January onwards, and mourners often buy these and put the pots on graves. The bulbs are sometimes planted out after flowering, but many are discarded in their pots. Very variable in size; plants may be as little as 10cm tall or as much as 40cm. The flowers can be multiple (2 or 3 per stem), but are typically single (despite the cultivar name). Flower size is also variable, typically 50mm diameter across the petals with the trumpet 15mm long, but occasionally as much as 65mm diameter and 20mm trumpet. It has a fascinating history as a cultivar. It arose as one of just 3 seeds in a single capsule of the normally sterile N. 'Cyclataz' that were found and propagated by the legendary Alec Gray in the late 1940s. The remaining two seeds also became the parents of well-known cultivars in N. 'Jumble' and N. 'Quince' (see Chater and Stace (2003), *Watsonia* 24, 532).

Helmsdale Main Street	ND027153	street	06/04/2010
Dornoch Cathedral	NH797897	churcyard	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churcyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora Station	NC906041	railway	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Badanloch Lodge	NC798333	hamlet	11/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Pittentrail	NC726019	village	04/05/2013
Rosehall	NC470020	village	06/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Main Street Brora	NC903039	street	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013

N. 'Quince'

• gb 3

Like a tall, single-flowered version of *N.* 'Tête-à-Tête'.

N. 'February Gold' = *N. pseudonarcissus* x *N. cyclamineus*

• gb 3

One of the most commonly planted daffodils. A beautiful medium-sized concolorous golden yellow D6 YY species with greenish leaves, used in mass-plantings in towns and villages. Frequent in churchyards. Occasionally found as an outcast on waste ground. Despite its name, it does not flower

until March in most years. Told at once by its long, slender trumpets and spreading petals, which curve back elegantly in an arc from the vertical.

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
The Crask Inn	NC523247	hamlet	04/05/2013
Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
Gruids	NC570035	hamlet	06/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013

N. 'Telamonius Plenus'

• gb 3

The commonest of the ragged yellow doubles (D4 YY) with a dense jumble of greenish-yellow petals where the trumpet ought to be. The leaves are conspicuously narrower than those of other frequent cultivars (10mm wide rather than 18mm). Common in churchyards, and occasional on waste ground and banks in villages. Another all-yellow double is *N.* 'Thomas' Virescent Daffodil', which has rather rectangular-shaped flowers (the shape is "landscape" rather than "portrait") and 2 or 3 epicentres in each flower, is rare in old gardens; it is thought to be a double variant of *N. obvallaris*.

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Brora Station	NC906041	railway	11/04/2010
Tomich	NC610049	hamlet	13/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Whiteface	NH708893	roadside	07/05/2011
Pittentrail	NC726019	village	04/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Gartymore	ND014150	hamlet	05/05/2013
Gartymore	ND013143	hamlet	05/05/2013
Dalreavoch	NC751084	hamlet	05/05/2013
Big Burn Golspie	NC840007	woodland	05/05/2013
Rosehall	NC470020	village	06/05/2013
Glenrossal LodgeCassley	NC466036	hamlet	06/05/2013
Gruids	NC570035	hamlet	06/05/2013
Clynesh Moss fly tipping	NC879045	roadside	07/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Loch Fleet by Skelbo	NH784957	shore	08/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013

Embo	NH817928	village	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Carnegie Golf Course	NH739871	links	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Craigton	NH627960	hamlet	08/05/2015
Kilvine Cottage	NC872040	hamlet	11/05/2015
Cnoc na Moine	NH638919	hamlet	12/05/2015
Fanich	NC879037	hamlet	11/05/2015
Doll	NC881027	hamlet	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
North Tannachy	NC751084	hamlet	11/05/2015
Kyloag	NH660911	hamlet	08/05/2015
Little Ferry	NH805956	hamlet	14/05/2015
Fuaran Ruairidh Badninish	NH766939	hamlet	17/05/2015
Tarvie Cottage Balvraid	NH760951	hamlet	17/05/2015
Fuaran Ruairidh Badninish	NH763942	hamlet	17/05/2015

N. 'Carlton'

• gb 3

The most popular of the large D2 YY cultivars. Its most distinctive feature is the contrast between the pale yellow petals and the deep golden-yellow trumpet (some individuals might even be scored as WY rather than YY); the flowers typically droop, showing the backs of the petals. Potted plants are widely sold in flower in garden centres, and often placed on graves in churchyards (the bulbs are occasionally thrown out, along with the pot, when the plants have finished flowering). The flowers are very large (up to 120mm diameter) and the petals are more lemony-yellow than in other D2 YY, and they are longitudinally ribbed (creased). The trumpet is more bell-shaped than parallel-sided, and the darker mouth is expanded and strongly ruffed ("frilled, notched and crenate").

Dornoch The Meadows	NH799893	suburbia	10/04/2010
Sutherland Hotel Lairg	NC582063	waste ground	10/04/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Firth View Golspie	NC833019	hamlet	09/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
N Portgower	ND013137	roadside	08/05/2011
Helmsdale Riverside	ND026154	woodland	08/05/2011
Navidale	ND034167	hamlet	08/05/2011
Astle	NH745919	hamlet	10/05/2011
Carn Mhor Coul	NH800947	bungalows	09/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Embo dunes	NH817930	sand dune	18/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Dalnessie	NC631152	hamlet	04/05/2013

Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Pittentrail	NC726019	village	04/05/2013
Morvich Lodge Rogart	NC755006	hamlet	04/05/2013
Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
Bonar Bridge	NH609917	village	04/05/2013
Lairg	NC582067	village	04/05/2013
Backies Curling Pond	NC839012	woodland	05/05/2013
Backies	NC834017	hamlet	05/05/2013
Navidale House Hotel	ND039158	parkland	05/05/2013
Helmsdale Station	ND023154	railway	05/05/2013
West Helmsdale	ND020156	hamlet	05/05/2013
West Helmsdale	ND018156	hamlet	05/05/2013
Gartymore	ND013143	hamlet	05/05/2013
Brora Heritage Centre	NC897042	park	05/05/2013
North Brora Muir	NC891042	hamlet	05/05/2013
Dalreavoch	NC751084	hamlet	05/05/2013
Tighearmarian	NC748068	hamlet	05/05/2013
Knockarthur	NC754066	hamlet	05/05/2013
Glen House Dunrobin Glen	NC784050	hamlet	05/05/2013
Tuiteam	NC437014	hamlet	06/05/2013
Rosehall	NC470020	village	06/05/2013
Dalphaid Glen Cassley	NC397145	croft	06/05/2013
Gruids	NC570035	hamlet	06/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Dunrobin Castle main drive	NC849011	parkland	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
N of Knockglass	NH799947	hamlet	08/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Clashmore	NH747895	village	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Ord Place Lairg	NC580058	council houses	10/05/2015
St Callan's Rogart	NC738035	hamlet	10/05/2015
Cambusmore Gatehouse	NH771968	hamlet	08/05/2015
Lairg	NC579068	bungalows	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Embo	NH816928	village	08/05/2015
Lairg	NC581068	council houses	10/05/2015
Kinbrace	NC862317	hamlet	09/05/2015
Firth View Backies Golspie	NC834017	hamlet	10/05/2015
Tuiteam	NC435014	hamlet	12/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Backies Golspie	NC823030	hamlet	10/05/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Dutch Cottage Backies	NC828023	hamlet	10/05/2015
Halgarry	NC919201	hamlet	09/05/2015
Culnara	NH625921	hamlet	08/05/2015
Clashmore	NH748895	village	08/05/2015

Invercassley House Rosehall	NC474015	parkland	10/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015
Torrish	NC971187	hamlet	09/05/2015
Rhivra	NH671904	hamlet	08/05/2015
Ardachu	NC677036	hamlet	10/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Acheilidh	NC664038	hamlet	10/05/2015
Kilmain	NC871042	hamlet	11/05/2015
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015
North Tannachy	NC751084	hamlet	11/05/2015
Kilvine Cottage	NC872040	hamlet	11/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	09/05/2015
above Rhemusaig	NC733021	hamlet	10/05/2015
Camore Crescent Camore	NH777903	council houses	08/05/2015
Kyloag	NH660911	hamlet	08/05/2015
Fourpenny Embo	NH802940	hamlet	08/05/2015
Doll	NC878033	hamlet	11/05/2015
Fanich	NC879037	hamlet	11/05/2015
Achovan	NC755058	hamlet	10/05/2015
Glen House Dunrobin Glen	NC784050	hamlet	10/05/2015
Drumbui Garvault	NC738057	hamlet	10/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Stonehouse Doll	NC888033	hamlet	11/05/2015
Lairg	NC585063	village	10/05/2015
Achork	NC753052	hamlet	10/05/2015
West Merkland	NC383329	hamlet	13/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
West Shinness Lodge	NC529153	hamlet	13/05/2015
Achrimsdale	NC910067	hamlet	14/05/2015
Glencassley Lodge	NC441072	hamlet	16/05/2015
Overscaig Hotel	NC417232	hamlet	13/05/2015
Fuaran Ruairidh Badninish	NH766939	hamlet	17/05/2015
Sallachy	NC548085	hamlet	13/05/2015
Tarvie Cottage Balvraid	NH760951	hamlet	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Rhian Bridge	NC563165	hamlet	13/05/2015
West Helmsdale	ND020154	hamlet	14/05/2015

N. 'Saint Keverne'

• gb 2

An elegant D2 YY cultivar with almost concolorous flowers (the petals are golden-yellow and the trumpet is somewhat deeper yellow), flowers *c.*70mm across and trumpet 30mm long (sometimes exactly D1 rather than D2) with the flat petals, overlapping only one quarter at the base, and white-mucronate at their tips. Common as a garden plant, but too valuable to be thrown out in any numbers. It has a rather military, well ironed appearance with upright, very flat petals and a parallel-sided trumpet with very little flare at the mouth. One of the earliest of the D2 YY.

Gartmore	ND013143	hamlet	05/05/2013
Rosehall	NC470020	village	06/05/2013
Dunrobin Castle main drive	NC849011	parkland	07/05/2013
Clashmore	NH747895	village	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015

N. 'Peeping Tom'

• gb 2

This is a large D6 cultivar (100mm wide) with a greatly extended narrow trumpet (40mm long but only 16mm wide in the middle); only the rare, smaller N. 'Bartley' is more extreme in its flare, with a 6mm flange (4mm in Peeping Tom). Occasional in parkland and churchyards, but rare as an outcast on waste ground. Long-lived as a garden outcast.

N. 'Bartley'

• gb 4

This D6 cultivar has an outrageously long, thin trumpet, an abruptly flared mouth and strongly reflexed petals. Very like Peeping Tom, but smaller flowered (84mm wide rather than 100mm) and shorter stemmed, with a more exaggerated flare to the trumpet. Uncommon as a relic of planting. The trumpet is 38mm long and 30mm wide at the mouth, with a 6mm flange (only 4mm in Peeping Tom), regularly crenate.

N. 'Yellow Cheerfulness'

• gb 3

Often mass-planted on roadsides and roundabouts in towns, sometimes in alternating geometrical patterns with D4 WY N. 'Cheerfulness'.

Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Backies	NC834017	hamlet	05/05/2013
Helmsdale	ND026154	village	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Meikle Ferry	NH728869	hamlet	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Meikle Ferry	NH729870	roadside	12/05/2015
Lonemore	NH764884	hamlet	17/05/2015

Narcissus x odorus L. *Campernelle Jonquil* = **N. jonquilla** x **N. pseudonarcissus** agg.

Narcissus x infundibulum Poirét

These have 1 or 2 perfectly formed, small, fragrant, concolorous flowers per stem. The jonquils have narrow, rush-like leaves but the hybrid jonquils have deeply channelled leaves, 6-8mm wide. The most common D7 YY cultivars are 'Pipit', 'Sweetness' and 'Sundial' (the attractive 'Suzy' is D7 YO).

N. 'Sweetness'

• gb 3

This is a scented D7 YY (sometimes with 2 flowers per stem) with conspicuous white mucros.

Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
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Gruids	NC566039	hamlet	16/05/2012
Embo	NH816928	village	08/05/2015

N. 'Trevithian'

• gb 3

This is an all-yellow scented D7 YY with 2 or 3 flowers per stem, each 70mm wide.

N. 'Quail'

• gb 3

Small, neat, fragrant, concolorous flowers held singly or in pairs on elegantly long, slender stems, with petals and trumpet of a deep, uniform golden yellow and conspicuous white mucros (D7 YY).

Front Street Embo	NH817927	village	18/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Littleferry	NH806956	hamlet	07/05/2013
Fountain Road Golspie	NC831001	suburbia	11/05/2015

N. 'Hawera'

• gb 4

A delightful, multi-flowered, slender cultivar with narrow spreading petals and short, broad trumpets (D5 YY); unmistakable, both petals and trumpets are pale canary-yellow. Late flowering.

Dalchalm	NC909056	village	12/05/2011
Littleferry	NH806956	hamlet	07/05/2013
Embo	NH817928	village	08/05/2013
Pittentrail	NC726019	village	10/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Clashmore	NH745895	hamlet	17/05/2015

N. 'Golden Ducat'

• gb 4

One of the biggest all-yellow doubles (D4 YY) and certainly the most popular in vc. 107. An attractive concolorous cultivar, with shiny gold flowers constructed of neat tiers of large inner petals (not a ragged jumble like *N. 'Telamonius Plenus'*, or neat but smaller as in *N. 'Pencrebar'*). Occasional in churchyards, but seldom thrown out.

Rosehall Church	NC485012	churchyard	10/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Firth View Golspie	NC833019	hamlet	09/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Brora Harbour	NC909037	village	12/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Astle	NH745919	hamlet	10/05/2011
Carn Mhor Coul	NH800947	bungalows	09/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011

Greenwood Rosehall	NC481017	hamlet	19/05/2012
Dunrobin Castle	NC850007	parkland	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Briarhill Achue	NH682897	hamlet	16/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Lairg	NC582067	village	04/05/2013
High Street Golspie	NH830997	village	05/05/2013
Helmsdale	ND026154	village	05/05/2013
Rosehall	NC470020	village	06/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Clashmore	NH747895	village	08/05/2013
Meikle Ferry	NH728869	hamlet	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Drumbui Garvault	NC738057	hamlet	10/05/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Glen House Dunrobin Glen	NC784050	hamlet	10/05/2015
Golspie Big Burn	NC840005	woodland	10/05/2015
Golspie S	NC824997	village	09/05/2015
Clashmore	NH748895	village	08/05/2015
above Rhemusaig	NC733021	hamlet	10/05/2015
Sallachy	NC548085	hamlet	13/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Overscaig Hotel	NC417232	hamlet	13/05/2015
Clashmore	NH745895	hamlet	17/05/2015

N. ‘Pencrebar’

• gb 3

An attractive concolorous YY double like N. ‘Golden Ducat’ but more strongly scented and with smaller interior segments, graded in size.

N. ‘Rip van Winkle’

• gb 3

An outrageous-looking double D4 YY with pointed petals after the style of a punk hair-do.

Brora Main Street	NC905038	street	11/04/2010
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013

Narcissus cyclamineus DC. *Cyclamen-flowered Daffodil*

• gb 2

This species has a long, slender, parallel-sided trumpet and reflexed, backward pointing, linear petals. It is one of the few garden Daffodils to naturalise from seed, and is found in damp grass in parkland (see also *N. bulbocodium*). Often grown on rockeries in gardens but seldom planted in churchyards or cemeteries.

Narcissus bulbocodium L. *Hoop-petticoat Daffodil*

• gb 3

A rush-leaved species (1-2mm wide) with a cone-shaped trumpet and greatly reduced petals. Planted in groups in parkland, and sometimes self-sown.

Lonemore NH764884 hamlet 17/05/2015

N. 'Unsurpassable' ● gb 4

A striking D1 YY with flowers 108mm wide. The petals are inflexed with margins strongly recurved, of a brilliant greenish yellow. The mouth is expanded and frilled with a widely flanged rim that is deeply notched and crenate.

Pittentrail NC726019 village 04/05/2013

N. 'Magnificence' ● gb 4

A big D1 YY with flowers 115mm wide. The mouth of the trumpet is expanded and deeply 6-lobed with a reflexed and deeply and densely crenate margin.

Helmsdale Station	ND023154	railway	05/05/2013
Pittentrail	NC726019	village	04/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Lairg	NC579068	bungalows	10/05/2015
Stonehouse Doll	NC888033	hamlet	11/05/2015
Rosehall	NC470021	village	10/05/2015
Firth View Backies Golspie	NC834017	hamlet	10/05/2015
Doll	NC878033	hamlet	11/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	09/05/2015
Overscaig Hotel	NC417232	hamlet	13/05/2015
Crask Inn	NC523246	hamlet	13/05/2015

N. 'Standard Value' ● gb 4

An uncommon D1 YY.

Rovie Lodge Strath Fleet NC714037 hamlet 04/05/2013

N. 'Saint Patrick's Day' ● gb 3

A classic D2 YY, formerly more popular than now. The flowers are a light greenish yellow, very distinctive once known. An early flowerer.

Rovie Lodge Strath Fleet NC714037 hamlet 04/05/2013

N. 'Little Witch' ● gb 4

This is a D6 YY with reflexed petals and a white mucro.

Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Rosehall	NC470021	village	10/05/2015
Crask Inn	NC523246	hamlet	13/05/2015

N. 'Baby Moon' ● gb 4

A tiny cultivar with sweet-scented flowers just 15mm across, this is a D7 YY. There are 3 to 5 flowers per stem, in canary yellow.

Helmsdale	ND026154	village	05/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Johnstone Crescent Brora	NC905036	council houses	11/05/2015

Group 2 YW: yellow petals, white trumpet

Specialists refer to these flowers as "reverse bicolours", because YW is a much rarer colour combination in daffs than is WY.

N. 'Pipit' ● gb 3

This is a D7 with the reverse-bicolour colours of 'Binkie' (YYW-W) and 2 or 3 flowers per stem, each 70mm wide.

Front Street Embo	NH817927	village	18/05/2012
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N. 'Binkie' ● gb 3

The only D2 YW likely to be seen in vc. 107. The flowers are 100mm wide, greenish yellow, paling to white at the base, with a conspicuous white mucro. The trumpet is white with a yellow rim.

Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
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N. 'Spellbinder' ● gb 4

This is an uncommon colour combination. The only D1 YW likely to be found in churchyards or banks in villages. Often concolorous with lemon-yellow petals and trumpet. Rare as an outcast.

Littleferry	NH806956	hamlet	07/05/2013
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Group 3 YO: yellow petals, orange trumpet

N. 'Fortune' ● gb 3

A very common garden plant, widely planted in churchyards, and often seen on roadside banks and on village greens. This is much the most frequent of the D2 YO cultivars, and also the earliest into flower. The flowers are 108mm diameter. A key feature is that the mouth of the trumpet is very clearly 6-lobed, and the deep lobes are strongly overlapping. The trumpet is not as intensely orange as in other YO cultivars, and the base of the trumpet is paler orange than the mouth.

Helmsdale Main Street	ND027153	street	06/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Garvault Hotel	NC782386	hamlet	11/05/2011
Firth View Golspie	NC833019	hamlet	09/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Carn Mhor Coul	NH800947	bungalows	09/05/2011
Pittentrail	NC726019	village	04/05/2013
Morvich Lodge Rogart	NC755006	hamlet	04/05/2013
Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
Bonar Bridge	NH609917	village	04/05/2013
Lairg	NC582067	village	04/05/2013
Backies	NC834017	hamlet	05/05/2013
Gartymore	ND014150	hamlet	05/05/2013
Knockarthur	NC754066	hamlet	05/05/2013
Achness Hotel Rosehall	NC473024	parkland	06/05/2013
Gruids	NC570035	hamlet	06/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013
Embo	NH817928	village	08/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Clashmore	NH747895	village	08/05/2013
Meikle Ferry	NH728869	hamlet	08/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Kilmain	NC871042	hamlet	11/05/2015
Backies Golspie	NC823030	hamlet	10/05/2015
Torrish	NC971187	hamlet	09/05/2015
Achork	NC753052	hamlet	10/05/2015
Fanich	NC879037	hamlet	11/05/2015
Acheilidh	NC664038	hamlet	10/05/2015
Emlys	NC738039	hamlet	10/05/2015
Camore Crescent Camore	NH777903	council houses	08/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Clashmore	NH748895	village	08/05/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Lairg	NC585063	village	10/05/2015
Invercassley House Rosehall	NC474015	parkland	10/05/2015
Culnara	NH625921	hamlet	08/05/2015
West Merkland	NC383329	hamlet	13/05/2015
Achrimdsdale	NC910067	hamlet	14/05/2015

N. 'Jetfire'

• gb 3

A short D6 YO (or D12) cultivar, very popular as a pot plant on graves, often subsequently planted in grass (like a big-flowered version of 'Tête-à-Tête' but with dark blue-green (not grass-green) leaves,

and downward-facing (not horizontal) trumpets). The reddish-orange, parallel-sided trumpet is fancifully seen as the exhaust flame from a jet fighter plane. There are several cultivars that resemble over-sized Jetfire (e.g. 'Glenfarclas', 'Itzim' and 'Andalusia') but I have never seen these outside gardens.

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora Station	NC906041	railway	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Ferry Road Golspie	NH826997	terrace	08/05/2011
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Rosehall	NC470020	village	06/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Rosehall	NC470021	village	10/05/2015

N. 'Conspicuus' formerly '**Barrii Conspicuus**' ● gb 3

A fine old daffodil from D3 YO, typically found in parkland rather than new housing.

Kildonan Lodge	NC904223	parkland	17/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Kildonan Lodge	NC904223	parkland	09/05/2015

N. 'Orange Phoenix' ● gb 3

An ancient cultivar, one of the first double D4 YO, with clumsy tongues of orange emerging from a tight, neater cluster of central yellow petaloid segments.

Greenwood Rosehall	NC481017	hamlet	19/05/2012
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N. 'Hollywood' ● gb 3

An occasional D2 YO with pale lemon-yellow petals that are ribbed and creased. Trumpet is orange, rather narrow (not widely flared) at the mouth, and yellow at the base.

N. 'Home Fires' ● gb 4

An occasional D2 YO, but nowhere near as common as *N.* 'Fortune'. Graveyards and banks in villages, rarely on waste ground.

N. 'Jumblic' ● gb 3

This is a cute-looking, short trumpeted, dwarf D6 (or D12) YO or YY cultivar with grass-green leaves and 1-4 flowers per stem, popular as an ornament on graves in churchyards, and as an edging plant in rockeries. Like a fragrant version of 'Tête-à-Tête' but with smaller flowers and much more strongly

swept-back petals (the petal tips are almost parallel with the sides of the trumpet, as in *N. cyclamineus*).

N. 'Tahiti'

• gb 4

The commonest of the YO doubles, with regular, rounded, yellow petal segments surrounding a cluster of bright red-orange central segments. Churchyards and abandoned gardens; occasional.

Helmsdale	ND034152	seaside grass	05/05/2013
Rosehall	NC470020	village	06/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Carnegie Golf Course	NH739871	links	08/05/2013
Ardachu	NC677036	hamlet	10/05/2015
Fourpenny Embo	NH802940	hamlet	08/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
above Rhemusaig	NC733021	hamlet	10/05/2015
Glen House Dunrobin Glen	NC784050	hamlet	10/05/2015
Golspie	NC832000	village	08/05/2015

N. 'Grand Soleil d'Or'

• gb 2

A striking multi-flowered cultivar (D8 YO) with small rounded yellow petals and very short orange cups. The commonest of this Division in gardens, but uncommon in churchyards. Very early flowering.

Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
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Narcissus x incomparabilis Mill. *Nonesuch Daffodil* = **N. poeticus** x **N. pseudonarcissus**

A fragrant, single-flowered D2 YO cultivar. Plantations and parks, occasionally naturalized. Many un-namable D2 cultivars might be recorded under this name, including WY and WO as well as YO forms.

Group 4 WY: white or pale yellow petals, yellow trumpet

N. 'Ice Follies'

• gb 3

Many peoples' least favourite Daffodil, but I like it. Much the commonest white-petalled cultivar (D2 WY), and found on waste ground, mass-planted in towns, village greens, parkland, churchyards, and even on banks in open countryside. The short, frilled trumpet starts out lemon-yellow but soon fades to white, so the plant can look either WY or WW. The flowers are often badly eaten by slugs.

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Davidson Terrace	NC588063	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010

Golspie Main Street	NH831999	street	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Firth View Golspie	NC833019	hamlet	09/05/2011
Front Street Embo	NH817927	village	18/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Sutherland Hotel Lairg	NC582063	village	04/05/2013
Rovic Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Pittentrail	NC726019	village	04/05/2013
Morvich Lodge Rogart	NC755006	hamlet	04/05/2013
Bonar Bridge	NH609917	village	04/05/2013
Lairg	NC582067	village	04/05/2013
Backies Curling Pond	NC839012	woodland	05/05/2013
Backies	NC834017	hamlet	05/05/2013
High Street Golspie	NH830997	village	05/05/2013
Helmsdale	ND026154	village	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Strath Helmsdale	ND022171	roadside	05/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Navidale House Hotel	ND039158	parkland	05/05/2013
West Helmsdale	ND020156	hamlet	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
North Brora Muir	NC891042	hamlet	05/05/2013
Knockarthur	NC754066	hamlet	05/05/2013
Big Burn Golspie	NC840007	woodland	05/05/2013
Tuiteam	NC437014	hamlet	06/05/2013
Benmore Lodge	NC322114	wet heath	06/05/2013
Rosehall	NC470020	village	06/05/2013
Achness Hotel Rosehall	NC473024	parkland	06/05/2013
Badintagairt Glen Cassley	NC428102	hamlet	06/05/2013
Gruids	NC570035	hamlet	06/05/2013
Gruids Mill	NC575028	hamlet	06/05/2013
Sallachy	NC549085	hamlet	06/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Main Street Brora	NC903039	street	07/05/2013
Dunrobin Castle main drive	NC849011	parkland	07/05/2013
Golspie Caravan Park	NH821981	sand dune	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Skelbo Castle Cottage	NH793952	hamlet	08/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013
Embo	NH817928	village	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Clashmore	NH747895	village	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Clashmore	NH748895	village	08/05/2015
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015

Badfluich Rosehall	NC495004	hamlet	10/05/2015
Kirkton	NC913207	hamlet	09/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
Lairg	NC579068	bungalows	10/05/2015
Knockdhu	NC597060	hamlet	10/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Achness Hotel Rosehall	NC473024	hamlet	12/05/2015
Lairg	NC581068	council houses	10/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Fourpenny Embo	NH802940	hamlet	08/05/2015
Doll	NC878033	hamlet	11/05/2015
Firth View Backies Golspie	NC834017	hamlet	10/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Fanich	NC879037	hamlet	11/05/2015
Achork	NC753052	hamlet	10/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Embo	NH816928	village	08/05/2015
Achentoul Lodge	NC873359	hamlet	09/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Drumbui Garvault	NC738057	hamlet	10/05/2015
Lairg	NC585063	village	10/05/2015
above Rhemusaig	NC733021	hamlet	10/05/2015
Ardachu	NC677036	hamlet	10/05/2015
Achovan	NC755058	hamlet	10/05/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Kinbrace	NC862317	hamlet	09/05/2015
Dutch Cottage Backies	NC828023	hamlet	10/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
West Helmsdale	ND020154	hamlet	14/05/2015
Glenrossal Gatehouse	NC466036	hamlet	16/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Smithy Cottage Balvraid	NH771954	hamlet	17/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Little Ferry	NH805956	hamlet	14/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Achrimsdale	NC910067	hamlet	14/05/2015

Narcissus pseudonarcissus subsp. ***pseudonarcissus*** *Daffodil*
Narcissus gayi (Hénon) Pugsley

• gb 2

Told from the other sub-species of *N. pseudonarcissus* by the petals, which are much paler than the trumpet (scored as WY not YY), forward pointing (not spreading) and clearly twisted. There is a bewildering variety of colour variation from pure white petals and deep golden trumpets, to almost concolorous pale lemon-yellow, but they all share the relatively long slender trumpet, and the forward-pointing, twisted petals. The popular cultiva 'Princeps' can be mistaken for the sub-species.

Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
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N. 'Empress'

• gb 3

A beautiful and distinctive cultivar with a deep-golden-yellow, narrow trumpet, and pure white, slightly forward pointing petals of great substance (D1 WY).

Gordonbush Lodge	NC845096	walled gardens	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Helmsdale	ND034152	seaside grass	05/05/2013
Navidale House Hotel	ND039158	parkland	05/05/2013
Gartymore	ND014156	hamlet	05/05/2013
Gartymore	ND013143	hamlet	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
Glenrossal Lodge Cassley	NC466036	hamlet	06/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013
Clashmore	NH747895	village	08/05/2013
Meikle Ferry	NH728869	hamlet	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Lairg	NC585063	village	10/05/2015
Rosehall	NC470021	village	10/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Coastguard Station Dornoch	NH802892	waste ground	08/05/2015
Golspie Big Burn	NC840005	woodland	10/05/2015
Little Ferry	NH805956	hamlet	14/05/2015

N. 'Princeps'

• gb 3

A famous old cultivar, like *N. pseudonarcissus* subsp. *pseudonarcissus* with its forward pointing twisted and inflexed petals, but the petals are much whiter, and the trumpet is more slender, longer, and bright rich yellow, with very little flare at the mouth.

Lairg Loch Side	NC580069	suburbia	10/04/2010
Brora Station	NC906041	railway	11/04/2010
Rhian	NC563165	hamlet	04/05/2013
Sutherland Hotel Lairg	NC582063	village	04/05/2013
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Pittentrail	NC726019	village	04/05/2013
Morvich Lodge Rogart	NC755006	hamlet	04/05/2013
Mound Junction	NH777983	roadside	04/05/2013
Oldtown	NC851088	hamlet	05/05/2013
Kilcalmkill Gordonbush	NC846095	hamlet	05/05/2013
Backies	NC834017	hamlet	05/05/2013
Sutherland Street Helmsdale	ND029152	village	05/05/2013
Helmsdale	ND034152	seaside grass	05/05/2013
Strath Helmsdale	ND022171	roadside	05/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013

Navidale House Hotel	ND039158	parkland	05/05/2013
West Helmsdale	ND020156	hamlet	05/05/2013
Gartymore	ND014150	hamlet	05/05/2013
Gartymore	ND014147	hamlet	05/05/2013
Gartymore	ND013143	hamlet	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
Delnaleish	NC885042	hamlet	05/05/2013
Killin	NC855070	hamlet	05/05/2013
Sciberscross Lodge	NC775100	hamlet	05/05/2013
Dalreavoch	NC751084	hamlet	05/05/2013
Backies	NC823030	hamlet	05/05/2013
Woodside Achurigill	NC485015	hamlet	06/05/2013
Rosehall	NC470020	village	06/05/2013
Glenrossal Lodge Cassley	NC466036	hamlet	06/05/2013
Glencassley Lodge	NC441072	hamlet	06/05/2013
Gruids	NC570035	hamlet	06/05/2013
Gruids Mill	NC576034	hamlet	06/05/2013
St Mirrens Cemetery	NC783098	graveyard	07/05/2013
Clynelish Moss fly tipping	NC879045	roadside	07/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
The Mound Embankment	NH769977	roadside	08/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Skelbo Castle Cottage	NH793952	hamlet	08/05/2013
N of Knockglass	NH799947	hamlet	08/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013
Four Penny Paddock Embo	NH801939	hamlet	08/05/2013
Dornoch Airstrip Windsock	NH800883	dune slacks	08/05/2013
Carnegie Golf Course	NH739871	links	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Backies Golspie	NC823030	hamlet	10/05/2015
Kinbrace	NC862317	hamlet	09/05/2015
Brae Cottage Srath Carnaig	NH703987	hamlet	12/05/2015
St Callan's Rogart	NC738035	churtyard	10/05/2015
Lairg	NC581068	council houses	10/05/2015
above Rhemusaig	NC733021	hamlet	10/05/2015
Drumbui Garvault	NC738057	hamlet	10/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	09/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Dornoch Common Good	NH800883	dune grassland	08/05/2015
Kildonan Lodge	NC904223	hamlet	09/05/2015
Sallachy	NC548085	hamlet	13/05/2015
Rhian Bridge	NC563165	hamlet	13/05/2015
Corrickinloch	NC398253	hamlet	13/05/2015
Fuaran Ruairidh Badninish	NH763942	hamlet	17/05/2015
West Shinness Lodge	NC529153	hamlet	13/05/2015

Narcissus x medioluteus Mill. *Primrose-peerless* = **N. tazetta** x **N. poeticus**
 Narcissus x poeticus auct., non L.

• gb 3

Narcissus x biflorus Curtis

A D8 WY, occasionally naturalized in grass fields near houses. Often only 2 or 3 fragrant flowers, and these tend to be larger than other Division 8 WY taxa (the hypanthial tube is 20mm or more). The trumpet is yellow (not deep orange, as in *N.* 'Geranium').

Narcissus minor L. *Lesser Daffodil* ● gb 3

Like a miniature version of *N. pseudonarcissus*, the hypanthial tube is only 9-15mm long (not 15-25mm). The narrow trumpet is deep golden-yellow, and the narrow, forward pointing petals are pale yellow, sometimes almost white. Could be confused with 'Little Beauty'.

N. 'La Riante' ● gb 3

A zoned D3 with white petals and a short, multicoloured trumpet YOO or YZR.

Morvich Lodge Rogart	NC755006	hamlet	04/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013

N. 'February Silver' ● gb 3

A pale flowered D6 WY version of the very popular 'February Gold' (above). Later flowering (late March), with a lemon-yellow trumpet and spreading white petals (not forward pointing as in the earlier-flowering *N. pseudonarcissus* subsp. *pseudonarcissus* or *N.* 'Little Beauty'). Rather uncommon.

N. 'Jack Snipe' ● gb 3

A very attractive D6 WY daffodil with reflexed white petals and a short lemon-yellow trumpet. The flowers are roughly the same shape as 'Tête-à-Tête' but larger (70mm rather than 65mm wide), and WY rather than YO.

Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Embo	NH816928	village	08/05/2015

N. 'Bravoure' ● gb 3

This is the only common tall D1 WY that is likely to be found outside gardens. The base of the white petals is suffused with the same golden-yellow as the trumpet. A very striking, large-flowered (120mm diameter) daffodil with a long, slender trumpet. The gold at the mouth of the trumpet is flecked with white.

N. 'White Lady' ● gb 4

An elegant, slender, later-flowering D3 WY cultivar with narrow, separated white petals and a very short yellow trumpet, making a distinctive, star-shaped flower.

Skibo Castle	NH734888	pond	09/05/2011
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Navidale House Hotel	ND039158	parkland	05/05/2013

Dunrobin Castle	NC853007	shore	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Carnegie Golf Course	NH739871	links	08/05/2013
Spinningdale	NH675897	hamlet	08/05/2013
Firth View Backies Golspie	NC834017	hamlet	10/05/2015
Culnara	NH625921	hamlet	08/05/2015
Golspie	NC832000	village	08/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	09/05/2015
Kildonan Lodge	NC904223	hamlet	09/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Cnoc na Moine	NH638919	hamlet	12/05/2015
Invercassley House Rosehall	NC474015	parkland	10/05/2015
Backies Golspie	NC823030	hamlet	10/05/2015
Invershin Station	NH579953	hamlet	12/05/2015
Culdrair	NC738044	hamlet	10/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
St Callan's Rogart	NC738035	hamlet	10/05/2015
NW Spinningdale	NH674899	hamlet	08/05/2015
Lairg	NC585063	village	10/05/2015
Kyloag	NH660911	hamlet	08/05/2015
Kinbrace	NC862317	hamlet	09/05/2015
Blar-Mhor	NC874339	hamlet	09/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Doll	NC878033	hamlet	11/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Rosehall	NC470021	village	10/05/2015
Clashmore	NH748895	village	08/05/2015
Corrickinloch	NC398253	hamlet	13/05/2015
Fuaran Ruairidh Badninish	NH766939	hamlet	17/05/2015
Achrimsdale	NC910067	hamlet	14/05/2015
West Shinness Lodge	NC529153	hamlet	13/05/2015
Glenrossal Gatehouse	NC466036	hamlet	16/05/2015
West Helmsdale	ND020154	hamlet	14/05/2015
Glencassley Lodge	NC441072	hamlet	16/05/2015
Fuaran Ruairidh Badninish	NH763942	hamlet	17/05/2015
Firth View Backies Golspie	NC834017	hamlet	10/05/2015

N. 'Minnow'

• gb 3

One of the smallest cultivars with up to 5 tiny flowers per stem; it has cream or pale yellow petals and lemon-yellow cups that fade to cream.

Narcissus tazetta L. *Bunch-flowered Daffodil*

• gb 4

These are strap-leaved (not rush-leaved) cultivars with multiple tiny flowers that are fragrant (D8 WY or WO). There are usually fewer than 10 flowers per stem, often only 5 or 6.

N. 'Jenny' • gb 3

The commonest and the earliest flowering of several D6 WY cultivars, with pale lemon-yellow trumpets and narrow, reflexed white petals.

N. 'Dove Wings' • gb 4

A very attractive D6 WY with spreading creamy white overlapping petals and a relatively long lemon-yellow trumpet.

N. 'Topolino' • gb 2

A very attractive short-stemmed D1 WY with relatively large flowers (80mm wide) with forward-pointing, twisted, white petals, pale, blue-green leaves, and a clear, lemon-yellow trumpet (30mm long). Early.

Bonar Bridge Tulloch Road	H608921	uburbia	0/04/2010
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N. 'Tuesday's Child' • gb 3

A classic D5 WY, often grown but not long-lasting as an escape.

A9 Mound	NH780984	roadside	04/05/2013
Helmsdale	ND026154	village	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Embo	NH817928	village	08/05/2013

N. 'Little Beauty' • gb 3

A delightful dwarf D1 WY Daffodil with a pale lemon-yellow trumpet and palest yellow, almost white twisted petals, directed forwards. Excellent for mass-planting in an alpine bed. Very rare as an outcast, or in churchyards

N. 'Woodland Prince' • gb 3

One of the most popular D3 WY with a tiny yellow bowl and pure white petals.

The Crask Inn	NC523247	hamlet	04/05/2013
Helmsdale	ND034152	seaside grass	05/05/2013
Gartymore	ND014156	hamlet	05/05/2013
Gartymore	ND013143	hamlet	05/05/2013
Main Street Brora	NC903039	street	07/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013

N. 'Lucifer' • gb 3

This is a D2 W-YYO with star-shaped, twisted petals and a zoned trumpet with N. 'Princeps' as one of its parents.

Gordonbush Lodge	NC845096	walled gardens	05/05/2013
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013

Group 5 WW: white petals, white or pale yellow trumpet

Narcissus papyraceus Ker Gawl. *Paper-white Daffodil* ● gb 4

A multi-flowered, all-white D8 species most frequently represented by the cultivar *N.* 'Paper White'. It has up to 10 small (1.5cm diameter), highly fragrant flowers per stem.

N. 'White Lion' ● gb 4

The most frequent of the all-white doubles in vc. 107; D4 WW

Knockarthur	NC754066	hamlet	18/05/2012
Helmsdale	ND026154	village	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
R Brora at Brora	NC903040	riverbank	07/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Firth View Backies Golspie	NC834017	hamlet	10/05/2015
Kirkton	NC913207	hamlet	09/05/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Rhivra	NH671904	hamlet	08/05/2015
above Rhemusaig	NC733021	hamlet	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Dutch Cottage Backies	NC828023	hamlet	10/05/2015
Golspie	NC832000	village	08/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015
Bonar Bridge	NH611917	village	08/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Little Ferry	NH805956	hamlet	14/05/2015
Clashmore	NH745895	hamlet	17/05/2015

N. 'Thalia' ● gb 4

A big D5 WW (milk-white) cultivar with 3-4 flowers per stem, resembling a blown-up *N. triandrus* but with spreading rather than reflexed petals, and gaping rather than rounded trumpets. This cultivar was formerly mis-classified as D8.

Skibo Castle	NH734888	pond	09/05/2011
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Rosehall	NC470020	village	06/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013

Main Street Brora	NC903039	street	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013
Four Penny Paddock Embo	NH801939	hamlet	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Embo	NH816928	village	08/05/2015
Backies Golspie	NC823030	hamlet	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Rosehall	NC470021	village	10/05/2015
Pittentrail	NC726019	village	10/05/2015

N. 'Ice Wings'

• gb 4

D5 WW like 'Thalia' but smaller (flowers 40mm dia. rather than 50mm) with a parallel-sided (not expanding) trumpet and broader petals.

Narcissus triandrus L. *Angel's-tears*

• gb 3

A popular dwarf daffodil. The nodding flowers are multiple, white, and have strongly reflexed petals. The cup-shaped trumpet has rounded sides.

NH89

N. 'Mount Hood'

• gb 4

One of the commonest of the all-white Division 1s. The cream trumpet soon fades to white.

Garvault Hotel	NC782386	hamlet	11/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Greenwood Rosehall	NC481017	hamlet	19/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Rosehall	NC470020	village	06/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Backies	NC834017	hamlet	05/05/2013
Ord Place Lairg	NC580058	council houses	10/05/2015
Doll	NC884032	hamlet	11/05/2015
Fanich	NC879037	hamlet	11/05/2015
Wood Pool Achinnearin	NC901229	hamlet	09/05/2015
Kirkton	NC913207	hamlet	09/05/2015
Lairg	NC579068	bungalows	10/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Achrimsdale	NC910067	hamlet	14/05/2015

N. 'Empress of Ireland'

• gb 4

Another of the common all-white D1 WW cultivars; big flowers with white petals and a cream coloured trumpet, fading to off-white. The trumpet is more widely flanged than in *N.* 'Mount Hood'.

Backies	NC834017	hamlet	05/05/2013
Skelbo Street Skelbo	NH795942	hamlet	08/05/2013
Meikle Ferry	NH728869	hamlet	08/05/2013

N. 'W.P. Milner'

● gb 3

Small flowers (60mm diameter) drooping downwards in this venerable D1 WW dating from before 1869.

The Crask Inn	NC523247	hamlet	04/05/2013
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N. 'Cassata'

● gb 4

A beautiful split-cup Daffodil (D11 WW) with 100mm diameter flowers in which the petals are almost obscured by the flattened corona segments which open pale lemon-yellow then fade to white.

Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Clashmore	NH745895	hamlet	17/05/2015

N. 'Cheerfulness'

● gb 4

A popular garden plant with several fragrant double flowers per stem (D4 WW or WY) each 5.5cm diameter. The double centre has a mixture of white and cream coloured segments (as compared to D4 WO 'Bridal Crown' which has orange-yellow segments in the central cluster). Often mass-planted on roadsides and roundabouts in towns.

Firth View Golspie	NC833019	hamlet	09/05/2011
Lochside	NC872355	hamlet	11/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
Backies	NC834017	hamlet	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
Lower Brora	NC908037	bungalows	11/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
Glen House Dunrobin Glen	NC784050	hamlet	10/05/2015
Camore Crescent Camore	NH777903	council houses	08/05/2015
West Kinnauld	NC732014	hamlet	16/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

N. 'Irene Copeland'

● gb 4

A beautiful double D4 WY, with white ruffled petals, the centre-most of which are pale creamy yellow.

N. 'Rippling Waters'

● gb 4

A highly distinctive D5 WW with a long, deeply yellow hypanthium. There are 3 flowers per stem in most cases, with petals creamy white, touched with yellow at the base. Mid season.

Main Street Brora	NC903039	street	07/05/2013
Ord Place Lairg	NC580058	council houses	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Little Ferry	NH805956	hamlet	14/05/2015

Group 6 WO: white petals, orange trumpet

N. 'Geranium' ● gb 4

This is much the commonest of the late-flowering multi-flowered WO cultivars. It is a fragrant D8 Daffodil with up to 6 medium-sized flowers (55mm diameter) with glistening, much-creased white petals and bright orange cups. One of the favourite daffodils for cutting.

Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
Helmsdale	ND026154	village	05/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013

N. 'Flower Record' ● gb 4

The commonest of the D2 white-petalled daffodils that have a broad orange rim to their yellow trumpets: D2 W YYO (or W YO).

R Brora in Brora	NC901039	riverbank	08/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011

N. 'Cragford' ● gb 1

A D8 WO, like an early-flowering Primrose Peerless, but with vivid orange rather than yellow trumpets. Flowers 53mm wide, in groups of 4-6 per stem. The white petals are flushed yellow at the base and are often very crinkled ("un-ironed"). Much earlier flowering than *N.* 'Geranium'.

N. 'Kilworth' ● gb 4

A neat D2 W-YO with yellow bases to the white petals, and a straight-sided expanding trumpet (triangular in section) that is yellow at the base and vivid orange at the mouth (the "eye" has a touch of green).

N. 'Bridal Crown' ● gb 4

The commonest of the small-flowered WO doubles with multiple flowers per stem. Like 'Cheerfulness' but with double petals as well as double cups, and smaller flowers.

N. 'Salome' ● gb 4

The only pink trumpet daffodil likely to be seen outside gardens. It is a D2 WP cultivar with smooth waxy pale cream petals and large, peach-pink trumpets with little flare at the mouth. The flowers are 90mm in diameter.

Rosehall Church	NC485012	churchyard	10/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Helmsdale	ND026154	village	05/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Pittentrail	NC726019	village	10/05/2015
Church of Scotland Rosehall	NC485012	churchyard	10/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Kilmain	NC871042	hamlet	11/05/2015
Overscaig Hotel	NC417232	hamlet	13/05/2015
Lairg	NC584063	village	13/05/2015

N. 'Orange Phoenix'

• gb 4

One of the oldest white doubles with orange segments: D4 WO. Simple and old-fashioned-looking.

Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
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N. 'Professor Einstein'

• gb 4

This is sometimes classified as D2 WR but it more often appears to be D2 WO or D3 WO where the short, broad orange trumped its very dark (verging on red).

Gartymore	ND014150	hamlet	05/05/2013
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Group 7 WR: white petals, short red-lined yellow trumpet

Narcissus poeticus L. *Pheasant's-eye Daffodil*

• gb 4

Narcissus poeticus subsp. **poeticus**

Narcissus majalis Curtis, nom. illegit.

Narcissus ornatus Haw.

Common in churchyards and on grassy banks in villages; the latest flowering of all the daffodils. The narrow red rim to the very short disc-shaped trumpet is distinctive. The position of the stigmas is diagnostic; 3 are exserted, and 3 are included in the throat. The cultivar *N.* 'Actaea' is the most commonly seen of this mid-season D9 W-YJR group.

Culdair	NC738044	hamlet	10/05/2015
Doll	NC878033	hamlet	11/05/2015
Allt Sgrigil	ND020174	hamlet	09/05/2015
Clashban	NH643964	hamlet	12/05/2015
St Callan's Rogart	NC738035	churchyard	10/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
West Shinness Lodge	NC529153	hamlet	13/05/2015
Overscaig Hotel	NC417232	hamlet	13/05/2015
Fuaran Ruairidh Badninish	NH763942	hamlet	17/05/2015

Glencassley Lodge NC441072 hamlet 16/05/2015

Narcissus poeticus var. **recurvus**

• gb 5

Very popular in vc. 107. This cultivar has reflexed, glistening white petals, and is the last common daffodil into flower. Found on even the most isolated crofts.

Badintagairt Glen Cassley	NC428102	croft	10/05/2011
Glen Cassley Lodge	NC441072	hamlet	10/05/2011
March Cottage Glen Cassley	NC444067	croft	10/05/2011
Rosehall Church	NC485012	churcyard	10/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Tomich	NC610049	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Gordonbush Lodge Glen Brora	NC844097	parkland	08/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Inverbrora	NC901036	roadside	08/05/2011
Kildonan Station	NC901217	railway	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
Coal Pit Road Brora	NC903040	village	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Kildonan Farm	NC910209	farm	11/05/2011
Kilmore Lothmore	NC973113	farm	12/05/2011
N Portgower	ND013137	roadside	08/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Navidale	ND034167	hamlet	08/05/2011
Ceanlocha Bonar Bridge	NH623919	hamlet	07/05/2011
Pulrossie Skibo Estate	NH725884	arable	09/05/2011
Skibo Castle N drive	NH728869	parkland	10/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Carnegie Golf Course	NH739871	links	10/05/2011
Carn Mhor Coul	NH800947	bungalows	09/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Dunrobin Castle wild garden	NC850007	parkland	17/05/2012
Dunrobin Castle formal garden	NC851008	parkland	17/05/2012
Big Burn Bridge Golspie	NC840005	woodland	17/05/2012
Kildonan Lodge	NC904223	hamlet	09/05/2015
Preas nan Sgiathanach	NC686095	hamlet	13/06/2015
West Clyne	NC905064	hamlet	14/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015

Overscaig Hotel	NC417232	hamlet	13/05/2015
Marrel	ND016173	hamlet	14/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
R Helmsdale by Kildonan Lodge	NC902220	riverbank	17/06/2015

Narcissus 'Actaea'

• gb 5

Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
Kinbrace	NC862317	hamlet	09/05/2015
Golspie	NC832000	village	08/05/2015
Ardachu	NC677036	hamlet	10/05/2015
Kildonan Lodge	NC904223	hamlet	09/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015

Narcissus poeticus subsp. **radiiflorus**

• gb 5

All 6 stamens are exerted or partly exerted, and the petals are narrow and non-overlapping.

Narcissus 'Woodland Star'

• gb 4

The only D3 WR that is commonly seen in these parts. The cup is of a deep red.

Navidale House Hotel	ND039158	parkland	05/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
St Callan's Rogart	NC738035	churchyard	10/05/2015

ASPARAGACEAE

Convallaria majalis L. *Lily-of-the-valley*

grh 5

Often planted in wild-looking situations and sometimes escaped from gardens. Most of our recent records are obvious garden relics.

Spinningdale Wood	NH666890	15/08/1997	Philip Entwistle
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NH68

Lairg Main Street	NC584063	street	10/04/2010
Clashmore	NH747895	village	10/07/2010
Rosehall	NC470021	village	12/07/2010
Bonar Bridge	NH611911	suburbia	12/07/2010
Ross Gardens Golspie	NC834004	council houses	14/05/2011
N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Brora Harbour	NC909037	village	12/05/2011
The Bridge Hotel Helmsdale	ND026154	street	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011

Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Embo	NH817928	village	23/06/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Stittenham Road Helmsdale	ND026155	walled gardens	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Johnstone Crescent Brora	NC904035	council houses	17/05/2012
Golspie S	NC824997	village	09/05/2015
Rosehall	NC470021	village	10/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Embo	NH816928	village	08/05/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Clashmore	NH745895	hamlet	17/05/2015

NVC: W 8

[Polygonatum multiflorum (L.) All. *Solomon's-seal*]
Convallaria multiflora L.

grh 5

An occasional garden escape, but most if not all of the escapees are *P. x hybridum* (see below).

Recorded from Easternness and the Moray coast.

NVC: W 8

Polygonatum x hybridum Bruggen *Garden Solomon's-seal*
Polygonatum x intermedium Boreau, non Dumort.

• grh 5

The perianth is larger than in *P. multiflorum* (15-22mm rather than 9-15mm) and stems slightly angled rather than round. The garden outcast is much commoner than the native species (above).

Doll Ford NC871044 01/06/2003 J.K. Butler

NC80

Newton Point NH711877 coastal grassland 10/07/2010
 Camore NH778903 council houses 12/07/2010

Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Backies	NC834017	hamlet	05/05/2013
Braefoot Portgower	ND010135	hamlet	05/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Bailenanaltan Spinningdale	NH676900	ruins	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Johnstone Crescent Brora	NC905036	council houses	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Duke Street Golspie	NC839002	suburbia	06/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Sleastery	NH643963	croft	09/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Firth View Backies Golspie	NC834017	hamlet	10/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Clashban	NH643964	hamlet	12/05/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
School Road Helmsdale	ND027155	village	14/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015

Maianthemum bifolium (L.) F.W. Schmidt *May Lily*

• grh 4

An uncommon garden plant in woodland gardens on the larger estates.

Maianthemum racemosum (L.) Link *False Spikenard*

• grh 4

Smilacina racemosa (L.) Desf.

An uncommon garden plant, rarely found as an outcast.

Skibo Castle NH737891 parkland 10/05/2011

Ornithogalum nutans L. *Drooping Star-of-Bethlehem*

• gb 4

A spectacular garden plant, introduced in plantations and parks, rare. This bulky, early flowering plant has upper bracts longer than the pedicels and the anthers have broad wings, ending in projecting triangular points.

Brenan Terrace Dornoch NH799897 council houses 14/05/2011

Also recorded from Easternness and the Moray coast.

Ornithogalum umbellatum L. *Star-of-Bethlehem* ● gb 5
Ornithogalum angustifolium Boreau

Meadows, pastures, osier holts, cornfields and grassy waste places; local and usually in very small quantity. It is an alien garden escape in vc. 107. The subspecies have not been worked out in vc. 107.

NC71 NC80 ND01

Ross Gardens Golspie	NC834004	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Castle Street Dornoch	NH795897	street	09/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Front Street Embo	NH817927	village	18/05/2012
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Navidale	ND037161	hamlet	14/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
School Road Helmsdale	ND027155	village	14/06/2015
Marrel	ND016173	hamlet	14/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Little Ferry	NH805956	hamlet	12/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Embo Dunes	NH817929	dune backs	11/06/2015
Little Ferry	NH805956	hamlet	14/05/2015

Scilla bifolia L. *Alpine Squill* ● gb 3

Much less common than the nodding *S. siberica* in churchyards and on banks, it has smaller, erect (not pendant) flowers and leaves sheathing the flowering stem.

Scilla bithynica Boiss. *Greek Squill* ● gb 3

In grass with other spring bulbs, but much the least common of the Squills with us.

Scilla siberica Haw. *Siberian Squill* ● gb 3

This is the most frequent of the *Scilla* with us. Occasional in churchyards and parkland throughout. The dark blue large flowers (tepals 12-16mm) face downwards (pendant), and the bracts are very small (1-2mm). Told from former *Chionodoxa* by the fact that the tepals are separate all the way to the base (not fused into a tube).

Helmsdale Station	ND020155	railway	06/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010

[*Scilla verna* Huds. *Spring Squill*] gb 4

The distribution of this plant is a classical demonstration of the ecological difference between the east-facing coast of Sutherland and the north-facing coasts of Caithness and the Moray Firth.

Recorded from Caithness and the Moray coast.

[*Scilla liliohyacinthus* L. *Pyrenean Squill*] • gb 3

Known by its broad leaves (10-30mm), numerous (5-15) erect flowers, and large bracts (10-25mm).

Recorded from Easternness and the Moray coast.

Scilla forbesii (Baker) Speta *Glory-of-the-snows* • gb 3
Chionodoxa forbesii Baker
Chionodoxa forbesii auct non Boiss.

This is the most commonly seen garden outcast of the former *Chionodoxas*. The petals are fused into a tube at the base.

Helmsdale Station	ND020155	railway	06/04/2010
Dornoch Main Street	NH798895	street	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Free Church Ord Place	NC580058	churchyard	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Rockview Place Helmsdale	ND033153	bungalows	05/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Skelbo Castle Cottage	NH793952	hamlet	08/05/2013

Scilla luciliae (Boiss.) Speta *Boissier's Glory-of-the-snow* • gb 3
Chionodoxa luciliae Boiss.

This is the few-flowered (one or two flowers per stem) taxon

Scilla sardensis (Whittall ex Barr) Speta *Lesser Glory-of-the-snows* • gb 3
Chionodoxa sardensis Whittall ex Barr

Camassia quamash (Persh) Green *Quamash* • gb 5

A rare outcast from gardens

Littleferry	NH804957	hamlet	08/05/2011
Dunrobin Castle	NC851008	parkland	17/05/2012

Hyacinthoides non-scripta (L.) Chouard ex Rothm. *Bluebell*

gb 4

Hyacinthus non-scriptus L.

Scilla non-scripta (L.) Hoffsgg. & Link

Scilla festalis Salisb.

Endymion non-scriptus (L.) Garcke

Woods and scrub. Frequent. There is no evidence that any populations of the wild plant are threatened by invasion of the garden plant (*H. non-scripta* x *H. hispanica*) or by “genetic pollution” through hybridization with *H. hispanica*. It is distinguished from the hybrid by the racemes which are pendant (not spreading) at the apex, the anthers are cream coloured (not blue), and the perianth is tubular (i.e. parallel-sided, not bell-shaped). White-flowered individuals are common in gardens in vc. 107, but uncommon in the wild.

NC40 NC41 NC50 NC51 NC60 NC63 NC70 NC71 NC74 NC80 NC81 NC82 NC91 NC92 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Wester Lonemore	NH757879	gorse scrub	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Maikle Kyle of Sutherland	NH595936	woodland	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Glen Cassley	NC468032	riverbank	10/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
N of Colaboll Loch Shin	NC553113	wet heath	13/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Pittentrail	NC726020	village	12/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
East Kinnauld Quarry	NC743014	quarry	13/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011

Loth Burn waterfalls	NC945107	woodland	08/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Astle	NH745919	hamlet	10/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Golspie Caravan Park	NH821982	links	14/05/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore	NH540990	woodland	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Craggie Birch Woods	NC881197	birch wood	20/06/2015
Killin Rock Strath Brora	NC862053	birch wood	11/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Culnara	NH625921	hamlet	08/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Golspie Big Burn	NC840007	woodland	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
The Mound Crag	NH762983	crag	12/05/2015
Kyloag	NH660911	hamlet	08/05/2015
Golspie Big Burn	NC840008	woodland	11/05/2015
Strath Oykel	NH496999	riverbank	12/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
opposite Marrel	ND022171	roadside	14/06/2015
Kildonan Lodge	NC904222	parkland	17/06/2015
Allt Breac Helmsdale	NC958186	stream	17/06/2015
Balblair	NH799973	hamlet	12/06/2015
Marrel	ND018172	woodland	14/06/2015
Marrel	ND016173	hamlet	14/06/2015
Laundry Road Lairg	NC586063	industrial	12/06/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
sea cliffs N of Helmsdale	ND035153	soft sea cliff	17/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
lower Allt Sgrigil wood	ND022175	woodland	14/06/2015
Marrel	ND018162	roadside	14/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
Achrimsdale	NC910067	hamlet	14/05/2015
Navidale	ND037161	hamlet	14/06/2015
Lonemore	NH764884	hamlet	17/05/2015

NVC: OV 27; U 20; W 6,8,10,12,14-16,21,22,25

Hyacinthoides x massartiana = H. non-scripta x H. hispanica *Garden Bluebell* • gb 5
Scilla x patula Lam. ex DC.

Ubiquitous garden plants. A common garden escape and garden outcast in ditches and on banks in villages. Seldom found in deep shade. Intermediate in all characters of both parents. Fertile, and often present in the absence of both parents. Most old records of *H. hispanica* probably belong here. Told from bluebell by its blue (not white) anthers and its bell shaped (not parallel-sided) flowers. The pink form is very common. There is absolutely no evidence that these plants are invasive of semi-natural woodland, nor that gene flow from them threatens native populations of bluebell.

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dunrobin Castle	NC850007	parkland	11/04/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Brora	NC910041	suburbia	11/07/2010
Dunrobin Castle	NC849005	coastal grassland	11/07/2010
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Tower Street Golspie	NC835006	council houses	14/05/2011
Kinbrace	NC863319	hamlet	11/05/2011
Lochside	NC872355	hamlet	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Kildonan Lodge	NC904222	hamlet	11/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Helmsdale Riverside	ND026154	woodland	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Spinningdale	NH674899	meadow	07/05/2011
Carnegie Golf Course	NH739871	links	10/05/2011
Astle	NH745919	hamlet	10/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Elizabeth Crescent Dornoch	NH804902	new houses	14/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Embo Links	NH816931	dune slacks	09/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Golf Course Golspie	NH826995	bungalows	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Church Street Golspie	NH828996	suburbia	08/05/2011
Golspie	NH832998	sea front	08/05/2011
Cromartie Road Dornoch	NH793896	town houses	18/06/2011

Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Navidale House Hotel	ND039159	coastal grassland	23/06/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Knockarthur	NC754066	hamlet	18/05/2012
Embo dunes	NH817930	sand dune	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Kildonan Lodge	NC904223	parkland	17/05/2012
Westgarty Lodge Culgower	NC989124	hamlet	17/05/2012
Crackaig Crofts Lothmore	NC964111	ruins	17/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
Uppat Place Brora	NC903034	council houses	17/05/2012
Skibo Golf Sheds	NH732872	waste ground	16/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Braefoot Portgower	ND013135	hamlet	05/05/2013
Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Main Street Brora	NC903391	street	07/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Hilton	NH804915	hamlet	04/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015
Dalchalm	NC911059	hamlet	19/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Brae Cottage Srath Carnaig	NH703987	hamlet	12/05/2015
Clashban	NH643964	hamlet	12/05/2015
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Fanich	NC879037	hamlet	11/05/2015
Lairg	NC579068	bungalows	10/05/2015
Rhives Farm Golspie	NC828004	hamlet	11/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Rosehall	NC470021	village	10/05/2015
Linside Strath Oykel	NH547991	hamlet	12/05/2015
NW Spinningdale	NH674899	hamlet	08/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Brora Golf Club	NC909039	suburbia	27/06/2014
Helmsdale Station	ND023155	railway	17/06/2015
sea cliffs N of Helmsdale	ND035153	soft sea cliff	17/06/2015

Embo Dunes	NH817929	dune backs	11/06/2015
High Croft Hilton of Embo	NH805915	hamlet	11/06/2015
Lonemore	NH764884	hamlet	17/05/2015
West Langwell	NC698088	hamlet	13/06/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Lairg	NC584063	village	13/05/2015
Navidale Hotel Helmsdale	ND039158	parkland	14/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Kinbrace Cemetery	NC859313	cemetery	16/06/2015
Clashmore	NH745895	hamlet	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Kildonan Lodge	NC904222	parkland	17/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
West Clyne	NC905064	hamlet	14/05/2015
Invershin Hall Strath Oykel	NH576972	hamlet	12/05/2015
Little Ferry	NH805956	hamlet	12/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Lindsay Street Golspie	NH830998	council houses	14/06/2015

Hyacinthoides hispanica (Mill.) Rothm. *Spanish Bluebell*

• gb 5

Scilla hispanica Miller

Endymion hispanicus (Miller) Chouard

Scilla non-scripta (L.) Hoffsgg. & Link subsp. *hispanica* (Miller) Letsw.

Roadsides and grassy waste places near houses; in small quantity. Much over-recorded in the past for the hybrid (see above). Racemes erect, anthers blue, perianth bell-shaped.

Carrol Crescent Brora	NC904037	council houses	17/05/2012
Dunrobin Castle garden	NC851008	parkland	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Lonemore	NH764884	hamlet	17/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Academy Street Brora	NC903044	bungalows	13/06/2015

Hyacinthus orientalis L. *Hyacinth*

• gb 3

Widespread in churchyards, usually blue-flowered, but whites and pinks occur. Often planted on graves, or put out on graves as potted plants (the bulbs are sometimes planted after flowering, sometimes thrown away, where they persist quite happily on the churchyard compost heap). Sometimes on waste ground in villages as a garden outcast. Long persistent in abandoned gardens.

Dornoch Main Street	NH798895	street	10/04/2010
Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Dornoch Academy	NH789899	roadside	10/04/2010
Dornoch Eaglefield Road	NH796895	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Lairg Main Street	NC584063	street	10/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
N Helmsdale	ND026156	village	08/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Littleferry	NH804957	hamlet	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Main Street Brora	NC903391	street	07/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Embo	NH817928	village	08/05/2013
Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Lower Brora	NC908037	bungalows	11/05/2015

Muscari neglectum Guss. ex Ten. *Grape-hyacinth*

• gb 3

Muscari atlanticum Boiss. & Reuter

Muscari racemosum Lam. & DC non (L.) Mill.

Railway banks, very rare. Alien (but thought to be native in Suffolk and Cambridgeshire). Over recorded for *M. armeniacum* (see below). The basal fertile flowers are almost blackish-blue (not bright blue).

Muscari armeniacum Leichtlin ex Baker *Garden Grape-hyacinth*

• gb 4

Waste ground, walls, roadsides and railway banks, locally frequent but never far from houses. This is much the commonest *Grape-hyacinth* found as a garden escape. It is often abundant in dumped topsoil, being moved about both as seeds and bulbs. Told from *M. neglectum* by flower colour (bright blue rather than blackish-blue) and smaller fertile flowers (3.5-5.5mm rather than 3.5-7.5mm).

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dornoch The Meadows	NH799893	suburbia	10/04/2010
Dornoch River Street	NH798895	suburbia	10/04/2010
Bonar Bridge Tulloch Road	NH608921	suburbia	10/04/2010
Golspie Biblical Garden	NC837001	park	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Clashmore	NH747895	village	10/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011

N Brora	NC904051	bungalows	12/05/2011
Park Court Brora	NC904040	bungalows	08/05/2011
Dalchalm	NC909056	village	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Skibo Castle walled garden	NH737891	gardens	10/05/2011
Astle	NH745919	hamlet	10/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Knockarthur	NC754066	hamlet	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Carrol Crescent Brora	NC904037	council houses	17/05/2012
Seaforth Place Brora	NC903035	bungalows	17/05/2012
Dugden Drive Brora	NC902034	bungalows	17/05/2012
The Crask Inn	NC523247	hamlet	04/05/2013
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Pittentrail	NC726019	village	04/05/2013
Drummuie Offices Golspie	NH816995	hamlet	04/05/2013
High Street Golspie	NH830997	village	05/05/2013
Helmsdale	ND026154	village	05/05/2013
Strath Helmsdale	ND021174	rocky stream	05/05/2013
Rosehall	NC470020	village	06/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Littleferry	NH806956	hamlet	07/05/2013
Alistair Road Golspie	NH827995	semidetached	07/05/2013
Church Street Golspie	NH828997	bungalows	07/05/2013
Embo	NH817928	village	08/05/2013
Castle Street Dornoch	NH794897	village	08/05/2013
Struie Road Dornoch	NH794896	bungalows	08/05/2013
The Meadows Dornoch	NH795896	bungalows	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Clashmore	NH747895	village	08/05/2013
Tulloch Road Bonar Bridge	NH609918	council houses	08/05/2013
Tulloch Place Bonar Bridge	NH609917	terrace	08/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
High Street Lairg	NC584063	village	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Pittentrail	NC726019	village	10/05/2015
Lairg	NC579068	bungalows	10/05/2015
Grange Road Dornoch	NH800896	village	29/06/2014
Rosehall	NC470021	village	10/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Ord Place Lairg	NC580058	council houses	10/05/2015
Craigton	NH627960	hamlet	08/05/2015
Clashban	NH643964	hamlet	12/05/2015
Lairg	NC585063	village	10/05/2015
Hilton of Embo	NH805915	hamlet	08/05/2015
Tulloch Road Bonar Bridge	NH609920	council houses	12/05/2015
Rhilochan	NC742068	hamlet	11/05/2015
Lairg	NC581068	council houses	10/05/2015

Golf Road Helmsdale	ND023159	bungalows	09/05/2015
Badfluich Rosehall	NC495004	hamlet	10/05/2015
High Croft Hilton of Embo	NH805915	hamlet	11/06/2015
West Shinness Lodge	NC529153	hamlet	13/05/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Clashmore	NH745895	hamlet	17/05/2015
School Road Dornoch	NH790898	suburbia	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
West Clyne	NC905064	hamlet	14/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

[**Asparagus officinalis** L.]

○ grh 7

[**Asparagus officinalis** subsp. **officinalis** *Garden Asparagus*]

Alien on dry waste ground. Uncommon but persistent. Host plant of the beetle *Crioceris asparagi*.

[**Ruscus aculeatus** L. *Butcher's-broom*]

● n 1

Woodland, plantations and hedge-banks. Planted elsewhere in woodlands for game cover, and in hedge bottoms and neglected parts of larger gardens; sometimes long persistent. Local and uncommon.

Recorded from Easternness and the Moray coast.

NVC: W 14,15

[**Yucca recurvifolia** Salisb. *Curved-leaved Spanish-dagger*]

● n 7

This is a thicket-forming species with horizontal stolons, capable of regenerating new leaf rosettes following mechanical damage. It is long persistent as a garden outcast, even in deep shade.

Yucca gloriosa L. *Spanish-dagger*

● n 7

This is the plant that forms an upright, branched trunk in old age.

Johnstone Crescent Brora NC905036 council houses 01/07/2013

[**Cordyline australis** (G. Forst.) Endl. *Cabbage-palm*

● m 7

Dracaena australis G. Forster

This is just about hardy in vc. 107. Sometimes in sheltered gardens in towns, but not yet found as an outcast.

NC82 NC91

Braehead Terrace Portgower ND008134 village 13/07/2011

[**Agave americana** L. *Centuryplant*]

● n 7

This remarkable plant does not grow out of doors in vc. 107, but it is grown in pots and these are put out of doors for the summer to adorn patios and terraces. They are occasionally found as outcasts on tips once they have outgrown their pots. The species is a common alien in Mediterranean countries, where its massive flowering spikes, often held at a jaunty angle, are such a familiar feature of coastal environments.

COMMELINACEA

Tradescantia virginiana L. *Spiderwort* ● hs 5
Tradescantia x andersoniana W. Ludw. & Rohw., nom. inval.

A frequent garden plant in perennial borders and at the edge of shrubberies. A frequent outcast, often seen on banks and rough waste ground in villages.

Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Overscaig Hotel Loch Shin	NC417232	garden	08/09/2012
Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Camore Gardens Camore	NH777903	council houses	30/06/2013
Ospisdale House	NH713897	parkland	11/07/2013

[**Tradescantia fluminensis** Vell. *Wandering-jew*] ● hs 5
Tradescantia albiflora hort., ? an Kunth

Perhaps the commonest houseplant and the most tolerant of total neglect. Often thrown out on tips but seldom surviving the winter.

TYPHACEAE

Sparganium erectum L. *Branched Bur-reed* hyd 6

Lochans, occasional in the lowlands. Inflorescence branched, tepals dark-tipped. The distributions of the 4 subspecies within vc. 107 remain to be worked out. The 4 are distinguished by the shape of the fruits: 2 have a distinct shoulder below the beak (subsp. *erectum* has a flat-topped fruit and subsp. *microcarpum* has a domed top), while 2 are gradually rounded below the beak (subsp. *neglectum* has ellipsoid fruits gradually tapered into the beak and subsp. *oocarpum* (not known in Scotland) has subglobose fruits abruptly contracted into the beak).

NC70 NC80 NC81 NC91 ND01 NH69 NH78 NH79

Auchintoul	NH518992	riverbank	12/07/2011
Linsidemore Wood	NH530990	swamp	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011

NVC: A 9, 20; M 27; OV 26,30; S 3-8, 12, 14-16, 18, 22, 26; W 5

Sparganium erectum subsp. *neglectum* (Beeby) K. Richt. hyd 6

The fruits are pale brown, ellipsoid, and gradually tapered into the beak (see Fig 893 in Stace)

NC70

Sparganium emersum Rehmann *Unbranched Bur-reed*

hyd 6

Sparganium simplex Hudson, nom. illegit.

Grass-like leaves in deeper (to 1.0m), faster-flowing water than *S. erectum*. The inflorescence is unbranched and the tepals are not dark-tipped. Local and rare.

Loch Evelix	NH737876	12/07/1983	BSBI
Achentoul		15/07/1989	M. Murray

NC50 NC70 NC83 NH78

NVC: A 5, 8, 11, 15, 21; S 16

[Sparganium x diversifolium Graebn. = **S. angustifolium x S. emersum]**

Recorded from Easternness.

Sparganium angustifolium Michx. *Floating Bur-reed*

hyd 6

Peaty acid lochs and pools. The bract of the lowest female head is long (more than 10cm) and there are usually two male heads. Widespread and locally common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC70 NC71 NC73
NC74 NC80 NC81 NC82 NC83 NC91 NH59 NH69 NH78 NH79

Garvault Hotel	NC782386	pond	11/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Overskibo ponds	NH724903	pond	14/05/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Loch Coire na Bruaiche	NC635165	lochan	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011

NVC: A 7, 9, 13, 23, 24; S 8

Sparganium natans L. *Least Bur-reed*

hyd 6

Sparganium minimum Wallr.

Lochans, occasional. The bract of the lowest female head is short (less than 10cm) and there is only one male head.

NC31 NC41 NC42 NC50 NC52 NC60 NC61 NC63 NC70 NC72 NC73 NC74 NC83 NH59 NH69
NH79

Loch Coire na Bruaiche	NC635165	lochan	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011

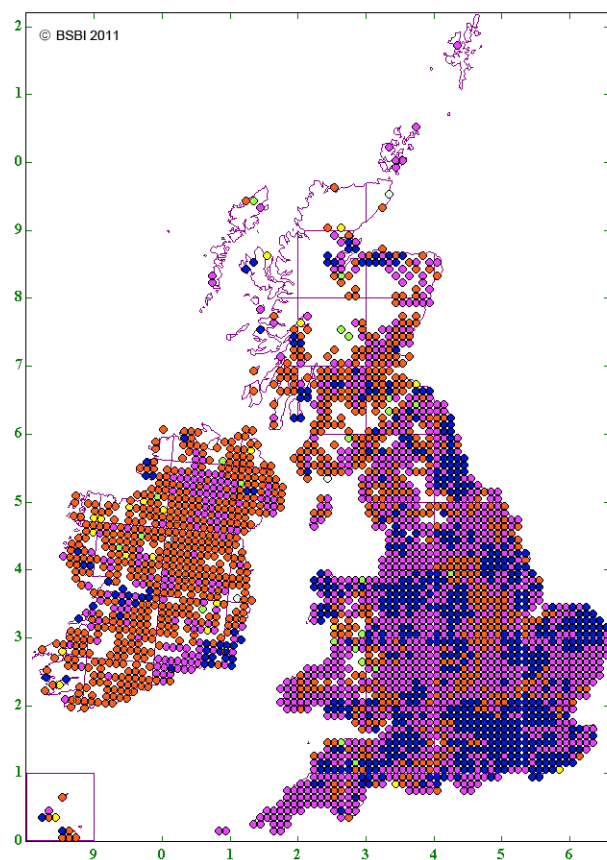
Dall na Ceardaich NC620160 peaty stream 16/07/2011

NVC: A 7, 8, 9, 13, 24; S 4

Typha latifolia L. *Bulrush*

hyd 6

Margins of ponds. Very local and rare. Close to the northern limit of its British distribution in East Sutherland (see below):



Dornoch NH803894 15/07/1955 John Anthony

NC60 NH78 NH79 NH88

Dornoch River Street	NH798895	suburbia	10/04/2010
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011
Skibo Castle car park	NH735892	waste ground	09/05/2011
Embo Muir	NH802936	swamp	04/07/2013

Witches Pool RDGC	NH800892	pond	08/07/2013
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
backwater of R. Oykeell	NC469018	wetland	12/05/2015

NVC: no data from this northern limit of the British distribution.

[*Typha x glauca* Godr. = *T. latifolia* x *T. angustifolia*]

Intermediate in all its characters and highly sterile. There is a slight gap (< 3cm) between the male and female parts of the inflorescence. Almost certainly under-recorded.

Recorded from the Moray coast.

[*Typha angustifolia* L. *Lesser Bulrush*] hyd 6

Not recorded in northern Scotland despite the hybrid record (above).

JUNCACEAE

[*Juncus subnodulosus* Schrank *Blunt-flowered Rush*] hr 6

Recorded from Easternness.

[*Juncus alpinoarticulatus* Chaix *Alpine Rush*] hr 6

Juncus alpinus Vill. nom. illeg.

Recorded from West Sutherland (Inchnadamph & Ben Loyal), Easternness and Caithness.

Juncus articulatus L. *Jointed Rush* hs 6

Juncus lampocarpus Ehrh. ex Hoffm.

Wet meadows, pond-sides, ditches, margins of streams, wet heaths, etc; common in all the districts. Tepals obtuse or shortly acuminate, the outer with erect apical points. The inflorescence looks black (rather than straw-coloured) from a distance. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59
NH68 NH69 NH78 NH79 NH89

Telecoms Mast The Crask	NC522259	waste ground	11/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Lothmore gravel pit	NC970105	pond	12/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Fhearna Boathouse	NC746331	lake shore	20/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Mound Rock	NH770980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011

Torball Farm NW	NH740990	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Riverbank SW of Tuiteam	NC431000	riverbank	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Golspie Industrial Estate	NH822996	waste ground	13/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Boundary Track	NC885402	forest road	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Shin	NC529118	rocky shore	02/07/2013
Dornoch Lochans	NH777889	lochans	04/07/2013
Embo Muir	NH802934	grassland	04/07/2013
Torrish Burn Kildonan	NC969187	ravine birch wood	05/07/2013
Coill' an Tosgaire Oykel	NC340515	riverbank	09/07/2013
Tulloch	NH618932	bog	09/07/2013
Achvaich	NH710941	riverbank	09/07/2013
R Evelix at Achosnich	NH729936	riverbank	09/07/2013
Creagandamp	NC733170	streamside crag	10/07/2013
Coirfrois Burn Pollie Hill	NC751152	stream	10/07/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Loch Tarvie	NH755962	lochan	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
etc.			

NVC: A 22; M 13, 22, 24, 27; MG 4, 5, 8, 9, 10-13; U 15; OV 26, 29, 30, 32, 35; S 4, 12, 14, 19, 22, 23; SM 19, 20; SD 13-17

[**Juncus x surrejanus** Druce ex Stace and Lambinon = **J. articulatus x J. acutiflorus**]

In some places, this hybrid is commoner than either of the parents. Intermediate in tepal size and shape, and of low fertility. The two parent species have 80 and 40 chromosomes, respectively.

Recorded from West Sutherland and Easternness.

Juncus acutiflorus Ehrh. ex Hoffm. *Sharp-flowered Rush*

hs 7

Moist woods, wet meadows, waste ground and ditches Tepals acuminate, the outer with recurved, then slightly hooked apical points. The inflorescence looks straw-coloured (rather than black) from a distance. Widespread but uncommon.

NC30 NC31 NC32 NC40 NC41 NC42 NC52 NC60 NC61 NC62 NC63 NC70 NC71 NC74 NC81
NC82 NC83 NC90 NC91 NC92 NC93 ND01 NH59 NH69 NH78 NH79 NH89

Auchintoul	NH518992	riverbank	12/07/2011
Ben Griam Mor SW crags	NC799390	crags	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Ausdale	NH626955	wet heath	09/07/2013
Loch Lannsaidh	NH737940	wet heath	09/07/2013
Craggie Water	NC899189	stream bank	27/06/2014
Rosehall Forest Trails	NC479018	pine plantation	28/06/2014
A389 Braemore Grudie Burn	NC543026	roadside	24/06/2014
Fiag Lodge	NC454281	waste ground	26/06/2014
Badintagairt Glen Cassley	NC427097	wet grassland	28/06/2014
The Carnegie Road Garvary	NH635990	wet grassland	25/06/2014
Grudie Burn	NC552034	stream bank	24/06/2014

NVC: M 13, 16, 21, 24, 27; MG 8, 12, 13; S 1, 6, 8, 12, 18, 19; W 1, 4; SD 17; MC 10

Juncus bulbosus L. *Bulbous Rush*

hs 6

Juncus supinus Moench

Juncus kochii F. Schultz

Juncus bulbosus L. subsp. *kochii* (F. Schultz) Reichg.

An aquatic plant of moist heaths, boggy places, rutted tracks, ditches and peaty ponds in heathy situations, often submerged; locally abundant, especially in drains where the peat has been disturbed. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH68 NH69 NH78 NH79 NH89

Overskibo Curling Pond	NH727902	pond	14/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
An Chrom-allt	NC718310	roadstone quarry	20/06/2011
Rimsdale Burn	NC739398	stream	22/06/2011
Kilbraur Wind Farm	NC767070	lochan	22/06/2011
Corriekinloch Hydro	NC398253	hamlet	08/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
Creag an Sgamhlainn	NC370328	disturbed ground	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Portgower	ND010134	shingle beach	07/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Raemore/Gruids Woods	NC558035	wet heath	19/05/2012
Allt Rugaidh Bheag	NC345051	rocky stream	19/05/2012
Carn Garbh Glen Sletdale	NC906145	dry heath	01/07/2013
Allt Car Beag Loch Shin	NC480162	wet heath	02/07/2013

Allt Bad a'Ghordanaich	NC495151	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC513130	wet heath	02/07/2013
Allt a'Bhann Loch Shin	NC515127	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC520121	wet heath	02/07/2013
The Airde Loch Shin	NC525142	dry heath	02/07/2013
Cnoc a'Choire Leacach	NC526118	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC531116	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC539108	wet heath	02/07/2013
Cnoc a'Choire Leacach S	NC543104	wet heath	02/07/2013
N of Sallachy	NC544959	wet heath	02/07/2013
Allt Salachaidh Sallachy	NC547891	wet heath	02/07/2013
Coul Links	NH804948	dune slacks	04/07/2013
Upper Suisgill Kildonan	NC897250	streamside	05/07/2013
Braegrudie Strath Brora	NC717105	riverbank	07/07/2013
Meall an Fheur Loch	NC357317	summit heath	08/07/2013
Coill' an Tosgaire Oykel	NC340515	wet heath	09/07/2013
Tulloch	NH618932	bog	09/07/2013
Loch Buidhe	NH657982	stony shore	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Creag Dhubh	NC705174	wet heath	10/07/2013
Creag Dhubh	NC713172	wet heath	10/07/2013
Cnoc na Feannaig	NC717195	wet heath	10/07/2013
Ben Armine Lodge	NC720181	wet heath	10/07/2013
Creagandamph	NC736164	wet heath	10/07/2013
Coirfrois Burn Pollie Hill	NC751152	stream	10/07/2013
Pollie	NC758159	croft	10/07/2013
etc.			

NVC: A 7, 8, 9, 11, 22, 23, 24; S 4, 8, 18, 19; M 1, 4-11, 14, 15, 23, 29, 30-32, 34, 35, 37, 38; OV 34

Juncus bulbosus subsp. **kochii** (F. Schultz) Reichg *Bulbous Rush* hs 6
Juncus supinus Moench
Juncus kochii F. Schultz

There are 6 (not 3) filaments, and the capsule is smaller (less than 2.5mm). Local and rare in the uplands.

Juncus biglumis L. *Two-flowered Rush* hs 6



Juncus biglumis Michael Koltzenburg

Recorded from bare stony places towards the summit of Ben More Assynt (1960). These are its northern-most records in the British Isles. Very local and rare.

Ben More Assynt 2500 ft 15/07/1959 D.A. Ratcliffe

NC31 NC32

Juncus triglumis L. *Three-flowered Rush* hs 6

Boggy and rocky places in the mountains. Ben More Assynt (1827). Local and rare.

Ben More Assynt		16/07/1959	D.A. Ratcliffe
Creag na h'Uidhe NE side		15/07/1973	A.G. Kenneth
Coire a' Mhadaidh	NC305209	12/07/1998	Gordon Rothero

Juncus castaneus Sm. *Chestnut Rush* hs 6



Juncus castaneus P J Llewellyn

Recorded from springs towards the summit of Ben More Assynt (1960). These are its northern-most records in the British Isles. Very local and rare.

Ben More Assynt 2500 ft 15/07/1959
E-facing crags on Ben More Assynt 15/07/1977

D.A. Ratcliffe
D.A. Ratcliffe

NC31 NC 32

[***Juncus maritimus*** Lam. *Sea Rush*]

hs 6

Recorded from Easter Ross, Easternness and the Moray coast.

Juncus squarrosus L. *Heath Rush*

hr 6

Wet heath, cottongrass bogs and seasonally damp acid grasslands. Also on compacted ground and by paths. The objects like ants' eggs commonly seen on the flower heads are the larval cases of the seed-mining moth *Coleophora alticolella*. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Loch Merkland	NC364331	wet heath	13/05/2011
Duchally Lodge	NC388166	riverbank	10/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
Langwell Hill	NC409120	wet heath	10/05/2011
Glen Cassley swimming hole	NC413116	stream	10/05/2011
Glen Cassley	NC456050	wet heath	10/05/2011
Loch Gaineamhach	NC515258	wet heath	11/05/2011
A839 watershed	NC521017	wet heath	10/05/2011
Watershed at The Crask	NC521259	wet heath	11/05/2011
Rimsdale	NC737399	wet heath	11/05/2011
Craggie Beg	NC741079	wet heath	12/05/2011
Rimsdale Hill	NC760393	wet heath	11/05/2011
Cnoc Bad a Ghille Dhuibh	NC788366	wet heath	11/05/2011
Loch Achnamoine	NC815322	wet heath	11/05/2011
Kinbrace Hill	NC870288	roadside	11/05/2011
Meall a Bheallaich (196m)	NC883404	wet heath	11/05/2011
Cnoc Bad na h-Eiris	NC887254	dry heath	11/05/2011
Glen Loth	NC945111	dry heath	08/05/2011
Lothmore gravel pit	NC969105	heath	12/05/2011
E Loch Buidhe	NH673983	wet heath	13/05/2011
Garskelly Strath Carnaig	NH710983	wet heath	13/05/2011
Clashmore Wood	NH757898	pine wood	09/05/2011
etc.			

NVC: CG 10, 11; U 2, 4-7, 10, 16; M 6, 7, 10, 11, 15-21, 31, 32, 34; H 4, 9, 10, 12, 14, 16, 18, 19, 22

Juncus tenuis Willd.

• hs 6

Juncus macer Gray

Juncus dudleyi Wieg.

Juncus tenuis Willd. var. *dudleyi* (Wieg.) F.J. Herm.

Tracks, paths, forest rides, golf courses and roadsides on compacted acid soils. Uncommon but likely to spread.

NC50 NC70

Linsidmore Wood	NH534991	roadside	12/07/2011
Raemore Wood Gruids	NC540046	grassland	24/06/2014
Raemore Wood Gruids	NC542045	conifer plantation	24/06/2014

NVC: not yet studied

[*Juncus compressus* Jacq. *Round-fruited Rush*]

grh 6

The outer 3 tepals are rounded, and the anthers are 0.5-1mm long, less than 2 times as long as the filaments

Recorded from Easter Ross.

Juncus gerardii* Loisel. *Saltmarsh Rush

grh 6

Salt marshes and saline marshy meadows. Told from *J. compressus* by the longer style (0.5-0.8mm rather than 0.1-0.3) and bigger anthers (1-2mm rather than 0.5-1mm). Frequent on the coast.

NC80 NC90 ND01 NH69 NH78 NH79 NH88 NH89

Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Balblair Wood Loch Fleet	NH804973	salt marsh	10/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Links E	NH790880	salt marsh	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	salt marsh	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Loch Fleet N shore	NH804974	saltmarsh	07/05/2013
Dornoch Airstrip Windsock	NH800883	dune slacks	08/05/2013
Dornoch Wind Sock	NH800883	dune slacks	30/06/2013
Dornoch Common Good	NH801882	salt marsh	30/06/2013
Dornoch Common Good	NH804881	salt marsh	29/06/2014
N Loch Fleet	NH800971	salt marsh	12/06/2015

NVC: SM 13, 15-20, 24, 28; SD 3, 14; MG 13; S 4, 19

Juncus trifidus* L. *Three-leaved Rush

grh 6



Juncus trifidus Jerzy Opiola

Rock ledges and barish places on mountains in the west above 240m. Occasional.

Ben Hee	15/08/1964	D.A. Ratcliffe
Meallan a Chuail	15/07/1973	A.G. Kenneth
Creag na h'Uidhe	15/07/1973	A.G. Kenneth

NC31 NC32 NC33 NC43 NC52 NC62 NC63

Ben Hee	NC420320	upland	13/07/2011
Ben Hee	NC422337	mountain ridge	13/07/2011
Ben Hee	NC424338	mountain ridge	13/07/2011
Meallan Liath Mor	NC400320	mountain ridge	13/07/2011

NVC: H 13, 17, 19, 20; CG 11, 12; U 7-12, 14, 18

[**Juncus foliosus** Desf. Leafy Rush]

grh 6

Recorded from muddy fields in West Sutherland.

Juncus bufonius L. *Toad Rush*

th 5

Juncus minutulus V. Krecz. & Gontch.

Salt marsh, sand dunes, disturbed ground, moist arable land, fields, tracks, woodland rides and muddy margins of ponds and other places where water has stood in winter. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH49 NH68
 NH69 NH78 NH79 NH89

rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Meall an t-Socaich	NC773332	gravel pit	20/06/2011
Garbh-allt Garvauld Hotel	NC781389	stream	21/06/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
Gordonbush Lodge	NC844096	parkland	10/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Brora Bridge	NC905039	village	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Caplich Estate	NC358212	birch wood	06/05/2013
Navidale	ND034168	hamlet	01/07/2013
Allt Car Beag Loch Shin	NC480162	wet heath	02/07/2013
Allt Bad a'Ghordanaich	NC495151	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC513130	wet heath	02/07/2013
Allt a'Bhann Loch Shin	NC515127	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC520121	wet heath	02/07/2013
The Airde Loch Shin	NC525142	dry heath	02/07/2013
Cnoc a'Choire Leacach	NC526118	wet heath	02/07/2013
Loch Shin	NC529118	rocky shore	02/07/2013
Cnoc a'Choire Leacach	NC531116	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC539108	wet heath	02/07/2013
Cnoc a'Choire Leacach	NC543104	wet heath	02/07/2013
N of Sallachy	NC544959	wet heath	02/07/2013
Allt Salachaidh Sallachy	NC547891	wet heath	02/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Cyderhall Farm Cuthill	NH764892	arable	04/07/2013
Embo House	NH803920	arable	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Carn Liath	NC867139	lane	05/07/2013
Academy Street Brora	NC902446	dry banks	07/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Achinchanter rN of Dornoch	NH800903	disturbed ground	21/06/2015
Raemore Wood Gruids	NC542045	conifer plantation	24/06/2014
Fiag Lodge	NC454281	waste ground	26/06/2014
A389 Braemore Grudie Burn	NC543026	roadside	24/06/2014
Raemore Wood Gruids	NC540046	grassland	24/06/2014
Dalbhat on the Craggie road	NC902213	track	27/06/2014
The Carnegie Road	NH637981	wet heath	25/06/2014
Fiag Road	NC463230	roadside	26/06/2014
Anderson Court Dornoch	NH791895	waste ground	29/06/2014
Raemore Wood Gruids	NC531049	conifer plantation	24/06/2014
Fiag Road	NC457256	roadside	26/06/2014
Grudie Burn	NC552034	stream bank	24/06/2014
Badintagairt Glen Cassley	NC428101	croft	28/06/2014

Cnoc na Cloich-bhuaile	NC523043	new roads	24/06/2014
Meall Mor W flank	NH645968	roadside	25/06/2014
Raemore Wood Gruids	NC546034	conifer plantation	24/06/2014
Fiag Road	NC465210	roadside	26/06/2014
Dalbhat on the Craggie road	NC898210	track	27/06/2014
Brora Golf Club	NC909039	suburbia	27/06/2014
Fiag Road	NC456270	roadside	26/06/2014
Craggie Road	NC888206	track	27/06/2014
etc.			

NVC: MG 11, 13; OV 2, 6, 9, 19-21, 30, 31, 35, 36; S 15, 18, 23; M 29, 35; SM 23; SD 3, 17

Juncus ranarius Songeon & E.P. Perrier *Frog Rush* th 5

Juncus ambiguus auct. non Guss.

Damp brackish habitats on the coast. Told from *J. bufonius* by the inner tepals rounded and mucronate (not acute) and the capsule at least as long as the inner tepals. Very close to *J. bufonius*, differing from it by a somewhat capitate inflorescence, with several flowers appearing in fascicles (not solitary), and by the truncate (not subacute) fruit. Occasional.

Helmsdale ND034152 07/08/1999 BSBI

NC90 NC91 ND01 NH89

NVC: not studied.

[Juncus subnodulosus Schrank *Blunt-flowered Rush*] hs 7

Juncus obtusiflorus Ehrh. ex Hoffm.

Fens, marshes and wet bogs; very local and declining. Told from *J. bulbosus* by the fact that *J. subnodulosus* has rhizomes and lacks a swollen stem base, and by the shape of the tepals which are obtuse rather than acute.

Recorded from Easternness.

Juncus balticus Willd. *Baltic Rush* hs 6



Juncus balticus John Somerville.

Maritime dune slacks on bare grassy ground. Occasional at the coast. Rarely on disturbed ground inland.

NC32 NH78 NH79 NH88 NH89

Glen Cassley Hydro	NC369202	bare ground	10/07/1998 Gordon Rothero
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Dunes S	NH800883	sand dunes	14/07/2011
Dornoch Common Good	NH800881	damp grassland	11/06/2015

NVC: not studied.

[**Juncus filiformis** L. *Thread Rush*]

hs 6

Recorded from lake edges in Easterness and the Moray coast.

[Juncus inflexus L. *Hard Rush*]

hs 6

Juncus glaucus Sibth.

Wet meadows, pond-sides, river-sides, roadsides, commons, especially addicted to stiff clay soils. This is the blue-grey, narrow-leaved rush of wet meadows, riverbanks and rough waste ground in southern Britain. Very local and rare in northern Scotland.

Recorded from Easternness.

Juncus effusus L. *Soft-rush*

hs 6

Marshes, wet ditches, damp grassland, soggy woodland rides, moist heaths, sand dunes, swamps, roadsides and woods, preferring neutral or acid soils. Told from *J. conglomeratus* by the stem which is shiny and smooth (not ribbed) below the inflorescence. Widespread and common in many habitats.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: M 4, 5, 6, 8, 15, 16, 21-29, 32, 35; MG 5, 6, 8, 9, 10, 13; OV 26-28, 30, 32, 35; S 4-9, 11-15,
17-19, 23, 26, 28; U 2, 4, 5, 19; W 1-8, 10, 21; SD 17

[Juncus x kern-reichgeltii Jansen & Wacht. ex Reichg. = J. effusus x J. conglomeratus]

Recorded from Caithness and the Moray coast.

Juncus conglomeratus L. *Compact Rush*

hs 5

Juncus subuliflorus Drejer

Damp waste ground, wet fields, ditches, heaths, woodland rides and marshes on acid soils. Told from *J. effusus* by the stem which is dull and ribbed (not smooth) below the inflorescence. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Maikle Wood Viewpoint	NH605948	dry heath	18/06/2011
Rimsdale Forest	NC748390	roadside	20/06/2011
Halmadarie	NC696319	wet heath	20/06/2011
Garbh-allt	NC784403	stream	21/06/2011
Cnoc na h-lolaic	NC692348	forest	21/06/2011
Palm Loch	NC708411	loch side	21/06/2011
Preas nan Sgiathanach	NC684097	wet heath	22/06/2011
Achnahuie	NC709080	wet heath	22/06/2011
Achnahuie	NC716072	ditch	22/06/2011
Dunrobin Glen	NC812038	stream	22/06/2011
N of Green Loch	NC720400	roadside	22/06/2011
Craggie road junction	NC744075	roadside	10/09/2012
Ben Uarie rocky stream	NC934159	streamside	09/09/2012

Glen Loth watershed	NC935158	roadside	09/09/2012
Kildonan birch wood	NC909204	birch wood	09/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Coastguard Lookout Ord	ND055172	coastal heath	05/05/2013
Caplich Estate	NC358212	birch wood	06/05/2013
Cnoc an Torra Mhoir	NC773108	wet heath	07/05/2013
Glen Sletdale	NC902157	stream bank	01/07/2013
Creag a'Bhodaich Sletdale	NC911149	stream bank	01/07/2013
Creag a'Chrionaich Sletdale	NC924115	dry heath	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
Sallachy Memorial Cairn	NC547904	park	02/07/2013
PROSAMO sites Sallachy	NC560656	birch wood	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Achormlarie Forest	NH693949	forest road	09/07/2013
Creag Dhubh	NC705174	wet heath	10/07/2013
Creag Dhubh	NC713172	wet heath	10/07/2013
Cnoc na Feannaig	NC717195	wet heath	10/07/2013
Ben Armine Lodge	NC720181	wet heath	10/07/2013
Creagandamph	NC736164	wet heath	10/07/2013
Coirfros Burn Pollie Hill	NC751152	stream	10/07/2013
Pollie	NC758159	croft	10/07/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Achany Bog	NH686895	bog	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Loch Tarvie	NH755962	lochan	11/07/2013
etc.			

NVC: M 15, 23, 24, 26, 27; OV 27; S 8, 27; W 4, 8

Luzula pilosa (L.) Willd. *Hairy Wood-rush*

hs 4

Juncoides pilosum Morong

Juncus pilosus L.

Woods, thickets and stream-sides on nutrient-poor soils, and amongst heather on moorlands. Basal leaves more than 4mm wide; inflorescence reflexed in fruit. Widespread and locally frequent.

NC30 NC31 NC40 NC42 NC50 NC60 NC62 NC63 NC70 NC71 NC72 NC74 NC80 NC81 NC82
NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Tressady Oak Wood	NC697041	woodland	13/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011

Tormore Glen Brora	NC789106	stream	12/05/2011
Allt a Chuilinn	NC821032	stream	09/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Kildonan Station	NC901217	railway	11/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
Overskibo ponds	NH724903	pond	14/05/2011
Overskibo Curling Pond	NH727902	pond	14/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
Migdale Wood	NH652913	birch wood	18/06/2011
Kildonan Burn Falls	NC911216	stream	19/06/2011
Achnahuie	NC716072	ditch	22/06/2011
Wooded cliffs of Allt Choll	NC935090	wooded stream	23/06/2011
Salmon ladder	NH740980	composite	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Golspie Burn	NC831016	pine plantation	18/05/2012
Culdrain	NC739043	oak woodland	18/05/2012
The Bank Rogart	NC734028	birch wood	18/05/2012
Milnafua Bridge Rogart	NC732026	wooded stream	18/05/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Strath Carnaig W	NH723983	birch wood	18/05/2012
Strath Carnaig C	NH735983	birch wood	18/05/2012
Strath Carnaig E	NH744984	birch wood	18/05/2012
Glen Loth	NC943118	streamside	17/05/2012
Carn Bran Glen Loth	NC941121	broch	17/05/2012
Glen Sletdale	NC935125	birch wood	17/05/2012
Beinn Dhorain	NC929146	streamside	17/05/2012
Loist Kildonan	NC914200	railway	17/05/2012
Achue	NH681904	birch wood	16/05/2012
Shin Woods	NH576978	woodland	16/05/2012
Shin Woods	NH575985	woodland	16/05/2012
Shin Creek Achany	NC574001	woodland	16/05/2012
Strath Helmsdale	ND022171	birch wood	05/05/2013
Knockarthur Junction	NC763612	wet heath	05/05/2013
Oldtown Rock	NC853861	birch wood	05/05/2013

Loch Brora	NC856790	stream bank	05/05/2013
Loch Brora	NC858756	birch wood	05/05/2013
Killin Rock	NC862521	birch wood	05/05/2013
opposite Lubcroy Lodge	NC363171	conifer plantation	06/05/2013
opposite Lubcroy Lodge	NC375145	conifer plantation	06/05/2013
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
Carn Garbh Glen Sletdale	NC906142	crag	01/07/2013
Carn Garbh Glen Sletdale	NC906134	crag	01/07/2013
Allt a'Choire Riabhaich	NC909129	wooded stream	01/07/2013
Creag a'Bhodaich Sletdale	NC914136	crag	01/07/2013
Glen Sletdale	NC915161	crag	01/07/2013
Glen Sletdale	NC927125	bracken	01/07/2013
Glen Sletdale Bridge	NC937127	bracken	01/07/2013
PROSAMO sites Sallachy	NC560656	birch wood	02/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
Meall Odhar Dunrobin Glen	NC787609	wet heath	06/07/2013
Meall Dubh Dunrobin Glen	NC794645	wet heath	06/07/2013
Loch Horn	NC795568	wet heath	06/07/2013
Meall Meadhoin	NC800674	wet heath	06/07/2013
Ben Horn lower slopes	NC804586	wet heath	06/07/2013
Ben Horn mid slopes	NC805626	wet heath	06/07/2013
Ben Horn mid slopes	NC805626	wet heath	06/07/2013
R Brora	NC714101	ravine birch wood	07/07/2013
Ben Tarvie	NH750963	crag	11/07/2013
etc.			

NVC: W 10, 11, 14, 15, 17-19; H 12, 16; U 19

Luzula sylvatica (Huds.) Gaudin *Great Wood-rush*

hs 5

Juncus sylvaticus Hudson

Juncoides sylvaticum Kuntze

Woods, stream sides, wet cliffs, thickets and heathy places, but also in the open on mountain slopes. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC62 NC63 NC70
NC71 NC72 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59 NH68
NH69 NH78 NH79 NH89

Dornoch Cathedral	NH797897	churchyard	10/04/2010
Ord of Caithness	ND057179	roadside	11/07/2010
Ord of Caithness	ND058176	coastal heath	11/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Loch Ailsh E shore	NC316102	wet grassland	12/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Shin Falls	NH577993	woodland	12/07/2010
Maikle Kyle of Sutherland	NH595936	woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010

West Merkland	NC384329	stream	13/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Glen Cassley swimming hole	NC413116	stream	10/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Lairg Dam Cottage Lochside	NC578069	hamlet	13/05/2011
Pittentrail	NC727020	woodland	12/05/2011
Balclaggan Rock birch wood	NC730042	woodland	12/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
Ascoile Glen Brora	NC824107	stream	12/05/2011
Backies Golspie	NC830021	woodland	09/05/2011
Big Burn Golspie	NC834014	stream	07/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
East Clyne	NC893062	stream	12/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
R Brora in Brora	NC901039	riverbank	08/05/2011
N Brora	NC904051	bungalows	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Kilphedir Lodge R Helmsdale	NC989186	stream	11/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
R Helmsdale	ND023158	riverbank	08/05/2011
Helmsdale Riverside	ND026154	woodland	08/05/2011
Ord Burn old A9 bridge	ND052181	woodland	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Spinningdale	NH674896	woodland	10/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
R Evelix Achosnich	NH729935	riverbank	10/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Little Torboll birch woods	NH749984	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
etc.			

NVC: W 8-11, 15-17, 20; M 8, 18-21; MG 2; CG 10-12, 14; U 4, 5, 7, 13, 15-17, 19

Luzula luzuloides (Lam.) Dandy & Wilmott *White Wood-rush* hs 5

Very well established and thoroughly naturalized in the parkland at Skibo Castle, but not yet seen anywhere else.

Carnegie Wodland	NH732892	parkland	09/05/2011
Skibo Castle N aspect	NH736891	parkland	09/05/2011

Luzula campestris (L.) DC. *Field Wood-rush* hs 3

Juncus campestris L.,

Juncoides campestre Morong

Acid grasslands, sand dunes, fields, pastures, lawns, mires and heaths. Told from *L. multiflora* by large anthers and short filaments; the anthers are more than 2.5 times the length of the filaments (not 0.8 to 2.2 times). Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 7, 10-14; M 23, 25; H 7, 10, 11, 16, 18; MG 1, 3, 4-6, 8; OV 27; U 1, 3, 4, 5, 20, W 11;
SD 7-9, 11, 12, 16, 19; MC 9, 10; OV 27

Luzula multiflora (Ehrh.) Lej. *Heath Wood-rush*

hs 4

Juncus campestris L. var. *multiflorus* Ehrh.

Juncoides multiflorum Morong

Damp heaths, woodlands and grasslands on acid soils. Told from *L. campestris* by the relative lengths of the anthers and filaments (see above). Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: W 10, 11, 17-20, 25; M 5-8, 10, 12, 13, 15-17, 22-25; H 4, 7, 10, 14, 16, 18-20; CG 10, 11,
12, 14; U 2, 4-7, 13-15, 17, 20

The subspecies have not been studied in detail in vc. 107, but there are records for two:

Luzula multiflora subsp. ***congesta*** (Thuill.) Arcang.

Luzula congesta (Thuill.) Lej.

Told by its larger seeds (1.2-1.5mm rather than 0.8-1.1mm) and its tight, compact flower head.

NC41 NC71 NC74

Rhivra Spinningdale	NH667907	roadside	10/07/2010
Ord of Caithness	ND057179	roadside	11/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Coul Links	NH805946	dune slacks	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Knock Craggie	NC328054	roadside	12/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Duchally Lodge	NC388166	riverbank	10/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011

Glen Cassley	NC468032	riverbank	10/05/2011
Riemarstaig watershed	NC609056	dry heath	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Saw Mill Golspie	NC841012	woodland	09/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Achinnearin Strath Kildonan	NC900239	woodland	11/05/2011
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Overskibo ponds	NH724903	pond	14/05/2011
etc.			

Luzula multiflora* subsp. *multiflora

The flowers are in clearly stalked corymbose clusters, like a group of lollipops. Seeds smaller (0.8-1.1mm).

Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Knock Craggie	NC328054	roadside	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Duchally Lodge	NC388166	riverbank	10/05/2011
Merkland Lodge	NC400296	hamlet	13/05/2011
S of Corriekinloch Loch Shin	NC403243	woodland	13/05/2011
Glen Cassley	NC468032	riverbank	10/05/2011
Rosehall Church	NC485012	churchyard	10/05/2011
Shinness Lodge	NC530150	hamlet	13/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Tressady Oak Wood	NC697041	woodland	13/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Sciberscross Glen Brora	NC780099	woodland	12/05/2011
Garvault Hotel	NC782386	hamlet	11/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
R Brora Balnacoil	NC804110	river gravel	12/05/2011
Loch Achnamoine	NC815322	wet heath	11/05/2011
Ascoile Glen Brora	NC824107	stream	12/05/2011
Loch Brora Birchwoods	NC855081	woodland	08/05/2011
Kinbrace Hill	NC870288	roadside	11/05/2011
Clynelish Moss Glen Brora	NC880051	cotton grass bog	08/05/2011
East Clyne	NC893062	stream	12/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Duible Strath of Kildonan	NC926197	stream	11/05/2011
Kilmore Lothmore	NC973108	improved grassland	12/05/2011
Kilphedir Lodge R Hemsdale	NC989186	stream	11/05/2011
Caen Hill R Helmsdale	ND012175	woodland	11/05/2011
Old Helmsdale	ND022160	hamlet	08/05/2011
Sidhean Mor (199 m)	NH646972	wet heath	13/05/2011
W Loch Buidhe	NH653982	wet heath	13/05/2011

Kyloag Migdale	NH662909	woodland	07/05/2011
Strath Carnaig birch woods	NH724983	woodland	13/05/2011
Overskibo ponds	NH724903	pond	14/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
S Embo links	NH815920	links	14/05/2011
Golspie Caravan Park	NH821982	links	14/05/2011
Etc.			

Luzula arcuata (Wahlenb.) Sw. *Curved Wood-rush*

hs 5

Open stony ground on the highest mountains. Ben More Assynt (1824). The seed appendage is inconspicuous and very small (not $\frac{1}{4}$ or more of the length of the rest of the seed). Very local and rare.

Ben More Assynt		15/07/1889	C.E. Salmon
Conival N ridge	NC300202	12/07/1998	Gordon Rothero

NC32

NVC: U 9, 10, 12

Luzula spicata (L.) DC. *Spiked Wood-Rush*

hs 5



Luzula spicata Erling Olafsson

Open stony ground and rock ledges on the western mountains. Known at once by its drooping, spike-like inflorescence. Occasional.

Ben Griam Mor		15/07/1962	M. McC. Webster
Ben More Assynt		15/08/1964	D.A. Ratcliffe
Ben Hee		15/07/1973	A.G. Kenneth
Carn Dearg		15/07/1973	A.G. Kenneth
Ben More Assynt		15/07/1986	J.K. Butler det. M. Murray
Dubh Loch Mor	NC320190	11/07/1998	Gordon Rothero
Ben More/Conival ridge	NC307201	12/07/1998	Gordon Rothero
Gorm Loch Mor	NC701238	18/07/1999	Gordon Rothero
Ben Hee	NC420320	13/07/2011	Hawker, Edwards & McIntosh

NC31 NC32 NC33 NC43 NC52 NC63 NC72 NC83

Coire Mhadaidh Conival	NC307203	wet rocks	10/08/2012 Gordon Rothero
Creag Mhor Ben Armine	NC702238	crag	12/07/2013

NVC: M 12, 34; H 19; CG 11, 12, 14; U 8-10, 11, 14, 18

CYPERACEAE

Eriophorum angustifolium Honck. *Common Cottongrass* hel 5

Wet acid bogs, bog pools, sand dunes and marshes. More typical of hollows than of hummocks, which tend to have *E. vaginatum*. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: W 4; M 1-22, 24, 25, 29-32, 37, 38; H 5, 9; U 5, 6; S 4, 10, 24, 27; SD 15, 17

Eriophorum latifolium Hoppe *Broad-leaved Cottongrass* hel 5

Base-rich marshes and flushes, much more local than *E. angustifolia*. Told from *E. angustifolium* by the presence of minute, forward-pointing bristles on the stalks of the spikelets, and the sharper angles to the stems.

Strath Grudie	NC535054	15/07/1987	T. Keatinge
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NC30 NC31 NC40 NC41 NC42 NC50 NC60 NC71 NH59 NH79

Glen Fiag	NC450240	29/06/1998	Gordon Rothero
West of Bealach Easach	NC564247	30/06/1998	Gordon Rothero
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero
Loch Sheila	NC452096	06/07/1999	Gordon Rothero

NVC: M 10

Eriophorum vaginatum L. *Hare's-tail Cottongrass* hel 4

Eriophorum brachyantherum sensu Tutin, non Trautv. & C. Meyer

Wet peaty places, especially on moorland bogs and heaths. Widespread and common. More typical of hummock-tops than of hollows, which tend to have *E. angustifolium*.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH49
NH59 NH68 NH69 NH78 NH79 NH89

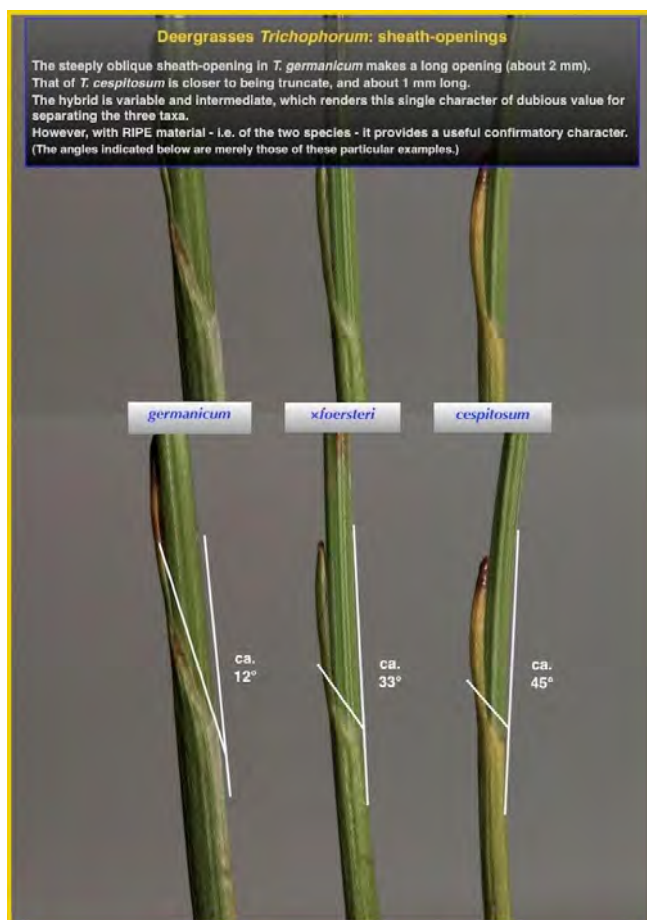
NVC: W 4; M 2-4, 6, 7, 15-20; H 12, 22; U 2, 5-7

[**Trichophorum cespitosum** (L.) Hartm. *Deergrass*] hs 5
Scirpus cespitosus L.

Bogs, wet moors and heaths, in wetter places than *T. germanicum*. Very rare, and not recorded from any of the adjacent vice counties, save for a single record from the coast of north-west Sutherland. Told by the shape of the opening of the uppermost leaf sheath (transverse rather than oblique), and its smaller spikelets.

Trichophorum x foersteri (Swan) D.A. Simpson = **T. cespitosum x T. germanicum**
Trichophorum cespitosum nothosp. *foersteri* Swan

Sterile plants with an intermediate angle of the leaf-sheath. The spikelets often fall early (caducous), leaving characteristic bare stems.



From Jeremy Roberts very useful comparison web-site (2015):
<http://www.edencroft2.demon.co.uk/index.html>

Recorded from vc. 107, despite the apparent absence of one of the parents (see above). It tends to be recorded wherever it is explicitly looked for.

NC83

Ben Griam Beg E slope	NC860400	wet heath	15/07/2011 Eric Meek
Knockfin Heights	NC911337	blanket bog	19/06/2015

Trichophorum germanicum Palla

hs 5

Scirpus cespitosus subsp. *germanicus* (Palla) Brodd.

Trichophorum cespitosum subsp. *germanicum* (Palla) Hegi

Bogs, wet moors and heaths. Widespread and abundant but over-recorded for the hybrid (see above).

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC91 NC92 NC93 ND01 NH59
NH69 NH79

NVC: M 1, 7, 10, 11, 15-21; H 4, 10, 12-17, 20-22; CG 11; U 5, 6, 7

Bolboschoenus maritimus (L.) Palla *Sea Club-rush* hel 8
Scirpus maritimus L.

Wet muddy places in estuaries by the sea. Very local and rare. Much commoner on Black Isle and the Moray coast. Not seen recently.

NH69

NVC: SM 20, 28; SD 3, 15

[*Scirpus sylvaticus* L. *Wood Club-rush*] hel 6

Shady swamps on acid soils. Local and rare, but typically dominant where it occurs.

NVC: OV 30; W 5

Recorded from Easternness and the Moray coast.

Schoenoplectus lacustris* (L.) Palla *Common Club-rush hyd 6
Scirpus lacustris L.

Lochans, on nutrient-rich mud. This is the club rush that stands 2m proud of the water surface, often forming dense thickets. It has 3 stigmas and the glumes are smooth (not microscopically densely papillose). Occasional, but locally abundant.

Lochan na Gaoithe	NC600000	15/08/1976	M.J. Marshall
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NC31 NC32 NC41 NC42 NC51 NC60 NC61 NC70 NC73 NC74 NC80 NC82 NC83 NH69 NH79

Loch Langwell	NC412132	07/07/1999	Gordon Rothero
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Loch Airighe Mhor	NC680020	lochans	16/07/2011
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NVC: A 9, S 8, 12, 13, 16

Schoenoplectus tabernaemontani* (C.C. Gmel.) Palla *Grey Club-rush hyd 6
Scirpus tabernaemontani C.C. Gmel.
Scirpus lacustris ssp. *glaucus* Hartm.
Schoenoplectus lacustris subsp. *tabernaemontani* (C.C. Gmel.) Syme

Told from *S. lacustris* by its shorter stems (to 1.5m rather than to 3m), which are narrower at their midpoint (3-8mm rather than c.10mm), and by the glumes which are densely papillose near the apex and midrib (not smooth). The nut is 2-2.5mm (not 2.5-3mm). The ecology is different too; the plant is more likely to be found in brackish wetlands and dune slacks near the sea than in lochans. Local and rare, but perhaps under-recorded.

Mound Alderwoods NH770979 20/07/1986 M.J. Marshall det. S. Hooper

NH79

NVC: S 12, 13, 20, 21

Eleocharis palustris subsp. **vulgaris** Walters *Common Spike-rush* hel 6
Scirpus palustris L.
Eleocharis vulgaris (Walters) Á. Löve and D. Löve

Shallow ponds, marshes, wet meadows; common and generally distributed.

NC30 NC31 NC32 NC40 NC41 NC43 NC50 NC52 NC60 NC61 NC63 NC70 NC73 NC74 NC80
 NC81 NC82 NC83 NC84 NC91 ND01 NH59 NH68 NH69 NH79 NH89

NVC: M 22, 28, 29; MG 8; A 22; S 4, 8, 9, 12, 14, 15, 19-23, 27, 28; SD 14, 15, 17; OV 29-32, 35

[Eleocharis palustris subsp. **palustris**] hel 6
Eleocharis palustris (L.) Roemer and Schultes subsp. *microcarpa* Walters

The spikelets have more than 40 flowers, and the glumes from the middle of the spikelet are 2.7-3.5mm (rather than 3.5-4.5mm in ssp. *vulgaris*). Not recorded from eastern Scotland.

Eleocharis uniglumis (Link) Schult. *Slender Spike-rush* hel 6
Scirpus uniglumis Link

Marshes close to the sea; the saltmarsh NVC community SM20 is dominated by this species. Told from *E. multicaulis* by the truncate (not oblique) angle of the uppermost leaf sheath, by its bi-convex (not 3-angled) nuts, and by the possession of 2 (not 3) stigmas. Locally frequent in the Kyle but uncommon elsewhere.

Loch Fleet 10/07/1974 P. Adam
 The Mound NH 790960 15/07/1977 Derek Ratcliffe

NC60 NC70 NH59 NH69 NH79 NH89

Dornoch Dunes Central NH800890 sand dunes 14/07/2011
 Dornoch Links W NH780880 salt marsh 14/07/2011

NVC: M 22; MG 12; S 20, 21; SM 19, 20, 28

Eleocharis multicaulis (Sm.) Desv. *Many-stalked Spike-rush* hel 7
Scirpus multicaulis Smith

Wet peaty places in acid bogs, pond sides and wet places in heathland. Told from *E. uniglumis* by the oblique (not truncate) angle of the uppermost leaf sheath, by its 3-angled (not bi-convex) nuts, and by the possession of 3 (not 2) stigmas. Occasional.

Loch a Lagain NH640950 13/07/1983 BSBI
 Gearnsary NC732321 07/07/1998 Gordon Rothero

NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC71 NC73 NC74 NH59
NH69 NH78 NH89

Mound Rock NH770980 composite 11/07/2011

NVC: M 1, 14, 16, 21, 29, 30; H 5; A 22

Eleocharis quinqueflora (Hartmann) O. Schwarz *Few-flowered Spike-rush* hel 6
Scirpus quinqueflorus F. Hartmann
Eleocharis pauciflora (Light.) Link

Damp peaty places on moors and in dune slacks. The lowest glume is larger than in *E. acicularis* (2.5-5mm rather than 1.5-2.5mm) and the stems are rounder and wider (more than or equal to 0.5mm rather than less than 0.5mm and ridged). Widespread and common.

Loch Fleet 10/07/1974 P. Adam
The Mound NH 790960 15/07/1977 Derek Ratcliffe

NC30 NC31 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71 NC72
NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC91 NC92 NC93 NH69 NH79

Fhearna Boathouse	NC746331	lake shore	20/06/2011
Above the pony track	NC790389	wet heath	21/06/2011
Mound Rock	NH770980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Garvault Hotel	NC791388	flush	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011

NVC: M 9, 10, 11, 13; S 19; SM 19, 20; SD 14, 16

[Eleocharis parvula (Roem. & Schult.) Link ex Bluff, Nees & Schauer *Dwarf Spike-rush*] hel 6
Wet muddy places in estuaries by the sea.

Recorded from Easternness.

Isolepis setacea (L.) R. Br. *Bristle Club-rush* th 5
Scirpus setaceus L.

Damp bare places in dunes, woodland rides, marshes, damp winter-flooded pastures and margins of ponds on acid soils. Widespread and locally frequent.

NC30 NC31 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC70 NC71 NC74 NC80 NC83 NC90
NC91 NC92 ND01 NH68 NH69 NH79

Camore Wood	NH771894	gravel pit	11/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Leathad nan Toll Beinn	NH696959	forest road	13/07/2010
Mound Rock	NH770980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
N of Braemore Grudie Burn	NC548031	inbye grassland	24/06/2014

NVC: A 13, 22, 23

Eleogiton fluitans (L.) Link *Floating Club-rush*

hyd 6

Scirpus fluitans L.

Isolepis fluitans (L.) R. Br.

Floating in lochans and ditches of acid water; locally common in the heathy parts.

Loch Migdale	NH620910	24/08/1975	U.K. Duncan
Loch an Lagain	NH650950	24/08/1975	U.K. Duncan
Loch Airidhe Bheg	NC700020	15/08/1976	M.J. Marshall

NC30 NC31 NC50 NC52 NC60 NC62 NC70 NC71 NC73 NC74 NH69 NH79 NH89

NVC: A 22-24; M 29, 30

[*Blysmus compressus* (L.) Panz. ex Link *Flat-sedge*]

hel 6

Schoenus compressus L.

Scirpus caricis Retz

Scirpus compressus (L.) Pers., non Moench

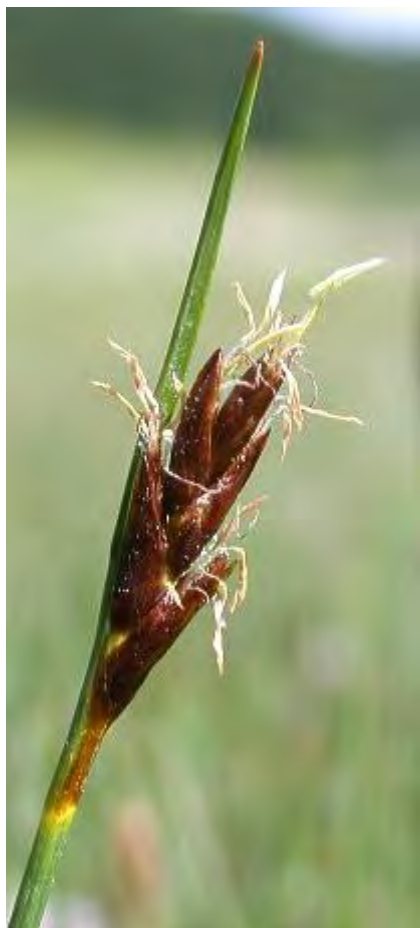
Marshes and damp meadows on nutrient-rich soils; very local, but common where it occurs.

Recorded from the Moray Firth.

NVC: SM 19

Blysmus rufus* (Huds.) Link *Saltmarsh Flat-sedge

hel 6



Blysmus rufus Carl Farmer

Grassy salt marshes and dune slacks. Locally frequent on the coast.

Loch Fleet	NH700900	10/07/1974	P. Adam
Creich shore	NH600800	15/07/1989	J.K. Butler
The Mound	NH790960	15/07/1977	D.A. Ratcliffe

NC80 NH68 NH78 NH79 NH89

Dornoch Common Good Lands NH805883 salt marsh 30/06/2013

NVC: SM 19

Schoenus nigricans L. *Black Bog-rush*

hs 5

Base-rich flushes. Damp peaty places, heaths, bogs and marshes. Widespread but uncommon.

Torrish Helmsdale		17/07/1962	BSBI
Glen Fiag	NC45-24-	29/06/1998	Gordon Rothero
West of Bealach Easach	NC564247	30/06/1998	Gordon Rothero
W slope of Ben Griam Mor	NC795398	01/07/1998	Gordon Rothero
Gearnsary	NC732321	07/07/1998	Gordon Rothero
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero
Loch Sheila	NC452096	06/07/1999	Gordon Rothero

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC60 NC61 NC62 NC63 NC70 NC71 NC73
NC74 NC81 NC83 NC84 NC91 NH69 NH79 NH89

Longuish Road Junction	NH644919	wet heath	10/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Meall a Bheallaich (196m)	NC883404	wet heath	11/05/2011
Salmon ladder	NH740980	wet heath	11/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Garvault Hotel	NC791388	flush	15/07/2011
E of Sallachy	NC545095	wet heath	16/07/2011
E of Sallachy	NC520080	wet heath	16/07/2011
Loch Airighe Mhor	NC690020	wet heath	16/07/2011
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
Craggie Water	NC913192	rocky stream	17/05/2012
Meall nan Aighean	NC693307	wet heath	12/07/2013
An Stoc-bheinn S flank	NC645017	stream head	25/06/2014
Meall na Tulchainn S flank	NH652989	wet heath	25/06/2014
NW of Braemore	NC539031	Schoenus flush	24/06/2014
Leathad Creagach	NC624028	wet heath	25/06/2014
Beinn a' Mhadaidh	NC768409	wet heath	18/06/2015
Langwell Hill Glencassley	NC410119	wet heath	16/05/2015
E of Achatomlinie	NC661102	new woodland	13/06/2015
The Crask summit	NC524260	wet heath	13/05/2015
Rimsdale Hill	NC762393	roadside	16/06/2015

NVC: M 9-15, 17, 24, 25; H 3, 5, 6; CG 13; S 24; MC 10

[**Cladium mariscus** (L.) Pohl *Great Fen-sedge*]
Schoenus mariscus L.

hel 7

Shaded fens, very local and rare.

Recorded from Caithness and coastal West Sutherland.

NVC: M 13,22,24; S 4,25

Rhynchospora alba (L.) Vahl *White Beak-sedge*
Schoenus albus L.

hel 7

Wet acid peaty places in heaths and bogs. Occasional in the west of vc. 107.

Glen Cassley 28/08/1987 S.M. Turner

NC30 NC40 NC41 NC42 NC73 NC83

Oykel Bridge E	NC390000	wet heath	12/07/2011
Loch Thurnaig	NC399003	lochan	12/07/2011
Sgialach Coire	NC370290	wet heath	13/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC860410	wet heath	15/07/2011
Ben Griam Beg	NC860400	wet heath	15/07/2011
S of Forsinard lochans	NC869419	wet heath	15/06/2015
Allt Lon a' Chuil	NC735448	wet heath	16/06/2015
Loch Achnamoine	NC811326	loch side	16/06/2015
Achrimsdale fank Borrobol	NC794260	wet heath	15/06/2015
Cnoc an Laith-bhaid Mhoir	NC765284	wet heath	15/06/2015

NVC: M 1, 2, 14, 16-18, 21, 29

[*Rhynchospora fusca* (L.) W.T. Aiton *Brown Beak-sedge*] hel 7

Recorded from the coast of West Sutherland.

[*Kobresia simpliciuscula* (Wahlenb.) Mack. *False Sedge*] hel 7

Recorded from Easter Ross (Tarbat Ness)

Carex paniculata* L. *Greater Tussock-sedge hs 5

Alder woods, wet meadows, fens and margins of streams. The utricles are conspicuously winged in the upper half. Local and rare.

Loch Fleet NH780959 15/06/1998 W. Hay

ND01 NH79

NVC: M 27; OV 26,32; S 3,7,23,25; W 1,5,6

[*Carex x boeninghauseniana* Weihe = *C. paniculata* x *C. remota*]

Recorded from Easternness and the Moray coast.

Carex diandra* Schrank *Lesser Tussock-sedge hs 5
Carex teretiuscula Gooden.

In a bog. The plant has long rhizomes and hence is not tussock-forming. The lower bract is very short and not leaf-like, and the blackish brown utricles have long beaks (more than half the length of the utricles). Wet peaty places. Very rare.

Rogart 17/07/1968 M. McC. Webster

NC60 NC70

NVC: M 13

[Carex otrubae Podp. *False Fox-sedge*]

hs 6

Carex vulpina L.

Carex nemorosa Reber., non Schrank nec Lumn. ex Honck.

Carex cuprina (Sidor ex Heuffel) Nendtv. ex A. Kerner, nom. inval.

Ditches on clay soils, damp woodland rides, wet grassland, roadsides and pond margins. Ligule acute, leaf sheaths not wrinkled, utricle not split in the beak.

NVC: S 4,5,14,18,22,23,26

Recorded from Easternness and the Moray coast.

[Carex x pseudoaxillaris K. Richt. = *C. otrubae* x *C. remota*]

Carex x *axillaris* Gooden., non L.

Recorded from Easternness and the Moray coast.

[Carex spicata Huds. *Spiked Sedge*]

hs 6

Carex muricata auct., non L.

Carex contigua Hoppe

Dry grassy heaths, roadsides and woodland margins, much commoner on heavy clay than on acid sands. Told from *C. muricata* by its roots and stem bases purple-tinged, the ligule obtuse, longer than wide, and the utricles which are thickened and corky at base. Probably over-recorded in the past on the acid sands for *C. muricata*.

Recorded from Easternness and Easter Ross.

[Carex muricata subsp. *pairii* (F.W. Schultz) Celak. *Small-fruited Prickly-sedge*]

hs 6

Carex pairii F. Schultz

Carex muricata L.

Acid grasslands, dry grassy banks, wood margins and hedge-banks. Told from *C. spicata* by its yellow-green (not purple) stem bases, and its squat, rounded ligule (not long and pointed). The utricles are smaller (2.6-3.5mm not 4-5mm), stick out less (not at a virtual right angle), are truncate, and not thickened at the base.

Recorded from Easternness and the Moray coast.

Carex arenaria L. *Sand Sedge*

hs 6

Sand dunes and sandy sea shores. Locally frequent.

NC80 NC90 NC91 ND01 NH69 NH78 NH79 NH88 NH89

Carnegie Golf Course	NH742872	<i>Cladonia</i> heath	10/07/2010
Carnegie Golf Course	NH731871	shingle beach	10/07/2010
Carnegie Golf Course	NH733872	gorse scrub	10/07/2010
Glaslochan Links N Brora	NC915059	sand dunes	11/07/2010

Glaslochan Links N Brora	NC915062	blow-out	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Balblair Wood Loch Fleet	NH815978	pine plantation	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Brora Golf Course	NC915058	links	12/05/2011
Carnegie Golf Course W	NH726871	links	10/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Royal Dornoch Golf Course	NH805895	links	14/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Royal Dornoch Golf Course	NH811911	<i>Juniperus</i> dunes	14/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Coul Links	NH801949	sand dunes	23/06/2011
Coul Links	NH804950	dune heath	23/06/2011
Kintradwell Links	NC933085	sand dunes	23/06/2011
Brora Golf Course	NC912041	sand dunes	23/06/2011
Cuthill Links	NH748863	coastal grassland	24/06/2011
Dornoch Links W	NH780880	sand dunes	14/07/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Dornoch Dunes N	NH805893	sand dunes	20/05/2012
Meikle Ferry Slipway	NH728870	sand dunes	16/05/2012
Dornoch Firth Road Bridge	NH747871	roadside	30/06/2013
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Coul Links	NH805951	heather dunes	04/07/2013
Coul Links	NH805952	sand dune	04/07/2013

etc.

NVC: SD 6-19; OV 2; MG 11; U 1

[**Carex disticha** Huds. *Brown Sedge*]

hs 6

Wet meadows and marshes. Like *C. arenaria* but the terminal spike is male only at the apex (not all male), the glumes are less than 5.5mm, and the leaf sheaths are herbaceous (not hyaline, save for the apical rim) on the back.

NVC: M 22,27; OV 26,29; S 23

Recorded from Easter Ross and Caithness.

[**Carex chordorrhiza** L. f. *String Sedge*]

hs 6

Very wet acid bogs. A Red Data Book species recorded from Altnaharra (1897) and Mudale (1907) in West Sutherland.

Carex maritima Gunnerus *Curved Sedge*

hs 6

*Carex maritima* JC Schou

Sand dunes, saltmarsh edge, and damp sandy places. Dornoch Common Good Lands (south of the grass air strip) and Brora. Very local and rare. No recent records, despite searches in 2009, 2010, 2011 and 2015.

Lothmore Sands	NC91-03 -	15/07/1821	Hooker, Sir W.J.
Dornoch	NH80-88-	15/07/1920	Druce, Dr G.C.
Dornoch	NH80-88-	01/06/1958	Anthony, Mr J.
Dornoch	NH815880	29/08/1959	Russell, Mrs B.H.S.
Dornoch	NH802884	19/07/1969	David, Dr R.W.
Dornoch Common Good	NH802883	02/08/1999	Pearman, Mrs A.V.

NVC: not reported

Carex remota L. *Remote Sedge*

hs 6

Wet woods, shady hedge-banks, especially in ditches that are permanently damp. Bright, grass-green tussocks, with narrow leaves and small, distant flower heads. Told from *C. divulsa* by its lowest bract, which is leaf-like, and exceeds the length of the inflorescence. Local and rare. Cambusmore (1960), Brora (1958).

NC40 NC80 NC81 NH78 NH79

Linsidmore Wood	NH498998	riverbank	12/07/2010
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Saw Mill Golspie	NC840011	pond	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Mound Rock	NH770980	woodland	11/07/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Torboll Farm S	NH750980	woodland	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass roadside	NH501994	woodland	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Big Burn Golspie falls	NC840009	woodland	05/05/2013
Ospisdale House	NH713897	parkland	11/07/2013
The gorge Golspie Big Burn	NC836012	woodland	10/05/2015
Golspie Big Burn	NC840008	woodland	11/05/2015
The falls Golspie Big Burn	NC834013	woodland	10/05/2015

NVC: W 1,5,8,14

Carex leporina L. *Oval Sedge*

hs 6

Carex ovalis Gooden.

Damp grassland, woodland rides, and heaths on acid soils. The spike is longer than wide, and the utricles are winged in the upper half. The English name comes from the egg-shaped inflorescences. Widespread and common.

NC30 NC31 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71
NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH69 NH78
NH79 NH89

Loch Migdale N shore	NH632916	loch side	10/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Halmadarie	NC697314	rushy grassland	20/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
Navidale House Hotel	ND040159	sea cliff	23/06/2011
Drumliah	NH608931	ruined croft	09/07/2011
Strath Fleet	NC623056	roadside	10/07/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Inveran	NH560970	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011

Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Ach an Fhionnfhuaraidh	NC899240	grassland	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Sletdale Bridge Glen Loth	NC937127	bracken	01/07/2013
Upper Suisgill Kildonan	NC897250	streamside	05/07/2013
Balvalaich Kildonan	NC942189	streamside	05/07/2013
Torrish Burn Kildonan	NC969187	ravine birch wood	05/07/2013
Ben Armine Lodge	NC704193	hamlet	10/07/2013
Feith Bhuide	NH690905	pine plantation	11/07/2013
Achany Glen	NC573022	roadside	24/06/2014
The Carnegie Road	NH645966	grassland	25/06/2014
Royal Dornoch Quarry	NH806895	crags	29/06/2014
Meall Mor W flank	NH645968	roadside	25/06/2014
Meall Mor W flank	NH647975	roadside	25/06/2014
Braemore Grudie Burn	NC548031	inbye grassland	24/06/2014
E of Loch Fiag	NC453291	wet heath	26/06/2014
Fiag Lodge	NC454281	waste ground	26/06/2014
E of Loch Fiag	NC453287	wet heath	26/06/2014
Meall Mor W flank	NH649980	roadside	25/06/2014
Meall Mor W flank	NH652982	roadside	25/06/2014
The Carnegie Road Garvary	NH635990	wet grassland	25/06/2014
A389 Braemore Grudie	NC543026	roadside	24/06/2014

NVC: MG 5, 13; M 23, 28

Carex echinata Murray *Star Sedge*
Carex stellulata Gooden.

hs 5

Damp heaths and bogs. The spikes have fewer than 10 spreading (patent) utricles, and the spike is not longer than wide. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH89

NVC: M 4-12, 15-17, 21, 23, 25, 26, 29, 31, 32, 35, 38; H 22; U 4

Carex dioica L. *Dioecious Sedge*

hs 5

Base rich bogs and flushes in moorland. Widespread and common.

NC30 NC31 NC32 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
 NC71 NC73 NC74 NC80 NC81 NC83 NC84 NC91 NC92 ND01 NH69 NH78 NH79 NH89

Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Duchally Lodge	NC388166	riverbank	10/05/2011
Creag na h-Uidhe	NC 387347	upland heath	27/07/2010 Mark Jannink
Mound Rock	NH770980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Mor W crags	NC800380	crags	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011

NVC: M 6, 8-13, 15, 34, 37, 38

Carex canescens L. *White Sedge*

hs 5

Carex curta Gooden.

Wet acid places on heaths, in bogs and boggy woodlands, and on mountain sides. Widespread and locally frequent.

NC31 NC32 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC70 NC71 NC72 NC73 NC74 NC80
NC81 NC82 NC83 NC90 NC93 ND01 NH69 NH79

Overskibo pond	NH724903	pond-side	14/05/2011
Overskibo Curling Pond	NH727902	pond-side	14/05/2011
The Alders The Mound	NH771987	alder carr	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC850400	wet heath	15/07/2011
Ben Griam Beg E side	NC870400	wet heath	15/07/2011
Ben Griam Beg E side	NC860400	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Loch na Caillich	NC500080	wet heath	16/07/2011
Coire Mhadaidh Conival	NC307203	wet rocks	10/08/2012 Gordon Rothero
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
Cnoc an Laith-bhaid Mhoir	NC765284	wet heath	15/06/2015
S of Forsinard lochans	NC869419	wet heath	15/06/2015
Loch Achnamoine Helmsdale	NC811326	loch side	16/06/2015
Allt Lon a' Chuil	NC735448	wet heath	16/06/2015
Achrimsdale Fank Borrobol	NC794260	wet heath	15/06/2015

NVC: M 2, 4-8, 12; S 8

[*Carex hirta* L. *Hairy Sedge*]

hs 5

Damp grassland, meadows, bogs, ditches, roadsides, and heaths, but sometimes in quite dry situations; frequent. Very easy to recognise by the grey-green colour of its leaves, its pale straw-coloured female inflorescences, and its very hairy lower leaf sheaths; the utricles are large (4.5-7mm) and very hairy.

NVC: M 22; MG 4,9,10; OV 26; S 19,23

Recorded from Easternness and the Moray coast.

Carex lasiocarpa Ehrh. *Slender Sedge*

hel 5

Bogs, swamps and margins of lochs. Known at once by its long narrow leaves. Occasional.

Loch Dubh Sron nan Iarnachan NC528026 22/07/1984 J.K. Butler

NC30 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC70 NC71 NC73 NC74 NC80 NC82
NC83 NH69 NH79

Loch Craggie, E of	NC6306	1976-08	Marshall, M.
Loch a' Bhrochain	NC370030	1984	Charter, E.
Loch Gaineamhach	NC514258	1984	Charter, E.
Lochan a' Choire	NC462133	1984	Charter, E.
VC107 East Sutherland	NC378048	1984	Charter, E.
Loch Dubh Sron Iarnachan	NC528026	1984-07-22	Anthony, J.
Beinn Rosail	NC714404	1987-05-25	Butler, J.K.
Loch Farlary	NC772050	1987-07-06	Charter, E. et al.
Loch Laro	NH608994	1987-07-07	Charter, E.
Loch na Caillich	NC516082	1987-07-10	Charter, E.
VC107 East Sutherland	NC518078	1987-07-10	Charter, E.
Loch Strath Duchally	NC423268	1987-07-17	Dale, K. et al.
Suil a' Ghriama	NC411279	1987-07-17	Dale, K.
Loch Brora	NC850080	1987-07-27	Charter, E.
nan Clar & Badanloch	NC759355	1987-08-24	Charter, E.
Loch Rosail	NC715401	1987-09-01	Bell, S.L., Dalton, A.
Loch Craggie	NC625075	1987-09-02	Sharpe, N.
Loch Dola	NC606080	1987-09-02	Charter, E.
Loch Tigh na Creige	NC616093	1987-09-02	Charter, E.
Loch an Ulbhaidh	NC493227	1987-09-09	Charter, E., Sharpe, N.
W of R Tirry	NC507234	1987-09-09	Sharpe, N.
W of R Tirry	NC508239	1987-09-09	Warman, E.
W of R Tirry	NC515248	1987-09-09	Warman, E.
W of R Tirry	NC510242	1987-09-09	Warman, E.
W of R Tirry	NC507238	1987-09-09	Warman, E.
Loch Gaineamhach	NC514258	1987-09-10	Dale, K.
Loch na Capulich	NC527224	1987-09-10	Warman, E.
W of R Tirry	NC515255	1987-09-10	Dale, K.

Loch as Airde	NH700902	1987-09-16	Charter, E.
Loch Beag na Fuaralachd	NC609156	1987-09-16	Dale, K.;Warman, E.
Loch Dail na Copaig	NC578158	1987-09-16	Sharpe, N.
Loch na Fuaralachd	NC604163	1987-09-16	Dale, K.;Warman, E.
Loch Ruagaidh	NH733994	1987-09-18	Warman, E.;Sharpe, N.
E of R Fiag	NC461251	1987-09-18	Warman, E.;Sharpe, N.
N of Loch Ruagaidh	NC742070	1987-09-29	Warman, E.;Sharpe, N.
Loch Eileanach	NC483277	1988-06-21	Charter, E.;Gunn, I.
Loch na Gaimeimh	NC7012	1988-07-30	BSBI Field Meeting
Cnoc an Laoigh	NC482215	29/06/1998	Gordon Rothero
Green Loch	NC722394	01/07/1998	Gordon Rothero
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero
Beinn Rosail East	NC70404019	2003-06-28	Evans,PA. et al.
R. Brora	NC71081154	2004-07-08	BSBI Field Meeting
Palm Loch	NC7080041100	2011-06-21	Crawley, Mick
Kilbraur Wind Farm	NC7674907062	2011-06-22	Crawley, Mick
Strath Carnaig birch woods	NH7162998299	2012-05-18	Crawley, Mick
North Dalchork Forest,	NC55582100	2012-07-19	Waddell, Jeff;Gunn, Derry
Braemore Forest	NC50F	2012-07-20	Waddell, Jeff;Ventress, Gareth

NVC: M 5, 9; S 2, 4, 24

[*Carex acutiformis* Ehrh. *Lesser Pond-sedge*] hel 4

Wet woods, river-sides, marshes, water meadows, and margins of ponds and canals. Very variable, and frequently hybridising. Early flowering. It is most likely to be mistaken for *C. riparia*, but *C. acuta* and *C. vesicaria* are superficially similar. It is told from *C. riparia* by its much smaller female glumes (3-4mm compared with 6-10mm in *C. riparia*). From *C. vesicaria* it is told by its smaller utricles (3.5-5mm rather than 5-8mm) with their shorter beaks (less than 1mm, rather than 1.5-2.5mm). *C. acuta* is told at once by the fact that its utricle has no beak at all. The stigma count is not much help because *C. acutiformis* can have 2 or 3 stigmas; the 2-stigma plants may be derived from hybrids with *C. acuta* (Stace).

NVC: M 22,27; MG 4; OV 26; S 7,14,18,23; W 5,6,8

Recorded from Easter Ross, Easternness and the Moray coast.

[*Carex riparia* Curtis *Greater Pond-sedge*] hel 5
Carex acuta auct., non L.

Male spikes 2 or more, female glumes 6-10mm, much longer than the utricles. It has much fatter black female spikes than *C. acutiformis* with which it often grows (see above).

NVC: OV 26; S 3-6,25,26; W 1,5,6

Recorded from Easternness and the Moray coast.

Carex rostrata Stokes *Bottle Sedge* hel 5
Carex ampullacea Gooden., nom. illegit.

In shallow water on edges of lochs and lochans, and in marshes and bogs with peaty soil. Told from *C. vesicaria* by its smaller utricles (3.5-6.5mm not 5-8mm) which are more widely spreading (patent), and abruptly contracted into a rather short beak (1-1.5mm) with acute (not acuminate) female glumes. The female inflorescences are held upright (not pendulous), despite their long pedicels. Many stems are non-flowering in most years, which can make the plant rather inconspicuous. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH68 NH69 NH78 NH79 NH89

Carbisdale Castle	NH576958	flood meadow	12/07/2010
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Loch Thurnaig	NC399003	loch	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Cathair Thurnaig	NC390008	loch	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC850400	wet heath	15/07/2011
Ben Griam Beg E side	NC860410	wet heath	15/07/2011
Ben Griam Beg E side	NC860400	wet heath	15/07/2011
Ben Griam Beg E side	NC870400	wet heath	15/07/2011
Ben Griam Beg	NC860400	wet heath	15/07/2011
Garvault Hotel	NC791388	flush	15/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Loch Coire na Bruaiche	NC635165	loch	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Allt Garbh-airigh	NC632002	wet heath	25/06/2014
Braemore Grudie Burn	NC540030	flush	24/06/2014
Loch Dubh	NC616035	former loch	25/06/2014
un-named lochan	NC650006	loch	25/06/2014
Loch a' Ghorm-choire	NC440326	loch	26/06/2014
Loch Dubh	NC530022	wet heath	10/05/2015
An Stoc-bheinn	NC640027	stream head	25/06/2014
Allt Garbh-airigh	NH634998	wet heath	25/06/2014
The Carnegie Road	NH641972	wet heath	25/06/2014
Loch Craicail Mor	NC623022	loch	25/06/2014

Loch Cracail Beag	NC631006	loch	25/06/2014
Loch Cracail Mor	NC628016	loch	25/06/2014
Loch Buidhe inflow delta	NH652983	loch shore	25/06/2014
Loch Ascaig Borrobol	NC857252	loch side	15/06/2015
Branachaille Borrobol	NC784256	wet heath	15/06/2015
Loch Achnamoine	NC811326	loch side	16/06/2015
Riasg Hill Borrobol	NC770281	wet heath	15/06/2015
Achrimsdale Fank Borrobol	NC794260	wet heath	15/06/2015
Cnoc an Laith-bhaid Mhoir	NC765284	wet heath	15/06/2015
Loch Preas nan Sgiathanach	NC678089	loch side	13/06/2015
S of Forsinard lochans	NC869419	wet heath	15/06/2015
Cread nam Fiadh Borrobol	NC841237	wet heath	15/06/2015
Allt Lon a' Chuil	NC735448	wet heath	16/06/2015
Loch Molach	NC721422	wet heath	16/06/2015
etc.			

NVC: A 22; M 13,21,22,27; S 4,8,10,12,19,23; W 4

Carex vesicaria L. *Bladder-sedge*

hel 6

Carex inflata Hudson

Margins of lochs. Told from *C. rostrata* by its yellow-green (not dark green) leaves, larger utricles (5-8mm, not 3.5-6.5mm) which are erecto-patent (not widely spreading), and gradually contracted into a longer beak (1.5-2.5mm, not 1-1.5mm) with acuminate (not acute) female glumes. Local and rare.

NC40 NC52 NC80 NC81 NH49 NH89

Loch Migdale N shore	NH632916	loch side	10/07/2010
Linsidmore Wood	NH498998	riverbank	12/07/2010
Kyleside Walk Bonar Bridge	NH610913	tidal riverbank	12/07/2010
Linsidmore Wood	NH530990	riverbank	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011

NVC: M 27; OV 30; S 11, 27; W 1

Carex saxatilis Huds. *Russet Sedge*

hel 6

Wet places with snow-lie and mountain bogs. Local and rare.

Ben More Assynt 2700ft	15/07/1959	D.A. Ratcliffe
E-facing crags on Ben More Assynt	15/07/1977	D.A. Ratcliffe

NC31 NC32 NC63

Coire a' Mhadaidh	NC305209		12/07/1998 Gordon Rothero
Coire Mhadaidh Conival	NC307203	snow patch	10/08/2012 Gordon Rothero

NVC: M 8, 12

Carex pendula Huds. *Pendulous Sedge*

hel 6

A garden escape in damp shady places, by streams and on waste ground.

Cnoc-An-Lobht Dornoch	NH794898	suburbia	10/04/2010
Eaglefield Road Dornoch	NH796895	suburbia	10/04/2010
Wester Drumlich	NH607934	hamlet	09/07/2011
Gordon Place Pittentrail	NC727018	council houses	10/07/2011
Davoch Pittentrail	NC723016	garden	10/09/2012
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
opposite Marrel Helmsdale	ND021174	rocky stream	05/05/2013
Clynelish Moss fly tipping	NC879454	roadside	07/05/2013
Brora Station	NC906414	railway	07/05/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Sutherland Street Helmsdale	ND027154	village	17/06/2015

Carex sylvatica Huds. *Wood-sedge*

hs 5

Woodlands in the lowlands. By Loch Shin and in Strath Fleet. Local and rare.

NC40 NC51 NC60 ND01

Glencassley Castle	NC440078	woodland	06/07/1999 Gordon Rothero
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Woodburn	NH525991	marsh	12/07/2011
Ravens Rock Gorge	NC498011	woodland	12/07/2011
Skibo Castle S front	NH737890	parkland	11/07/2013

NVC: W 8,10,12,14

Carex capillaris L. *Hair Sedge*

hs 5

Base-rich flushes, mineral-rich bogs and other wet, grassy places. Local and rare. The four records from 2011 are by Pugh, Youngman, Pankhurst & McIntosh.

Ben Griam	15/07/1901	E.S. Marshall
Ben Griam	15/07/1962	M. McC. Webster

NC31 NC83

Ben Griam Mor SW crags	NC802389	crags	15/07/2011
Creag Dhubh on Ben Griam Mor	NC800390	composite	15/07/2011
Creag Dhubh on Ben Griam Mor	NC808390	crags	15/07/2011
Creag Dhubh on Ben Griam Mor	NC807391	crags	15/07/2011

NVC: CG 9, 10, 13, 14, 15; M 10

Carex flacca Schreb. *Glaucous Sedge*
Carex glauca Scop.

hs 5

Base rich grasslands, mires and heaths. The leaves are distinctly bluish, the rhizomes are extensive (not tussock forming), male spikes 2 to 3, female spike clearly stalked and often pendant or erecto-patent. Told from the other common blue-leaved sedge, *C. panicea*, by its 3-sided (not with an abruptly disappearing channel) leaf tips and fewer, more inflated utricles in each female spikelet. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC90 NC91 NC92 NC93 ND01 NH59 NH68
 NH69 NH78 NH79 NH88 NH89

NVC: CG 5-11, 13-15, 17 ; U 15, 17; M 9-11, 13, 22, 25,26, 37, 38; MG 5, 8; W 12; H 4-8

Carex panicea L. *Carnation Sedge*

hs 5

Wet meadows and other grassy places, fens, bogs and marshes. Utricles less than 5mm, smooth, truncate, beak short and not deeply notched; leaves glaucous, sheaths not inflated. The central leaf-channel disappears before it reaches the flat leaf tip (as in *Eriophorum angustifolium*) in contrast to *C. flacca* which has flat leaf tips without a disappearing groove. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH79 NH88 NH89

NVC: M 6, 8-17, 21-27, 29, 32, 35, 37, 38; H 4-7, 10, 13-18; MG 3-5, 8-10, 13; CG 9-13; U 3-5, 7, 10, 15, 17

[**Carex vaginata** Tausch *Sheathed Sedge*]

hs 5

Wet rocky places, damp slopes and flushes above 600m.

Recorded from Easter Ross and Caithness.

Carex laevigata Sm. *Smooth-stalked Sedge*
Carex helodes Link

hs 6

Damp shady places. Like *C. binervis* in having utricles with scabrid beaks, but with much broader leaves (5-12mm not 2-5mm wide), female glumes acuminate (not obtuse), fine red dots on the utricles, and ligules 7-15mm (not 1-2mm). Densely tufted, like *C. sylvatica*, but with darker green leaves and broader female spikes (6-8mm wide), on peduncles with the exposed portion shorter than the spike, and utricles with rough (not smooth) beaks; non-flowering plants can be distinguished by the much shorter ligules of *C. sylvatica* (2mm not 7-15mm). Local and uncommon.

Kildonan	15/07/1956	M. McC. Webster
Torrish	15/07/1962	M. McC. Webster

NC40 NC82 NC91 NC92 ND01 NH69 NH79

Strath Oykel	NC448016	woodland	07/07/1999	Gordon Rothero
Kildonan Burn Falls	NC911216	rocky stream	19/06/2011	
Beinn Rosail	NC704406	crags	22/06/2011	
Ravens Rock Gorge	NC498011	woodland	12/07/2011	
Coill a Chnocain	NC446014	oak woodland	19/05/2012	
Ord of Caithness	ND056173	stream	07/07/2013	

NVC: W 3, 7

Carex binervis Sm. *Green-ribbed Sedge* hs 5

Damp heaths, moors and marshes on acid soils, untrampled heathy rides through pine plantations. Utricles with scabrid beaks, leaves narrow (2-5mm wide), female glumes obtuse mucronate, and small ligules (1-2mm). Early into flower, its anthers make it very conspicuous against the still wintry background. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: W 19, 20; M 15, 19; H 4, 8, 10, 14, 18, 20, 21; CG 10, 11; U 3, 4, 5, 16, 17, 20

Carex distans L. *Distant Sedge* hs 5

Marshy fields on nutrient-rich soils near the sea. Told only with difficulty from *C. hostiana* by leaf blades and lowest bract gradually contracted to the apex, female glumes pale with narrow scarious margins. Very local and rare.

NH79

NVC: MG 11, 12

Carex extensa Gooden. *Long-bracted Sedge* hs 5



Carex extensa Carl Farmer

Muddy or sandy brackish places by the sea, salt marshes. Local and uncommon.

Dornoch		15/06/1958	John Anthony
Loch Fleet		10/07/1974	P. Adam
Dornoch Links	NH700800	15/07/1983	BSBI
Dornoch Links	NH800800	15/07/1983	BSBI

NH78 NH79 NH88

Dornoch Point	NH805877 sand dunes	14/07/2011	Scott, Youngman & Meek
Dornoch Dunes S	NH802881 sand dunes	14/07/2011	Scott, Youngman & Meek

NVC: SM 15, 18, 19, 20

Carex hostiana DC. *Tawny Sedge*
Carex hornschurchiana Hoppe

hs 6

Moors, marshes, flushes and bogs, both inland and by the sea. Told with difficulty from *C. distans* by leaf blades and lowest bract rather abruptly contracted to the apex (a narrow, parallel-sided point), and female glumes dark with broad scarious margins. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC60 NC61 NC62 NC63 NC70
 NC71 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC91 NC92 ND01 NH49 NH69 NH79 NH89

NVC: M 9, 11, 13, 24, 26, 29; H 5; CG 9; SD 14

Carex x fulva Gooden. = **C. hostiana x C. viridula**

Carex x appeliana Zahn
Carex x leutzii Kneucker

Frequent wherever *C. hostiana* meets any of the 3 subspecies of *C. viridula*. Scattered throughout.

NC40 NC41 NC43 NC60 NC71 NC73 NC81 NC83 NH59

Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Ben Griam Beg E side	NC850412	crag	15/07/2011
Ben Griam Mor W crags	NC800380	crag	15/07/2011
Garvault Hotel	NC791388	flush	15/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011

Carex lepidocarpa Tausch *Long-stalked Yellow-sedge*

hs 6

Carex viridula subsp. *brachyrrhyncha* (Celak.) B. Schmid
Carex flava L. subsp. *brachyrrhyncha* Celak.
Carex lepidocarpa Tausch subsp. *scotica* E. Davies
Carex viridula Michaux var. *scotica* (E. Davies) B. Schmid
Carex viridula Michaux var. *lepidocarpa* (Tausch) B. Schmid
Carex viridula Michaux var. *elatior* (Schldl.) Crins
Carex viridula Michx

Base rich flushes and loch sides. Told from *C. demissa* by the long beak (at least half as long as the curved body of the utricle). Occasional.

Rosehall	15/06/1960	John Anthony	
Torrish Helmsdale	15/07/1962	M. McC. Webster	
Ben More Assynt	15/07/1969	U.K. Duncan	
Strathsteven	11/08/1983	BSBI	
Tulloch	NH618932	bog	09/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Meall nan Aighean Armine	NC693307	wet heath	12/07/2013

Leathad Creagach	NC624028	wet heath	25/06/2014
E of Loch Fiag	NC453287	wet heath	26/06/2014
A389 Braemore Grudie Burn	NC543026	roadside	24/06/2014
Dalbhat on the Craggie road	NC898210	track	27/06/2014
Dalbhat on the Craggie road	NC898210	wet heath	27/06/2014
Craggie Road	NC888206	wet heath	27/06/2014
An Stoc-bheinn	NC640027	stream head	25/06/2014
Braemore Grudie Burn	NC540030	Carex flush	24/06/2014

NC30 NC31 NC32 NC40 NC41 NC50 NC51 NC52 NC60 NC61 NC70 NC73 NC74 NC80 NC83
NC91 NC92 ND01 NH69 NH79

NVC: M 9; H 7

Carex demissa Hornem. *Common Yellow-sedge*

hs 6

Carex viridula subsp. *oedocarpa* (Andersson) B. Schmid

Carex oederi auct., non Retz. var. *oedocarpa* Andersson

Carex serotina auct., non Mérat

Carex tumidicarpa Andersson

Carex oederi auct., non Retz. subsp. *demissa* (Hornem.) C. Vicioso, nom. inval.

Carex flava L. subsp. *demissa* (Hornem.) O. Bolòs, Massales and Vigo, nom. inval.

Acid loch sides, wet stony tracks and damp spots in acid grasslands. Beaks of utricles straight, less than half as long (and straight in line with) the more or less straight body of the utricle (3-4mm). Lowest female spike usually distant from others. Common and widespread.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

Coul Links	NH805946	dune slacks	11/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Strath Fleet	NC623056	roadside	10/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm N	NH750990	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Oykel Bridge E	NC390000	composite	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
N of Coire Gorm	NC360290	crags	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Sgialach Coire	NC370290	composite	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011

Ben Hee	NC420320	composite	13/07/2011
Meallan Liath Mor	NC400320	composite	13/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg E side	NC850400	wet heath	15/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Beg E side	NC850412	crag	15/07/2011
Ben Griam Beg E side	NC860400	wet heath	15/07/2011
Ben Griam Beg E side	NC870400	wet heath	15/07/2011
Ben Griam Mor W crags	NC800380	crag	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Ben Uarie rocky stream	NC934159	streamside	09/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Creag an Sgamhlainn	NC370328	disturbed ground	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Coille Sron Na Croiche	NC455013	pinewood	19/05/2012
Drochaid Badair Dhonnadh	NC408014	rocky stream	19/05/2012
R. Oykel N Bank Luberoy	NC359018	riverbank	19/05/2012
etc.			

NVC: M 9; H 7

Carex oederi Retz. *Small-fruited Yellow-sedge*

hs 6

Carex viridula subsp. *viridula*

Carex serotina Mérat

Carex pulchella (K. Lonnr.) Lindman, non S. Berggren

Carex bergrothii Palmgren

Carex serotina Mérat subsp. *pulchella* (K. Lonnr.) Ooststr.

Carex scandinavica E. Davies

Carex viridula Michaux var. *pulchella* (K. Lonnr.) B. Schmid

Loch sides, wet places in bogs, marshes and dune slacks. Told from *C. demissa* by its much smaller utricles (1.75-3mm rather than 3.5-4mm), sessile (rather than distinctly stalked) male spike and bunched (not distant) lowest female spike. Local and uncommon.

NW end of Loch Migdale NH631916 18/07/1979 M.McC. Webster det. R. David

NC60 NC80 NH69 NH78 NH79 NH89

Coul Links NH805946 dune slacks 11/07/2010

Coul Links NH804948 dune slacks 04/07/2013

NVC: M 9; H 7; SD 13, 14, 16; MC 10

Carex pallescens L. *Pale Sedge*

hs 5

Moist woods and shady places, chiefly on acid soils. Lowest leaf sheaths and lower leaf blades pubescent; lowest bract crimped at base. Widespread and locally frequent.

NC30 NC31 NC32 NC33 NC40 NC41 NC50 NC51 NC60 NC62 NC63 NC70 NC71 NC74 NC80
NC81 NC82 NC83 NC92 NH68 NH69 NH79

Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Halmadarie Burn	NC697302	rocky stream	20/06/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Allt Coire a Chruiteir	NC390340	wet heath	13/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
N of Coire Gorm	NC360290	crags	13/07/2011
Doire Dubh	NC360320	composite	13/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Glen Sletdale	NC931124	flush	01/07/2013
PROSAMO sites Sallachy	NC560656	birch wood	02/07/2013

NVC: W 9

Carex caryophylla Latourr. *Spring-sedge*

hs 4

Carex praecox Jacq., non Schreber
Carex verna Chaix

Lawns, base-rich short grassland, heaths, meadows, and railway banks. Under-recorded because of its small size, early flowering and tendency to grow in closely mown grass where flowering is discouraged by repeated defoliation. Conspicuous at anthesis, with a terminal flowering stem, leafy at base, lowest bract with a long sheath (3-5mm). Female spikes more than 4mm wide, falling short of the top of the male spikes, and the female glumes are acute with a narrow (or no) scariosus border. The leaves are green (not glaucous) and curved. Very local and rare.

NC42

NVC: MG 3, 5; CG 5-11; U 4

Carex pilulifera L. *Pill Sedge*

hs 5

Dry heaths, dry woods, moorland, heathy forest rides and acid grasslands. Lowest bract with sheath 0-2mm but green and leaf-like; female glumes reddish brown (not purple black as in *C. montana*), beak of utricule 0.3-0.5mm (not less than 0.3mm). Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH69 NH78 NH79

NVC: W 11, 15, 17, 19; M 15; H 3, 4, 8, 10, 13-21; CG 10-12; U 3-5, 7, 9, 10, 13, 14, 19, 20;
 SD 12

Carex limosa L. *Bog-sedge*

hel 5



Carex limosa Krzysztof Ziarnek

Very wet blanket bogs and valley mires in the flow country. Local and uncommon.

Oykel Bridge	09/07/1908	Shoolbred, Dr W.A.
Oykel Bridge	10/07/1908	E.S. Marshall
Cambusmore	15/07/1938	P.M. Hall
Lairg	15/07/1958	I. Hedges
Rogart	15/07/1961	M. McC. Webster

E of Loch Craggie Lairg		15/08/1976	M.J. Marshall
Cnoc an Laoigh	NC482215	29/06/1998	Gordon Rothero
Green Loch	NC722394	01/07/1998	Gordon Rothero
Beinn Sgeireach	NC440120	04/07/1999	Gordon Rothero
Beinn an Rosail Beag	NC410137	07/07/1999	Gordon Rothero

NC30 NC31 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC70 NC71 NC73 NC74
NH59 NH79

Watershed S of Forsinard	NC876409	bog pool	15/07/2011
Loch na Caillich	NC500080	bog pool	16/07/2011
An Stoc-bheinn S flank	NC645017	stream head	25/06/2014
S of Forsinard lochans	NC869419	wet heath	15/06/2015

NVC: M 1, 4, 9

[**Carex atrata** L. *Black Alpine-sedge*]

hel 6

Wet rock ledges above 720m.

Recorded from a few mountains in Wester Ross.

Carex recta Boott *Estuarine Sedge*

hel 5

One of our Red Data Book species. It forms extensive patches in wet, silty areas within estuaries. Very local in the Kyle of Sutherland. Several other sites on the southern (vc. 106) bank of the Kyle. Typically found growing with *Achillea ptarmica*, *Agrostis capillaris*, *Agrostis stolonifera*, *Alnus glutinosa*, *Aster tripolium*, *Athyrium felix-femina*, *Betula pubescens*, *Callitriche brutia* subsp. *hamulata*, *Callitriche brutia* subsp. *hamulata*, *Callitriche stagnalis*, *Caltha palustris*, *Calystegia sepia*, *Cardamine pratensis*, *Carex canescens*, *Carex echinata*, *Carex nigra*, *Carex panicea*, *Carex recta x nigra*, *Carex remota*, *Carex rostrata*, *Carex vesicaria*, *Comarum palustre*, *Crepis paludosa*, *Deschampsia cespitosa*, *Eleocharis palustris*, *Equisetum fluviatile*, *Eriophorum angustifolium*, *Filipendula ulmaria*, *Galium aparine*, *Galium boreale*, *Galium palustre*, *Geum rivale*, *Hydrocotyle vulgaris*, *Hypericum tetrapterum*, *Iris pseudacorus*, *Juncus articulatus*, *Juncus bulbosus*, *Juncus effusus*, *Mentha aquatica*, *Menyanthes trifoliata*, *Myosotis scorpioides*, *Myriophyllum alterniflorum*, *Phalaris arundinacea*, *Phragmites australis*, *Pilularia globulifera*, *Plantago lanceolata*, *Potentilla anserina*, *Ranunculus acris*, *Ranunculus flammula*, *Ranunculus repens*, *Rumex acetosa*, *Rumex obtusifolius*, *Salix phylicifolia*, *Senecio aquaticus*, *Stachys palustris*, *Stellaria graminea*, *Succisa pratensis*, *Valeriana officinalis* and *Veronica scutellata*.

NH59 NH69

Strath Oykell	NH570950	15/07/1971	A.C. Jermy
Bonar Bridge	NH596936	23/06/1984	J. Killick det. A.C. Jermy
Altass	NH503992	11/08/2004	Ballinger, B.R., Ballinger, C.B., Dean, M.
Altass	NH504992	ditto	
Altass	NH505992	ditto	
Altass	NH5045 9922	ditto	
Altass	NH5049 9924	ditto	
Inveran	NH5699 9684	ditto	

Inveran	NH5711 9674	20/06/2010	Ballinger, B.R., Ballinger, C.B., Dean, M.
Inveran	NH5721 9667	ditto	
Invershin	NH5770 9580	ditto	
Invershin	NH5719 9604	ditto	
Opposite Carbisdale Castle	NH576958	swamp	12/07/2010 M.J. Crawley
Kyleside Walk Bonar Bridge	NH610913	swamp	12/07/2010 M.J. Crawley
Woodburn	NH525991	marsh	12/07/2011 Marriott, Pugh & Hawker
Altass Swamp	NH504992	swamp	12/07/2011 BSBI group

Ballinger, B.R. *et al.* (below), means Ballinger, B.R., Dean, M. and Wortham, P.

Altass, flood-plain fen	NH50469922	28/06/2015	Ballinger, B.R., Dean, M.
Altass, flood-plain fen	NH50499924	28/06/2015	Ballinger, B.R., Dean, M.
Woodburn, flood-plain fen	NH52519912	28/06/2015	Ballinger, B.R., Dean, M.
Inveran, river-edge	NH57009684	30/06/2015	Ballinger, B.R. <i>et al.</i>
Inveran, river-edge flats	NH57109677	30/06/2015	Ballinger, B.R. <i>et al.</i>
Invershin, river-edge	NH57189607	30/06/2015	Ballinger, B.R. <i>et al.</i>
Inveran, river-edge flats	NH57219669	30/06/2015	Ballinger, B.R. <i>et al.</i>
Invershin, river-edge	NH57709580	30/06/2015	Ballinger, B.R. <i>et al.</i>
Invershin, estuarine mud flats	NH57759549	30/10/2015	Ballinger, B.R.

NVC: not studied

[*Carex x grantii* A. Benn. = *C. recta* x *C. aquatilis*]

Recorded recently from the banks of the Wick River in Caithness, but there are some older records from the Kyle of Sutherland. Very local and rare.

[*Carex x spiculosa* Fr. = *C. recta* x *C. nigra*]

With the parents, at one site in the Kyle of Sutherland in vc. 106. Very local and rare.

Invershin, Kyle of Sutherland NH577953 10/7/2002 Foley, M.J.Y. Porter, M.S.

Carex aquatilis Wahlenb. *Water Sedge*

hel 5

Swampy areas by lochans and by streams. Local and rare.

NC61 NC80 NH59 NH69

Loch Brora	NC850080	27/7/1987	Charter, E. Dale, K. Warman, L. Sharpe
Altass Swamp	NH504992	swamp	12/07/2011
Linsidmore Wood	NH530990	marsh	12/07/2011
Woodburn	NH525991	marsh	12/07/2011

NVC: M 7; S 11, 27

[*Carex acuta* L. *Slender Tufted-sedge*]

hel 5

Carex gracilis Curtis

Sides of lakes, rivers, canals, brooks and ponds, marshy meadows and gravel pits. Much less frequent than *C. acutiformis*. Told at once from the other big sedges like *C. acutiformis* and *C. riparia* by its slender habit and the almost beakless utricle. The plant looks like a tall, dark-blue-green leaved version of *Carex nigra*. The utricles may be minutely notched (<0.3mm), female glumes rounded, utricles with distinct veins. The leaves are 3-10mm wide and the lowest bract exceeds the inflorescence, male spikes usually 2 to 4. Told from *C. nigra* by the lowest bract which overtops the inflorescence (shorter in *C. nigra*) and more numerous male spikes (2-4 rather than 1).

NVC: S 4-6,25,26

Recorded from Easter Ross.

Carex nigra (L.) Reichard *Common Sedge* hs 5

Carex acuta L. var. *nigra* L.

Carex goodenowii Gay, nom. illegit.

Carex vulgaris Fries, nom. illegit.

Wet grassy places, marshes, wet meadows, heaths, fens, and bogs; absent from base-rich soils. Told from *C. acuta* by smaller leaves (1-3mm wide), shorter lowest bract (usually not overtopping) and male spike usually single. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: W 1-4, 7; M 4-13, 15, 17, 19, 22-27, 29, 31, 32, 34, 35, 37, 38; H 7; MG 8, 9, 12; CG 10; U 2, 4-7, 16, 17; A 22; S 1, 8, 9, 11, 19, 21,27; SM 19, 20; SD 14-17; MC 9, 10

[Carex elata All. *Tufted-sedge*] hs 5

Carex stricta Gooden., non Lam.

Carex hudsonii A. Bennett ex F. Hanb.

In marshy places by rivers, in peaty places by loch sides; always very local and rare. Told from *C. acuta* by habit (usually densely tufted into tussocks), and leaf sheaths breaking into ladder-like fibres on the back. It can be confused with tussocky forms of *Carex nigra*. The garden plant is usually the yellow-leaved *C. elata* 'Aurea'.

Recorded from Easter Ross.

Carex bigelowii Torr. ex Schwein. *Stiff Sedge* hs 6

Mountain ridges, snow-lie patches on the mountains, stony ground, heaths and flushed gullies in the uplands. Locally frequent.

NC31 NC32 NC33 NC40 NC43 NC52 NC62 NC63 NC72 NC83 NC84 NC91 NC93 NH49 NH68

W summit ridge Ben Gram Mor	NC800390	gravel	21/06/2011
Ben Griam Mor summit	NC803389	dry heath	21/06/2011
Coire nam Mang	NC410320	wet heath	13/07/2011
Ben Hee	NC420320	mountain ridge	13/07/2011

Meallan Liath Mor	NC400320	mountain ridge	13/07/2011
Ben Griam Beg	NC830410	summit	15/07/2011
Ben Griam Beg	NC820410	summit	15/07/2011
Ben Griam Beg E side	NC830400	mountain ridge	15/07/2011
Ben Griam Mor SW crags	NC800380	mountain ridge	15/07/2011
Creag Dhubh on Ben Griam Mor	NC800390	mountain ridge	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Beinn Dhorain ridge	NC925156	summit heath	09/09/2012
Ben Uarie summit heath	NC928164	summit heath	09/09/2012
Carn Garbh Glen Sletdale	NC899139	summit heath	01/07/2013
Meall a'Phiobaire Glen Sletdale	NC909125	dry heath	01/07/2013
The Hind's Corrie Glen Sletdale	NC914117	dry heath	01/07/2013
Creag a'Bhodaich Glen Sletdale	NC914141	summit heath	01/07/2013
Meall an Fheur Loch summit	NC359310	summit grass	08/07/2013
Ben Armine	NC694273	summit heath	12/07/2013
Creag Mhor Ben Armine	NC698240	summit heath	12/07/2013
The Craggan	NC904168	rocky heather	20/06/2015
The Craggan	NC900165	summit heath	20/06/2015
Beinn an Eoin summit	NC388082	summit heath	28/06/2014
Beinn an Eoin summit	NC392083	summit heath	28/06/2014
Ben Hee NE slope	NC420330	upland	29/05/2014
Beinn an Eoin E summit	NC400085	summit heath	28/06/2014
SW of Cnoc nam Bo Riabhach	NC904395	summit heath	15/06/2015
Beinn Mhealaich Glen Loth	NC961149	summit heath	18/06/2015
Rimsdale Hill summit	NC754400	isolated rocks	16/06/2015
SE of Meall a' Bhealaich	NC898400	wet heath	15/06/2015
Meall Eachainn	NC618004	summit heath	12/06/2015
Beinn a' Mhadaidh trig point	NC768414	summit heath	18/06/2015
Cnoc Fodha Achatomlinie	NC665095	summit heath	13/06/2015
Cnoc Riabhach	NC920377	summit heath	15/06/2015
Beinn a' Mhadaidh E summit	NC773415	summit heath	18/06/2015

NVC: W 20; M 7, 8, 12, 19, 20, 31, 32; H 13, 14, 16-22; CG 11, 12; U 5-14, 16-18

Carex pauciflora Lightf. *Few-flowered Sedge*

hs 6



Acid blanket bog and valley mire. Told from *C. pulicaris* by its larger utricles (5-7.5mm not 4-6mm) and 3 stigmas (not 2) and very distinctive golden colour (see above). Locally frequent in this habitat.

S of Forsinard		15/07/1900	E.S. Marshall
Oykell Bridge		15/07/1908	E.S. Marshall
N of Loch Shin		15/07/1958	I. Hedges
W of Loch Shin		15/07/1958	I. Hedges
Creag na h'Uidhe		15/07/1973	A.G. Kenneth
Dalnessie	NC607141	15/06/1975	J.E. Kirby
Beinn an Rosail Beag	NC495046	07/07/1999	Gordon Rothero

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC61 NC62 NC70 NC71
NC73 NC74 NC82 NC83 NC84 NC92 NH69

Steall a'Choire	NC370280	bog	13/07/2011
Spinningdale Bog SSSI	NH669905	bog	14/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
E of Sallachy	NC520080	bog	16/07/2011
Loch na Caillich	NC500080	bog	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Dall na Ceardaich	NC620160	bog	16/07/2011
The Craggan	NC904168	rocky heather	20/06/2015
The Craggan	NC900165	summit heath	20/06/2015
Beinn an Eoin summit	NC388082	summit heath	28/06/2014
Beinn an Eoin summit	NC392083	summit heath	28/06/2014
Ben Hee NE slope	NC420330	upland	29/05/2014
Beinn an Eoin E summit	NC400085	summit heath	28/06/2014
Cnoc nam Bo Riabhach	NC904395	summit heath	15/06/2015

Beinn Mhealaich Glen Loth NC961149 summit heath 18/06/2015

NVC: not studied

Carex rupestris Bellardi ex All. *Rock Sedge*

hs 6



Carex rupestris Franco Fenaroli

Rock ledges and stony ground on base-rich rocks on the highest mountains. Told from *C. pulicaris* by its curly or curved leaves and its erect (not reflexed) utricles. Ben More Assynt. Very local and rare.

NC31

Bealaich Traligill NC303190 11/07/98 Anon.

Carex pulicaris L. *Flea Sedge*

hs 5

Bogs, marshy places, and wet heaths. The individual fruits are supposed to look like fleas, hence the name. Spike one, terminal. Stigmas 2, utricles 4-6mm, strongly reflexed, not ribbed. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: M 6, 8, 10-13, 15, 24, 26, 32, 37, 38; H 5, 6, 7, 10; CG 8-14; U 5, 15, 17

POACEAE

Bamboos

There is a useful key to the species of bamboo that are found as garden relics in Britain by D.T. Holyoak on p. 107 of *Alien Grasses of the British Isles* (Ryves *et al.*, 1996). The important thing is to make sure that you have mature stems, because young stems are often unidentifiable. Also remember that there are 21 naturalized species, so don't jump to conclusions. There is an excellent collection of bamboos, all clearly (and correctly) labelled in the Royal Horticultural Society's garden at Wisley [51/062583] at the bottom of the rock garden. The aphids found on bamboos in Britain are typically *Takecallis* spp.

[Pleioblastus pygmaeus (Miq.) Nakai *Dwarf Bamboo*] ● hs 6

Bambusa pygmaea Miq.

Arundinaria pygmaea (Miq.) Asch. & Graebner

Arundinaria disticha (Mitford) Pfitzer

Pleioblastus pygmaeus (Miq.) Nakai var. *distichus* (Mitf.) Nakai

This is the tiny bamboo (30cm tall) beloved of architects. Persistent in abandoned gardens, but no records of naturalised plants. Stems up to 75cm high and leaves up to 7cm x 1.5cm.

[Pleioblastus chino (Franch. & Sav.) Makino *Maximowicz's Bamboo*] ● hs 6

Bambusa chino Franchet and P. A. L. Savat.

No records, but worth looking out for.

[Pleioblastus auricomus (Mitford) D.C.McClint. ● hs 6

Arundinaria viridistriata (Siebold ex Andre) Makino

Over-recorded for *Sasaella ramosa*. Told from it by leaves striped yellow and dark green, soft with downy hairs on both surfaces.

[Pleioblastus simonii (Carrière) Nakai *Simon's Bamboo*] ● hs 6

Bambusa simonii Carrière

Arundinaria simonii (Carrière) Riv. & M. Riv.

Persistent in neglected gardens. Tall (> 3m) with more than 3 branches per node.

[Pleioblastus humilis (Mitford) Nakai] ● hs 6

Told from *P. pygmaeus* by its taller stems (2m tall and 10cm diameter), and larger leaves (up to 20cm x 2.5cm).

Sasa palmata (Burb.) E.G. Camus *Broad-leaved Bamboo* ● hs 6

Bambusa palmata Burb.

Arundinaria palmata (Burb.) Bean

Sometimes forming vast colonies in damp woodland on sandy soils. This is the only really invasive bamboo, forming thickets in woodland. Stems up to 3m tall, 10mm in diameter, leaves up to 9cm wide, with green (not purple) false petioles. Only one branch per node.

Gordonbush Lodge

NC844096

parkland

10/09/2012

[Sasa veitchii (Carrière) Rehder *Veitch's Bamboo*] ● hs 6

Bambusa veitchii Carrière

Told from *S. palmata* by lower stature (to 1.5m), thinner stems (7mm dia.), margins of the leaf often withered, whitish all around the leaf, and false petioles purplish.

[*Sasaella ramosa* (Makino) Makino *Hairy Bamboo*] ● hs 6
Sasa ramosa Makino
Arundinaria vagans Gamble

This species is refreshingly easy to identify; just run your finger along the underside of the leaf and feel the soft, downy, long hairs. It is a short species (usually less than 1m tall) that forms extensive monocultures in woodland and on roadsides. The leaves are not striped green and yellow (as in *Pleioblastus auricomus*), but often go straw-coloured on their edges in winter. Only one branch per node.

[*Pseudosasa japonica* (Siebold and Zucc. ex Steud.) Makino ex Nakai *Arrow Bamboo*] ● hs 6
Arundinaria japonica Siebold and Zucc. ex Steudel

Plantations and parks, local but established. Only one branch per node. Very tall (up to 5m) with relatively broad leaves (2-4cm rather than 0.3-2.5cm), 5-9 veins on either side of the mid-rib and leaves glaucous beneath. Like a taller version of *Sasa palmata* with narrower leaves, but much less common than it.

Dunrobin Castle NC850007 parkland 11/04/2010

[*Semiarundinaria fastuosa* (Lat.-Marl. ex Mitford) Makino ex Nakai *Narihira Bamboo*] ● hs 6
Bambusa fastuosa Latour-Marl. ex Mitf.

A persistent garden relic. Nodes with 3-5 branches and stems flattened only at the upper internodes.

[*Phyllostachys aurea* (Carrière) Rivière and C. Rivière] ● hs 6

This is golden-stemmed ornamental

[*Phyllostachys nigra* (Carrière) Rivière and C. Rivière] ● hs 6

This is black-stemmed ornamental

[*Phyllostachys bambusoides* Siebold and Zucc.]

[*Yushania anceps* (Mitford) W.C. Lin *Indian Fountain-bamboo*] ● hs 6
Arundinaria anceps Mitf.
Arundinaria jaunsarensis Gamble
Sinarundinaria anceps (Mitf.) C.S. Chao and Renvoize
Chimonobambusa jaunsarensis (Gamble) Bahadur and H.B. Naithani

This is a very tall bamboo with tiny leaves. Rhizomes long, so stems well-spaced (not clumped), and inflorescence not enveloped partially by long spathaceous bracts.

[*Fargesia murielae* (Gamble) T.P. Yi *Umbrella Bamboo*] ● hs 6
Arundinaria murielae Gamble
Sinarundinaria murielae (Gamble) Nakai

Thamnocladus murielae (Gamble) Domoly

Persistent in neglected parks and gardens. Densely tufted stems to 3m tall, nodes with 3 or more branches, leaves 6-10cm long.

Grasses

Nardus stricta L. *Mat-grass* hs 6

Often dominant in short turf on heaths and mountains on acid sandy soils. Unpalatable to most herbivorous animals, the grass tends to increase in cover under light, selective grazing. It is highly intolerant of heavy grazing, however, if hunger forces the animals to eat it. Widespread, common and locally dominant. It forms a very distinctive dominant community on some of the western hill tops.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH79 NH89

NVC: W 18, 20; M 6-12, 15-17, 19, 21, 25, 29, 31, 32, 35, 38; H 4, 7, 8, 10, 12-15, 17-22; CG 10-12, 14; U 2-21; MC 10; OV 27

Stipa gigantea Link *Golden Oats* • hs 6

A popular garden plant, occasional as an outcast. Not self-seeding with us.

Rogart Station	NC724019	railway	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Davoch Pittentrail	NC723016	garden	10/09/2012
Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015

Milium effusum L. *Wood Millet* hp 6

Woods. An ancient woodland indicator species, but also a garden plant. Very local and rare. At Skibo Castle it grows with other introduced woodland plants like *Poa chaixii* and *Luzula luzuloides*, so probably planted here.

Big Burn Golspie		15/07/1897	E.S. Marshall
Big Burn Golspie		07/09/1978	M.J. Marshall

NC80

Carnegie Wodland	NH732892	parkland	09/05/2011
Skibo Castle N aspect	NH736891	parkland	09/05/2011

The cultivar *Milium effusum* 'Aureum' is found near buildings as a garden outcast:

Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Sleastery	NH643963	croft	09/07/2013
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015

NVC: W 8,10,12,14

Schedonorus, Lolium, Festuca and Vulpia *Fescues and allies*

If you want to identify *Festuca* species you need to equip yourself with one essential piece of understanding. You have got to know the difference between extra-vaginal tillering and intra-vaginal tillering. When I learned about grasses, I was taught the wrong thing, and I had to unlearn it. I was told that *F. rubra* was mat-forming (*rhizomatous*) and *F. ovina* was tussock-forming (*caespitose*). Unfortunately, there is rather more to it than that. For example, there are tussock-forming subspecies of *F. rubra* like *F. rubra* subsp. *commutata*. The correct feature that distinguishes the aggregate of 8 species in the *F. ovina* group from the others is that they produce their branches (tillers) *inside* the older leaf sheaths (hence, intra-vaginal). The others, including *F. rubra*, have tillers that break out through the base of the older leaf sheaths, right at the bottom of the stem (hence extra-vaginal). As a consequence of this, the young tillers of *F. ovina* burst out of the top of the sheaths of the older tillers, so these older sheaths are not fused at the apex and have overlapping (not fused) margins lower down. The sheath of *F. rubra* is an unbroken cylinder from top to bottom. To tell the subspecies apart you need to cut transverse sections of the leaves and observe them under a high-power microscope (not recommended for the faint-hearted).

Schedonorus pratensis (Huds.) P. Beauv. *Meadow Fescue* hs 6
Festuca pratensis Huds.
Festuca elatior auct., non L.

Water meadows, damp pastures, sides of rivers, marshes, cultivated fields, damp hedge-rows. Hard to tell from small *F. arundinacea* in leaf (both have clasping auricles), but in flower the lowest panicle node has 2 unequal branches and the shorter of the branches bears 1 or 2 spikelets (in contrast, *F. arundinacea* has 2 more equal branches, the shorter of which has 3 to many spikelets). Local and rare.

NC31 NC73 NC90 NC91 ND01 NH79

Brora Harbour	NC909037	waste ground	12/05/2011
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NVC: MG 1,4-7,9,10,13

Schedonorus arundinaceus (Schreb.) Dumort. *Tall Fescue* hs 6
Festuca arundinacea Schreb.
Festuca elatior L.

Wet pastures, ancient meadows, sides of rivers, marshes, cultivated fields, damp hedgerows, wet ditches, roadsides and waste places near the coast. For identification, see *F. pratensis*, above. Local and rare.

NH59 NH68 NH69 NH79

Maikle Kyle of Sutherland	NH595936	tidal riverbank	12/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Royal Dornoch Golf Course	NH806907	<i>Juniper</i> dunes	14/05/2011
Burnside	NH609926	lane	09/07/2011

Dornoch Links W	NH780880	composite	14/07/2011
Royal Dornoch quarry	NH806895	quarry	20/05/2012
Ospisdale House	NH713897	parkland	11/07/2013
Embo Dunes	NH815933	dune slacks	11/06/2015

NVC: CG 2,3; M 22; MG 4,5,9; OV 23,26; S 26

[**Schedonorus x fleischeri** Rohlena = **S. arundinaceus x F. giganteus**]
Festuca x gigas O. Holmb.

Recorded from Easternness and the Moray coast.

Schedonorus giganteus (L.) Holub *Giant Fescue* hs 6
Festuca gigantea (L.) Vill.
Bromus giganteus L.

Woods, shady hedge-banks, thickets and plantations. Easy to identify from the glossy pale green leaves, clasping auricles, and 'black knees' (dark violet-purple nodes) on the flowering culm. *Bromopsis ramosa* also has a drooping panicle, but has hairy (not glabrous) leaves. Very local and rare.

Rogart Burn near Station NC725020 M.J. Marshall det. C.E. Hubbard

NC70 NH79

Loth Burn waterfalls NC945107 woodland 08/05/2011

NVC: W 8,14

[**Lolium temulentum** L. *Darnel*] o th 5

An occasional casual on rubbish tips, formerly in cornfields and waste places; very rare.

Recorded from Easternness and the Moray coast

Lolium perenne L. *Perennial Rye-grass* hs 5

Pastures, roadsides, sports fields and cultivated ground; generally distributed. Abundant in "improved" sown grasslands. It is resistant to grazing and trampling and it is therefore especially common in pastures and lawns. It is not particularly competitive with less palatable native grasses in pasture, so it has to be periodically re-sown to maintain high levels of abundance. Along with *Cynosurus cristatus*, it declines in hay meadows if autumn grazing is replaced by a second cut (i.e. it is more grazing tolerant than cutting tolerant), because they are out-competed by taller grasses like *Arrhenatherum*, *Dactylis* and *Alopecurus*. Known at once by its dark green leaves which are metallic-glossy with a pronounced mid-rib beneath, and by its clasping auricles. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC60 NC62 NC63 NC70 NC71 NC73
NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88
NH89

NVC: CG 2-4; MG 1,4-7,9,10; OV 4,9,10,12,13,15,16,18-24,26,28,29,33; S 23; W 24

[Lolium x boucheanum Kunth = **L. perenne x L. multiflorum**]
Lolium x hybridum Hausskn.

Occasional in sown leys.

Recorded from the Moray coast

Lolium multiflorum Lam. *Italian Rye-grass* ● th 5
Lolium perenne L. subsp. multiflorum (Lam.) Husnot

Sown grassland, locally abundant; occasional in arable fields and waste places. Frequent in the lowlands.

NC50 NC70 NC73 NC80 NC82 NC84 NC90 NC91 NC92 ND01 NH68 NH69 NH78 NH79 NH89

Ospisdale NH712897 hamlet 11/07/2013

NVC: MG 7; OV 4,12,22

[Lolium multiflorum x L. temulentum]

Recorded from Easternness.

Festuca L. Generally under-recorded in vc. 107.

Festuca glauca Lam. *Various-leaved Fescue* ● hs 6

A popular plant used in modern gravel gardens. Occasionally self sown on pavements close to gardens.

Biblical Gardens Golspie	NC837001	gravel garden	07/09/2012
Biblical Gardens Golspie	NC837001	gravel garden	07/07/2013
Biblical Gardens Golspie	NC837001	gravel garden	13/06/2015

[Festuca altissima All. *Wood Fescue*] hs 6

Moist stony slopes and ravines in woods and copses.

Recorded from Caithness, Easter Ross, Easternness and the Moray coast.

[Festuca heterophylla Lam. *Various-leaved Fescue*] ● hs 6

Introduced in plantations on dry soils in shade; rare. Easy to identify by the contrast between the hair-like (< 0.6mm) basal leaves and the broad (2-4mm), flat leaves on the flowering stems.

Recorded from Easter Ross, Easternness and the Moray coast

Festuca arenaria Osbeck *Rush-leaved Fescue* hs 6

Mobile sand dunes and sandy shingle by the sea.

NH78

Dornoch Dunes	NH806876	sand dunes	19/06/2011
Dornoch Airfield	NH805883	dune grassland	19/06/2011
Golspie Links	NH822983	sand dunes	23/06/2011
Littleferry	NH808957	sand dunes	23/06/2011
Loch Fleet	NH780960	salt marsh	23/06/2011
Coul Links	NH801949	sand dunes	23/06/2011
Coul Links	NH810951	sand dunes	23/06/2011
Coul Links	NH810952	sand dunes	23/06/2011
Embo sand dunes	NH815940	sand dunes	23/06/2011
Embo sand dunes	NH816938	sand dunes	23/06/2011
Crackaig Links	NC958097	sand dunes	23/06/2011
Brora Golf Course	NC912041	sand dunes	23/06/2011
etc.			

NVC: not recorded.

[*Festuca arenaria* subsp. **oraria** (Dumort.) Dengler]Coasts, often with subsp. *arenaria* but then in a zone nearer to the sea.

Recorded from Easter Ross.

Festuca rubra L. *Red Fescue*

Widespread and common in grassy places. Highly palatable to sheep, deer and rabbits, and declining under grazing. Quickly increases to dominance if herbivores are fenced out.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89NVC: CG 5-14; H 2-12; M 8, 10-13,16,22,24,27, 28, 32, 33, 37, 38; MG 1-13; U 1-5, 13-17 OV 23,
27, 41, 42; S 4, 7, 19; W 16, 22-25; SD 1-19; MC 1-12

The subspecies have not been worked out in vc. 107.

Festuca rubra subsp. **rubra** *Red Fescue* hs 5

Dry pastures, lawns, roadsides, dry woods and heaths, wall-tops, etc.; locally common and widely distributed. Grassland; abundant and locally dominant. Capable of forming a sward in all kinds of grassy places, common. Rhizomatous and mat-forming.

Festuca rubra subsp. **juncea** (Hack.) K. Richt. ch 5

Seaside cliffs and inland on grassy and rocky places. Known by its small lemmas and short rhizomes.

Festuca rubra subsp. **litoralis** (G. Mey.) Auquier. ch 5

Saltmarsh and other muddy or sandy saline areas. Known by its short stems, large lemmas and short, narrow leaves.

Dornoch Stream NH806888 salt marsh 20/05/2012

Festuca rubra subsp. **commutata** Gaudin *Chewing's Fescue* ch 5

Festuca nigrescens Lam.

Festuca rubra L. subsp. *caespitosa* Hackel

Festuca rubra L. var. *fallax* sensu Tutin, non (Thuill.) Hackel

In tufts in rough ground and dry grassy places, sown commonly in grass seed mixtures on roadsides. Not rhizomatous, and hence sometimes confused with *F. ovina* agg. (e.g. records of "*F. longifolia*"), but like all *F. rubra*, the tillers are extra-vaginal, despite the tussock-like growth form .

[**Festuca rubra** subsp. **arctica** (Hack.) Govor.] ch 5

Festuca richardsonii Hook.

Wet mountain slopes and gullies.

Recorded from West Sutherland.

Festuca rubra subsp. **megastachys** Gaudin • hs 5

Festuca heteromalla Pourret

Festuca fallax Thuill.

Festuca diffusa Dumort.

Festuca rubra L. var. *fallax* (Thuill.) Hackel

Festuca rubra L. subsp. *fallax* (Thuill.) Nyman

Festuca rubra L. subsp. *multiflora* Piper

An enormous grass, often more than 1m tall, with flat leaves; planted in waysides and escaped on waste ground. Often present as single, isolated tussocks.

Spinningdale NH675897 waste ground 18/06/2011

Dornoch Dunes N NH806906 sand dunes 14/07/2011

Boundary Track NC885402 forest road 15/07/2011

Festuca ovina L. *Sheep's-fescue* hs 5

Dry pastures, heaths, commons, sown road verges, waste places and wall-tops. Spikelets more than 5.3mm, lemmas more than 3.3mm, awns 0-1.6mm, leaves often pubescent at the base. Critical taxonomy (see below) based on microscopic investigation of morphology of transverse leaf sections. Soil type is useful in confirming identification, but can not be used on its own. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: CG 2-5; H 2; MG 1,5,6; OV 10,27,39; U 1,2,20; W 10,16

The subspecies have not been worked out in vc. 107.

Festuca ovina subsp. **ovina**

hs 5

Dry grassy places on acid soils. Probably under-recorded.

NC42 NC73

[Festuca ovina subsp. **hirtula** (Hack. ex Travis) M.J. Wilk.]

hs 5

Festuca ovina L. subvar. *hirtula* Hackel ex Travis
Festuca tenuifolia Sibth. var. *hirtula* (Hackel ex Travis) Howarth
Festuca ophioliticola Kerguelen subsp. *hirtula* (Hackel ex Travis) Auq.
Festuca filiformis Pourret subsp. *hirtula* (Hackel ex Travis) Kerguelen
Festuca hirtula (Hackel ex Travis) Kerguelen

Common in grassy places on well drained *acid* soils. The extent of the synonymy shows how hard it is to identify these plants. Extreme forms are easily told from subsp. *ophioliticola* on spikelet morphology (it is subsp. *hirtula* if the spikelet is less than 5.5mm and the lemmas are less than 3.6mm.) but there is great overlap in spikelet and lemma size.

Recorded from Easternness and the Moray coast

Festuca vivipara *Viviparous Sheep's-fescue*

hs 5

Grassy places in the uplands. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC71 NC72 NC73 NC74 NC81 NC83 NC84 NC91 NC92 NC93 NH79

Halmadarie	NC696319	wet heath	20/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
W Loch Trudersceg	NC715310	stream	20/06/2011
An Chrom-allt	NC718310	roadstone quarry	20/06/2011
Gernsary croft	NC730323	dry stone wall	20/06/2011
Loch Badanloch car park	NC788329	loch side	20/06/2011
W summit ridge of Ben Gram Mor	NC800390	gravel	21/06/2011
Ben Griam Mor W-facing rocks	NC801389	crag	21/06/2011
Ben Griam Mor N-facing rocks	NC802389	crag	21/06/2011
Ben Griam Mor N-facing rocks	NC803389	crag	21/06/2011
Ben Griam Mor summit dry heath	NC803389	dry heath	21/06/2011
Ben Griam Mor NW-facing slope	NC797395	crag	21/06/2011
Garbh-allt	NC784403	stream	21/06/2011
Biod Eag	NC780402	crag	21/06/2011
Garbh-allt Garvault	NC781389	stream	21/06/2011
Beinn Rosail summit	NC701405	dry heath	22/06/2011
Beinn Dhorain upper slope	NC932154	heather	09/09/2012
Ben Uarie upper slope	NC930163	heather	09/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Doire Dubh	NC368327	dripping cliff	08/09/2012
Creag an Sgamhlainn	NC370328	disturbed ground	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012

pathside by Allt Coir a' Chruiteir	NC400340	upland	29/05/2014
pathside by Allt Coir a' Chruiteir	NC400330	upland	29/05/2014
Meall a'Ghruididh summit	NC537041	summit heath	24/06/2014
Allt an Tireidh	NC443314	rocky stream	26/06/2014
Fiag Road	NC463230	roadside	26/06/2014
Cnoc Mor Glen Cassley	NC407087	rocky slope	28/06/2014
Cnoc na Cloich-bhuaile	NC523043	new roads	24/06/2014
E of Loch Fiag	NC453287	wet heath	26/06/2014
Cnoc na Cloich-bhuaile	NC523042	wet heath	24/06/2014
NW Grudie Burn	NC505066	wet heath	24/06/2014
between Kinbrace and Syre	NC740398	roadside	26/08/2014
Ben Hee E flank	NC438335	crags	26/06/2014
Grudie Burn	NC552034	stream bank	24/06/2014
Fiag Road	NC456270	roadside	26/06/2014
Beinn an Eoin summit	NC392083	summit heath	28/06/2014
Cnoc Riabhach	NC533071	wet heath	24/06/2014
Fiag Road	NC457256	roadside	26/06/2014
S of Loch na Caillich	NC515072	wet heath	24/06/2014
Cnoc a Choire	NC502048	wet heath	24/06/2014
Beinn an Eoin summit	NC389082	cairn	28/06/2014
Fiag Road	NC465210	roadside	26/06/2014
Beinn an Eoin summit	NC388082	summit heath	28/06/2014
Biod Eag Black Slope	NC779409	steep heather	18/06/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Crask Inn	NC523246	hamlet	13/05/2015
Beinn Mhealaich Glen Loth	NC956152	steep heather	18/06/2015
Beinn Mhealaich Glen Loth	NC949152	heather	18/06/2015

NVC: M 7, 8, 11, 12, 19, 31; H 10, 12, 18; CG 12-14; U 8-17

Festuca filiformis Pourr. *Fine-leaved Sheep's-fescue*

hs 5

Festuca capillata Lam., nom. illegit.

Festuca tenuifolia Sibth.

Festuca ovina L. subsp. *tenuifolia* (Sibth.) Dumort.

Heathy woodland rides, dry heaths, wall tops and open grassland; frequent and locally common on acid sandy soils. Spikelets less than 5.6mm, lemmas less than 3.6mm, awns 0-0.6mm. Sometimes grows side by side with *Festuca brevipila*. Widespread and locally frequent.

NC30 NC31 NC32 NC40 NC41 NC60 NC61 NC62 NC70 NC71 NC72 NC73 NC80 NC81 NC82
NC93 NH69 NH79 NH89

Dalnaclave ruined croft	NC388164	stonework	10/05/2011
Loch an Ruathair	NC871357	loch side	11/05/2011
Rimsdale Forest	NC747385	sitka plantaiton	20/06/2011
Halmadarie	NC697318	dry heath	20/06/2011
An Chrom-allt	NC718310	roadstone quarry	20/06/2011
Meall an t-Socaich	NC773332	gravel pit	20/06/2011
Loch Badanloch car park	NC788329	loch side	20/06/2011
Loch Badanloch outflow	NC789331	loch side	20/06/2011
Ben Griam Mor W-facing	NC801389	crags	21/06/2011

Cnoc na h-lolaic	NC692348	forest	21/06/2011
Beinn Rosail crags	NC704406	crags	22/06/2011
Preas nan Sgiathanach	NC684097	wet heath	22/06/2011
Achnahuie	NC709080	wet heath	22/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Dornoch Firth Road Bridge	NH747863	embankment	30/06/2013
Carn Garbh Glen Sletdale	NC906142	crags	01/07/2013
Carn Garbh Glen Sletdale	NC906134	crags	01/07/2013
Creag a'Bhodaich Sletdale	NC914136	crags	01/07/2013
Glen Sletdale	NC915161	crags	01/07/2013
Arscaig Birch Wood	NC505143	birch wood	02/07/2013
Loch Shin	NC505143	rocky shore	02/07/2013
Arscaig Croft	NC509140	ruins	02/07/2013
The Airde Loch Shin	NC526131	birch wood	02/07/2013
Loch Shin	NC529118	rocky shore	02/07/2013
Sron Lom Glen Cassley	NC358208	crags	03/07/2013
R Evelix at Cuthill Bridge	NH748878	riverbank	04/07/2013
Embo Muir	NH802936	dry heath	04/07/2013
Coul Links	NH805951	heather dunes	04/07/2013
Upper Suisgill Kildonan	NC897250	streamside	05/07/2013
Allt Horn Dunrobin Glen	NC801491	conifer plantation	06/07/2013
Beinn Domhnaill	NH677966	dry heath	09/07/2013
Creag Ach a'Bhathaich	NH706946	dry heath	09/07/2013
Creagan Dubh	NH727945	crags	09/07/2013
Meall Loch Laoigh	NH735956	dry heath	09/07/2013
Creagan na Moine	NH742945	dry heath	09/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Coirfrois Burn Pollie Hill	NC751152	stream	10/07/2013
Cnoc Dubh Beag	NH674925	dry heath	11/07/2013
Feith Bhuide	NH690905	pine plantation	11/07/2013
Ben Tarvie	NH750963	crags	11/07/2013
etc.			

Festuca brevipila R. Tracey *Hard Fescue*

• hs 4

Festuca duriuscula auct.

Festuca trachyphylla (Hackel) Kraj., non Hackel ex Druce

Festuca longifolia sensu C.E. Hubb. et auct., non Thuill.

Festuca cinerea Villars var. *trachyphylla* (Hackel) Stohr

Festuca stricta Host subsp. *trachyphylla* (Hackel) Patzke, nom. inval.

Sown on roadsides, and common in grass seed mixtures. Also on railway banks, waste ground and old walls. The leaves have 4 adaxial grooves (not 2 as in *F. ovina* and *F. lemanii*), and longer lemma awns (1.2-2.6mm) and pedicels (1.2-2.8mm). The leaves are *not* strongly glaucous (as in *F. longifolia* Thuill.). Early flowering. Almost certainly under-recorded.

NH78

[X *Festulia hubbardii* Stace & R. Cotton = *Festuca rubra* x *Vulpia fasciculata*]

Recorded from Easternness and the Moray coast

[*Vulpia fasciculata* (Forssk.) Fritsch Dune Fescue] th 5
Vulpia membranacea auct. non (L.) Dumort.

Open parts of sand dunes. Very local and rare.

Recorded from the Moray coast

Vulpia bromoides (L.) Gray *Squirreltail Fescue* th 5
Festuca bromoides L.

Open grasslands on sandy soils, dry waste places, cinder tracks, paths on heaths and wall-tops. Occasional, but absent from calcareous soils. Told from *V. myuros* by the much longer lower glume (2.5-5mm), which is more than 50% of the length of the larger, upper glume, and by the fact that the base of the inflorescence is well clear of the uppermost sheath (not partly enclosed by it). Uncommon in the lowlands.

Torboll NH750990 15/07/1962 John Anthony

NC30 NC42 NC70 NC80 NC90 NC92 ND01 NH59 NH78 NH79

Achosnich NH727943 track 09/07/2013

NVC: OV 1,3

Vulpia myuros (L.) C.C. Gmel. *Rat's-tail Fescue* o th 5 †
Festuca myuros L.
Vulpia megalura (Nutt.) Rydb.

Dry waste places, disturbed ground, cinder tracks, railways, dry sandy soil and walls; confined to the drier parts of the county where it is local and uncommon. Long-lived in the seedbank. Told from *V. bromoides* by its tiny lower glume (0.4-2.5mm), which is 10-45% of the length of the upper glume (rather than 50-75%) and its narrow lemmas (less than 1.4mm wide when flattened out). The base of the long inflorescence is usually not fully exerted from the upper sheath at maturity. When open-grown, the plant forms a circular rosette, with the flowering stems spreading almost horizontally, close to the ground. Very local and rare. A single record by Mary McCallum Webster from Rogart in 1961.

Rogart 15/07/1962 BSBI

NC70

NVC: OV 19, 23

Cynosurus cristatus L. *Crested Dog's-tail* hs 6

Dry fields, dunes, roadsides and grasslands. Commonest in dry pastures, where it is resistant to trampling. Declines if mowing replaces grazing. Easy to overlook when not in flower, so under-

recorded in closely mown lawns and heavily grazed pastures. The flower stalks themselves are unpalatable to herbivores, and are often conspicuous in summer-grazed fields. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70
NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2-4; MG 1; M 22; OV 21,23; SM 16; SD 8, 16, 17; MC 11

Puccinellia maritima (Huds.) Parl. *Common Saltmarsh-grass*

hs 6

Bare mud in salt marshes and estuaries. Told from *P. distans* by its bigger lemmas (2.8-4.6mm not 1.8-2.5mm). Occasional on the coast. Typically growing with *Triglochin maritima*, *Plantago maritima* and *Aremeria maritima*.

NC91 NH78 NH79 NH88 NH89

Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Old Manse of Creich	NH635891	shingle beach	12/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Newton Point	NH711877	shingle beach	10/07/2010
Carnegie Golf Course W	NH727873	salt marsh	10/05/2011
Dornoch Common Good	NH794882	salt marsh	09/05/2011
Mound Rock	NH770980	composite	11/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Dornoch Stream Saltmarsh	NH806888	salt marsh	20/05/2012
Loch Fleet N shore	NH804974	saltmarsh	07/05/2013
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013
Dornoch Common Good	NH803880	salt marsh	30/06/2013
Loch Fleet at Balblair Wood	NC804975	salt marsh	07/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
Newton Point	NH711876	shingle beach	11/07/2013
Newton Point	NH713877	shingle beach	24/06/2014
Dornoch Common Good	NH804881	salt marsh	29/06/2014

NVC: SM 13, 16

Puccinellia distans (Jacq.) Parl. subsp. **distans** *Reflexed Saltmarsh-grass*

hs 6

Poa distans Jacq.

Panicularia distans Kuntze

Glyceria distans (Jacq.) Wahlenb.

Phippsia distans (Jacq.) Á. Löve and D. Löve

Abundantly naturalized by the sides of winter-salted roads in more southern counties, where it forms a strip about 30cm wide of grey-green grass leaves, just in from the kerb stone, where it grows with *Cochlearia danica*; the Scurvy Grass typically flourishes somewhat closer to the road. Lower panicle branches are strongly reflexed at maturity.

Stafford Terrace Brora	NC904042	waste ground	07/09/2012
Dornoch Firth Road Bridge	NH745867	shingle beach	30/06/2013

Puccinellia distans subsp. **borealis** (Holmb.) W.E. Hughes *Reflexed Saltmarsh-grass* hs 6
Puccinellia capillaris (Lilj.) Jansen

Sony, rocky or sandy places (i.e. not in the main body of the salt marsh) and on sea walls. Lower panicle branches spreading or erect at maturity (not strongly reflexed). Local and rare on the coast, usually in dried-up pans in the upper marsh.

NC70 NC90 NC91 NH89

Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010

NVC: SM 23; OV 21

Briza media L. *Quaking-grass* hs 6

Grassland, meadows, pastures, roadsides, but also in boggy fens and heathy places. Uncommon and local in the lowlands

The Mound	15/07/1957	M. McC. Webster
Dornoch Links	15/07/1983	BSBI
Golspie		John Anthony

NC80 NH79 NH88

Golspie Biblical Garden	NC837001	park	11/04/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Dornoch Airfield	NH801883	dune grassland	19/06/2011
Dornoch Dunes S	NH800883	sand dunes	14/07/2011
Dornoch Common Good	NH804885	dune grassland	29/06/2014

NVC: MG 1, 4, 5, 9

[Briza minor L. *Lesser Quaking-grass*] ● th 7

The ligule is longer than in *B. media* (2-6mm not 0.5-1.5mm) and the plant is an annual, lacking non-flowering branches.

Recorded from Easternness and the Moray coast

Briza maxima L. *Greater Quaking-grass* ● th 7

An occasional garden plant, self-seeding freely and readily naturalized on dry substrates in full sun.

Biblical Gardens Golspie	NC837001	garden	07/09/2012
Biblical Gardens Golspie	NC837154	garden	05/07/2013

Also recorded from Easter Ross, Easternness and the Moray coast

Poa annua L. *Annual Meadow-grass*

th 1

Meadows, pastures, waste places, garden ground, set-aside, roadsides and putting greens. Flowering throughout the year in a very wide range of open habitats. Requires bare soil for seedling recruitment, and hence dependent on disturbance for its persistence. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: MG 6,7,13; OV 1,3,4,7-10,12-16,18-25,28,29,31-33,35,42; S 18; U 1,2

Poa trivialis L. *Rough Meadow-grass*

hs 6

Meadows, pastures, borders of fields, damp woods, roadsides, moist meadows; common in all the districts in a very wide range of habitats. Tolerant of partial shade on fertile, water-retentive soils. Recognisable at once by its massive ligule, and flower stems that are rough to the touch. Often paler, yellowish green, than the other grasses with which it is growing. Widespread and frequent.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC60 NC61 NC62 NC63 NC70 NC72
NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78
NH79 NH89

NVC: M 22,27; MG 1,4-7,9,10,13; OV 3,4,9,10,12,15,19,21-24,26,27,29,30,33,41;
S 4-7,15,19,22,23,26,28; W 4-6,8,10,12,14,21,22,24,25

Poa humilis Ehrh. ex Hoffm. *Spreading Meadow-grass*

hs 5

Poa pratensis L. subsp. *subcaerulea* (Smith) Tutin
Poa subcaerulea Smith

Grassland, rough grass, waste ground, old walls usually on sand and often close to water. Rhizomatous, and hence not tufted. Glumes both 3-veined, and sheaths hairy at the ligule. Certainly under-recorded in the past (as *P. pratensis* sensu lato). Widespread and common.

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC52 NC60 NC61 NC70 NC71 NC72 NC73 NC74
NC80 NC81 NC82 NC83 NC90 NC91 NC92 ND01 NH68 NH69 NH78 NH79 NH89

Poa pratensis s.s. L. *Smooth Meadow-grass*

hs 5

Meadows, lawns, pastures, waysides, woods, wall-tops, heaths. Abundant in all the districts, and one of our commonest grasses. Told from *P. humilis* by its glumes which are unequal in length, the lower glume 1-veined, and sheaths not hairy at the ligule. Told from *P. angustifolia* by its non-tussocky habit and broad leaves (2-4mm not 0.5-2mm wide). Told from *P. trivialis* by its smooth (not rough) flower stalk and by its small, clerical collar of a ligule. The recent records (below) are of *Poa pratensis* s.s.

There is great scope for new field work in this group of species.

NH69

Overscaig Hotel Loch Shin	NC417231	hamlet	13/05/2011
Glen Cassley	NC455050	riverbank	10/05/2011
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Ferry Wood Lairg	NC578064	conifer plantation	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Pittentrail	NC726020	village	12/05/2011
Dalreavoch Bridge	NC755088	stream	12/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Blar-Mhor	NC874338	hamlet	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Achrimsdale	NC907065	hamlet	12/05/2011
A9 verge S of Lothbeg	NC941098	roadside	11/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Carnegie Golf Course W	NH726871	links	10/05/2011
Overskibo	NH729895	hamlet	09/05/2011
Astle	NH745919	hamlet	10/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Royal Dornoch top track	NH810914	grassy lane	14/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
S Embo links	NH815920	links	14/05/2011
Golspie Golf Course	NH822989	links	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Kilmaree	NH799982	hamlet	10/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
East Shore Street Helmsdale	ND029152	village	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Dornoch Dunes N	NH805893	sand dune	20/05/2012
Dornoch Caravan Site Bridge	NH802890	waste ground	20/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Culgower Wood	NC976119	woodland	17/05/2012
Tabart Crescent Brora	NC904035	council houses	17/05/2012
Davochfin	NH785893	roadside	04/07/2013
Carn Liath	NC867013	lane	05/07/2013
Dunrobin Beach Walk	NC842002	coastal grassland	06/07/2013
Craggie Estate House (1908)	NC872200	inbye grassland	20/06/2015
Royal Dornoch Quarry	NH806895	crags	29/06/2014
Brora Industrial Estate	NC901034	grassland	14/06/2015
West Langwell	NC689093	roadside	13/06/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015
opposite Marrel	ND022171	roadside	14/06/2015
Marrel	ND018172	woodland	14/06/2015
Glen Loth	NC940124	grassland	18/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015

Embo Dunes	NH817932	high dunes	11/06/2015
Dornoch Common Good	NH805885	high dunes	11/06/2015
Crackaig Links	NC961099	sand dunes	18/06/2015
Dudgeon Drive Brora	NC902033	council houses	14/06/2015
Helmsdale Station Yard	ND023155	waste ground	17/06/2015
Muie	NC669044	hamlet	12/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Dornoch Common Good	NH807875	high dunes	11/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Clashmore	NH745895	hamlet	17/05/2015
Dornoch Common Good	NH800881	damp grassland	11/06/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Raemore Wood Gruids	NC540046	grassland	24/06/2014

NVC: CG 2-5; M 27; MG 1,4-7,9,10; OV 13,18,21,23,27,32,42; S 18,23; U 20; W 23,24

Poa angustifolia L. *Narrow-leaved Meadow-grass* hs 5
Poa pratensis L. subsp. *angustifolia* (L.) Dumort.

Dry banks and waste places, walls and rough grassland; occasional, perhaps overlooked. Told from *P. humilis* by the glumes more or less unequal in length, the lower glume 1-veined and from *P. pratensis* by its tussocky habit and very narrow leaves (0.5-2mm not 2-4mm wide).

Poa chaixii Vill. *Broad-leaved Meadow-grass* • hs 6

Plantations and shrubberies on the larger estates, where it is planted as a woodland ornamental. Very local, but sometimes in quantity. Told by its wide leaves (6-10mm) and large lowest lemma (more than 3mm). The top leaf on the stem is much shorter than its sheath. Very well established and thoroughly naturalized in the parkland at Skibo Castle, but not yet seen anywhere else.

Carnegie Wodland	NH732892	parkland	09/05/2011
Skibo Castle N aspect	NH736891	parkland	09/05/2011

Also recorded from Easter Ross, Easternness and the Moray coast

Poa compressa L. *Flattened Meadow-grass* hs 6

Wall-tops, dry stony fields, steep rocky banks. Uncommon and in small quantity. Easy to tell by its flattened flower stem (you can not roll it between your fingers), and few basal flower branches (2 or 3). The flower stem has many more nodes than other *Poa* species (4-9 rather than 2-4 nodes) and the stem is slightly bent at each of the nodes.

Dornoch St Gilbert Street	NH796897	suburbia	10/04/2010
Dalnaclave ruined croft	NC388164	stonework	10/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
Kildonan Church	NC910207	churchyard	11/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011

[*Poa palustris* L. *Swamp Meadow-grass*] • hs 6

River banks and waste places; rare. Like *P. chaixii* but with long uppermost stem leaves, and leaves less than 6mm wide.

Recorded from Easternness and the Moray coast

Poa nemoralis L. *Wood Meadow-grass*

hs 3

Woods and shady hedge-banks. When visiting the former East Germany, I was amused to learn that the local botanists refer to this species as “Heil Hitler Grass” because of the stiff, straight angle at which the leaf blades are held, especially when viewed *en masse*. It really is an excellent description of the jizz. Very early flowering. Occasional in the lowlands.

NC50 NC70 NC90 NC91 ND01 NH59 NH68 NH69 NH78 NH79 NH89

Shin Falls	NH577993	woodland	12/07/2010
Shinness Lodge	NC530150	hamlet	13/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Big Burn Golspie	NC840009	woodland	07/05/2011
Clynekirkton ruins	NC894060	churchyard	12/05/2011
Kintradwell Burn	NC918077	woodland	08/05/2011
Helmsdale Riverside	ND026154	woodland	08/05/2011
Helmsdale Church	ND026155	churchyard	08/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Bonar Bridge C	NH610914	village	07/05/2011
Skibo Castle N drive	NH728869	parkland	10/05/2011
Carnegie Wodland	NH732892	parkland	09/05/2011
Skibo Castle N aspect	NH736891	gardens	09/05/2011
Balblair Wood Loch Fleet	NH811978	pine plantation	08/05/2011
North Street Dornoch	NH797897	terrace	09/07/2011
Ben Bhraggie Hotel Golspie	NC838002	suburbia	07/09/2012
Tulloch Place Bonar Bridge	NH608920	semi-detached	06/09/2012
Old Road Bridge Brora	NC906039	stonework	07/05/2013
Saint Demhan's Cross	NH636892	graveyard	08/05/2013
Cnoc na Croiche Dunrobin	NC845004	policy woodland	06/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Bonar Bridge Riverside	NH610915	riverbank	12/05/2015
Golspie	NC832000	village	08/05/2015
lower Allt Sgrigil wood	ND022175	woodland	14/06/2015
Park Terrace Brora	NC905040	village	13/06/2015

NVC: W 8, 10, 12, 14, 15

Poa glauca Vahl *Glaucous Meadow-grass*
Poa balfourii Parn.

hs 6



Poa glauca Erling Ólafsson

Damp rock ledges in the mountains. Local and rare on the highest hills of the extreme west.

Ben More Assynt	NC318195	03/08/2000	E. Grieg Hall
Dubh Loch Mor	NC320190	11/07/1998	Gordon Rothero
Coire a' Mhadaidh	NC305209	12/07/1998	Gordon Rothero

NC31 NC32

NVC: U 17

Poa alpina L. *Alpine Meadow-grass*

hs 6



Poa alpina Craig Robson

Damp mountain slopes, rocky crevices and ledges. Ben More Assynt (1826). Very local and rare.

Ben More Assynt			15/07/1959	D.A. Ratcliffe
Ben More Assynt E-facing		crag	15/07/1977	Derek Ratcliffe
Ben More Assynt summit	NC320201	crag	12/07/1998	Gordon Rothero

NVC: CG12

Dactylis glomerata L. *Cock's-foot*

hs 5

Meadows, pastures, long grass, roadsides, railway embankments and waste places, preferring dampish soil. Abundant and generally distributed. Preferred by rabbits and declines under heavy grazing pastures, but forms large tussocks after fencing to exclude rabbits. Long term rabbit enclosure leads to co-dominance with *Festuca rubra* and a great reduction in plant species richness as most low-growing herbs and other grasses suffer competitive exclusion. Often with abundant cuckoo spit produced by *Philaenus spumarius*. Widespread but commonest in the lowlands.

NC30 NC40 NC41 NC42 NC50 NC51 NC60 NC62 NC63 NC70 NC71 NC73 NC74 NC80 NC81
NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2,3; M 27; MG 1,4-7,9,10,13; OV 9,10,12,15,18-27,33,41,42; S 18,26; W 1,6,8,10,12,14,21-25

Catabrosa aquatica (L.) P. Beauv. *Whorl-grass* hel 6
 Aira aquatica L.
 Catabrosa aquatica (L.) P. Beauv. subsp. minor (Bab.) Perring and Sell

By springs and ditches, on nutrient-rich mud in unpolluted water. Very local and rare.

The Mound	15/07/1883	J. Grant
The Mound	15/07/1962	A.McG. Sterling

NH79

NVC: no data

[Catopodium rigidum (L.) C.E. Hubb. *Fern-grass*] th 5
 Poa rigida L.
 Festuca rigida (L.) Rasp., non Roth
 Desmazeria rigida (L.) Tutin

A tiny, stiff grass of dry waste ground, grassland and sandy ground, railway ballast and tops of old limestone walls, in small quantity and preferring sunny spots.

NVC: OV 42; MC 5

Recorded from the Moray coast

[Catopodium marinum (L.) C.E. Hubb. *Sea Fern-grass*] th 5
 Desmazeria marina (L.) Druce

Dry bare places by the sea, on sea walls, banks sand and shingle often with *C. rigidum*.

Recorded from the Moray coast

NVC: no data

[Parapholis strigosa (Dumort.) C.E. Hubb. *Hard-grass*] th 5

Open ground in salt-affected communities on the coast. Very local and rare

Recorded from the Moray coast

[Parapholis incurva (L.) C.E. Hubb. *Curved Hard-grass*] th 5

Open ground in salt-affected communities on the coast. Very local and rare

Recorded from the Moray coast

[Hainardia cylindrica (Willd.) Greuter *One-glumed Hard-grass*] th 5
 Monerma cylindrical (Willd.) Coss. & Durieu

A very rare bird seed alien.

Recorded from the Moray coast

Avenula pubescens (Hudson) Dumort. *Downy Oat-grass*

hp 6

Avena pubescens Hudson

Helictotrichon pubescens (Huds.) Pilg.

Avenochloa pubescens (Hudson) Holub

Crags, heaths, rough grassland, gravelly pastures, meadows, roadsides and railway banks. Told by its hairy lower sheaths and spikelets with few florets (2-3 rather than 3-6). Widespread in the lowlands and foothills; locally frequent but often represented by only a few individuals.

NC32 NC50 NC60 NC70 NC71 NC73 NC80 NC84 NC90 NC91 ND01 NH68 NH69 NH78 NH79
NH88 NH89

Glen Cassley	NC357209	crags	10/07/1998 Gordon Rothero
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Dornoch Airfield	NH805883	dune grassland	19/06/2011
Halmadarie Burn	NC697302	rocky stream	20/06/2011
Gernsary croft	NC730323	dry stone wall	20/06/2011
Rimsdale Burn	NC739398	stream	22/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Littleferry	NH808957	sand dunes	23/06/2011
Coul Links	NH810952	sand dunes	23/06/2011
Coul Links Ferry ruins	NH806953	coastal grassland	23/06/2011
Crackaig Links	NC958097	sand dunes	23/06/2011
Brora Links	NC912048	sand dunes	23/06/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
R Brora W of Braegrudie	NC712103	riverbank	07/07/2013
Coill' an Tosgaire Oykel	NC340515	riverbank	09/07/2013
Creagandamph	NC733170	streamside crag	10/07/2013
Braemore Grudie Burn	NC539031	Schoenus flush	24/06/2014
Dornoch Common Good	NH804885	dune grassland	29/06/2014
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Embo Dunes	NH817932	high dunes	11/06/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Dornoch Common Good	NH800882	damp cgrassland	11/06/2015
Dornoch Common Good	NH807875	high dunes	11/06/2015
Dornoch Common Good	NH805885	high dunes	11/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
opposite Marrel	ND022171	roadside	14/06/2015
Dornoch Common Good	NH803885	damp grassland	11/06/2015
Crackaig Links	NC961099	sand dunes	18/06/2015

NVC: CG 1-8; MG 1-3, 5, 8; OV 41; SD 8

Avenula pratensis (L.) Dumort. *Meadow Oat-grass*

hp 6

Avena pratensis L.

Helictotrichon pratense (L.) Besser

Avenochloa pratensis (L.) Holub

Grassland by the sea. Told by its hairless lower leaf sheaths and spikelets with numerous florets (3-6 rather than 2-3). Local and uncommon.

NC80 NC90 ND01 NH69 NH78 NH79 NH88 NH89

Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Littleferry	NH808957	sand dunes	23/06/2011
Strath Fleet	NC623056	roadside	10/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Wind Sock	NH800883	dune slacks	30/06/2013
Royal Dornoch Quarry	NH806895	crags	29/06/2014

NVC: CG 5-10, 13, 14; U 4, 15; MC 11; OV 37, 38

Arrhenatherum elatius (L.) P. Beauv. ex J. Presl and C. Presl *False Oat-grass*

hp 6

Avena elatior L.

Arrhenatherum precatorium Beauv.

Roadsides, railway embankments, rough ground, hedges, pastures, thickets. This is the "long grass" that you played in as a child. A palatable species that declines under grazing, but which is tolerant of occasional mowing. Because of this, it is much more abundant in hay meadows than in grazed pastures. Widespread and locally abundant in the lowlands.

NC30 NC32 NC40 NC42 NC50 NC51 NC60 NC63 NC70 NC71 NC74 NC80 NC81 NC82 NC83
NC90 NC91 NC92 ND01 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2-4; M 22,27; MG 1,4-7,9; OV 9,18,22-24,26,27,30,39,41,42; S 7,25,26;
W 6,8,10,12,21,23-25

[**Arrhenatherum elatius** var. **bulbosum** (Willd.) St-Amans *Bulbous False Oat-grass*]

hp 6

Arrhenatherum tuberosum (Gilib.) F.W. Schultz

Arrhenatherum elatius subsp. *bulbosum* (Willd.) Hyl.

This grass is told at once by the stout, typically double bulbs just below the soil surface. Above ground, the plant is bluer-green, with straighter, stiffer, more erect (less floppy) leaves than the type. It can be a troublesome weed of arable land.

Recorded from Easter Ross, Easternness and the Moray coast

Avena strigosa Schreb. *Bristle Oat*

• th 7

A rare weed of cornfields, typically now a rare casual. Unlike our other 2 wild oat species, the lemma veins reach to the apex of the bifid tip of the lemma.

Bonar Bridge		15/07/1836	Murray
NW of Embo	NH799945	23/06/1980	M.J. Marshall det. T. Cope

NH59 NH69 NH79

Avena fatua L. *Wild-oat* ○ th 7

Arable fields. The rhachilla breaks up at maturity between the florets so that the fruits are dispersed separately (cf. *A. sterilis*, below); i.e. there are separate abscission scars on each floret. Very local and rare.

NC70

Stittenham Road Helmsdale	ND026155	walled gardens	09/09/2012
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NVC: OV 7, 8, 13, 15, 16, 25, 33

Avena sativa L. *Oat* ● th 6

Domestic oat is a frequent casual in arable fields, waste places and tips. The florets are un-awned and do not disarticulate at maturity (as you would quickly select for, if you wanted to harvest the grains). Local and rare, but possibly under-recorded.

NH78

Kirkton	NH799986	farmstead	10/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011

Trisetum flavescens (L.) P. Beauv. *Yellow Oat-grass* hp 5
Trisetum pratense
Avena flavescens L.

Grassy places; meadows, pastures, roadsides. Local and rare.

Brora		15/07/1962	M. McC. Webster
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NC80 NC90 NH78

Loth Station Cottage	NC957100	hamlet	18/06/2015
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NVC: CG 2-5; MG 1,4-6,9; W 24

Koeleria macrantha (Ledeb.) Schult. *Crested Hair-grass* hp 6
Aira macrantha Ledeb.
Koeleria gracilis Pers., nom. illegit.
Koeleria cristata auct., non (L.) Pers.
Koeleria glauca auct., non (Sprengel) DC.
Koeleria albescens auct., non DC.

Koeleria britannica (Domin ex Druce) Ujh.

Coastal grassland. Locally frequent by the sea.

NC30 NC60 NC70 NC71 NC80 NC90 NC91 ND01 NH69 NH78 NH79 NH88 NH89

Glaslochan Links N Brora	NC912060	coastal grassland	11/07/2010
Glaslochan Links N Brora	NC915062	blow-out	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Strathsteven Cottage	NC879013	coastal grassland	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Dornoch Airfield	NH802882	coastal grassland	13/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Dornoch Dunes	NH806876	sand dunes	19/06/2011
Golspie Links	NH822983	sand dunes	23/06/2011
Brora Golf Course	NC912041	sand dunes	23/06/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Dornoch Links E	NH790880	composite	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Dunes S	NH800880	sand dunes	14/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Dornoch Firth Road Bridge	NH745870	coastal heath	30/06/2013
Dornoch Common Good	NH801882	salt marsh	30/06/2013
Dornoch Common Good	NH806881	sand dune	30/06/2013
Coul Links	NH805951	heather dunes	04/07/2013
Coul Links	NH805952	sand dune	04/07/2013
former caravan park Hilton	NH807915	grassland	04/07/2013
Carn Liath Broch	NC870132	ruins	05/07/2013
Dunrobin Beach Walk	NC842264	coastal grassland	06/07/2013
Witches Pool Dornoch	NH800892	sand	08/07/2013
Royal Dornoch Quarry	NH806895	crag	29/06/2014
Dornoch Common Good	NH804885	dune grassland	29/06/2014

NVC: SD 8-10, 12; MC 5, 9-11; OV 34, 37, 39, 40; U 1

Deschampsia cespitosa (L.) P. Beauv. *Tufted Hair-grass*
Aira cespitosa L.

hs 6

Damp pastures, ditches, commons, heaths, woodland rides, swamps, etc.; generally distributed and common. Druce's advice on pasture management would certainly raise a few eyebrows amongst conservationists today: "It is injurious in meadows and can only be extirpated by draining and burning".

Deschampsia cespitosa subsp. *cespitosa* *Tufted Hair-grass*

Marshy fields and moors. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
 NH59 NH68 NH69 NH78 NH79 NH89

NVC: CG 9, 10, 11, 12, 14; U 4, 5, 7-19; M 7-12, 22-25; MG 4,6,9,13; S 1, 23, 28; OV 26, 27, 32

[***Deschampsia cespitosa*** subsp. ***parviflora*** (Thuill.) Dumort. *Tufted Hair-grass*]

Wet woodlands. Told from subsp. *cespitosa* simply by its smaller spikelets (2-3 rather than 3.5-5mm).
 Occasional.

NVC: W 4-6, 8, 10, 12, 14, 16, 24

Recorded from Easternness.

Deschampsia cespitosa subsp. ***alpina*** (L.) Hook. f. *Alpine Hair-grass*

Deschampsia alpina (L.) Roem. & Schult.

Deschampsia laevigata (Sm.) Sm. ex Roem. & Schult.



Deschampsia alpina Thomas Roland

Stony places on the highest mountains. Ben More Assynt (1824). Very local and rare.

Ben More Assynt 2200ft	15/07/1897	E.S. Marshall
Ben More Assynt	15/07/1959	D.A. Ratcliffe
Ben Hee	15/07/1973	A.G. Kenneth
E-facing crags on Ben More Assynt	15/07/1977	Derek Ratcliffe
Conival N ridge NC300202	12/07/1998	Gordon Rothero

NC31 NC32 NC43

Deschampsia setacea (Huds.) Hack. *Bog Hair-grass*

hs 6



Deschampsia setacea JC Schou

Shores of lochans, and margins of peaty pools. Local and rare. It has smaller lemmas than *D. flexuosa* (2-3mm not 3.5-5mm) and the marginal teeth at the apex of the lemma are longer than the central teeth (not the same size).

W Loch Tigh na Creige Creich shore	NC610092	29/08/1978	M.J.M. det. C.E. Hubbard John Anthony
Loch as Airde	NH700903	15/07/1987	Anon.
Loch Beannach	NC600125	15/07/1987	Anon.
Tulloch Pools	NH618924	15/07/1987	Anon.
Tulloch Pools	NH618932	15/07/1987	Anon.

NC60 NC61 NH69 NH79

NVC: M30

Deschampsia flexuosa (L.) Trin. *Wavy Hair-grass* hs 6
Aira flexuosa L.

Dry grassland, heaths, mires, amongst heather on hillsides and woods. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: W 2, 4, 10, 11, 14-20, 23; M 2, 4, 5, 7, 15, 17-20, 31; H 4, 8-22; MG 3; CG 10-12, 14; U
1-14, 16-18, 20, 21; SD 12; MC 9

Holcus lanatus L. *Yorkshire-fog* hp 6

Meadows, cultivated ground and fallow fields and waste places, preferring nutrient-rich soils. Abundant and generally distributed in a very wide range of habitats. A non-rhizomatous, tufted grass. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH39 NH49 NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: CG 2-5; M 13,22,24,27; MG 1,4-7,9,10,13; OV 4,9,10,19-27,30,32,42;
S 4,7,14,15,19,23,26,28; U 1,20; W 1,4-6,8,10,14-16,21-24

Holcus mollis L. *Creeping Soft-grass* hp 6

Locally dominant in open deciduous woods, heaths, and grasslands on acid sandy soils, often growing with *Pteridium*. A rhizomatous, carpet-forming (not tussocky) grass. Very commonly attacked by Choke fungus, *Epichloe typhina*, like a chalky white collar on the upper stem. Widespread and common.

NC30 NC31 NC32 NC40 NC41 NC50 NC51 NC52 NC60 NC61 NC62 NC63 NC70 NC71 NC72
NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH39 NH49 NH59 NH68
NH69 NH78 NH79 NH88 NH89

NVC: MG 1,9; OV 1,9,23,27; S 14,15; U 2,20; W 4,6,8,10

[*Corynephorus canescens* (L.) P. Beauv. *Grey Hair-grass*]

hp 6

Sand dunes, on secondarily open, leached substrates. Very local by the sea.

Recorded from the Moray coast.

Aira caryophyllea L. *Silver Hair-grass*

th 5

Aira multiculmis Dumort.

Aira caryophyllea L. var. *multiculmis* (Dumort.) Mathieu

Aira plesiantha Jordan ex Boreau

Dry open grassland and heaths on more or less acid sandy soils, railway banks and cinder beds. Local, and absent from calcareous soil.

Strathsteven Cottage	NC879013	coastal grassland	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
East Helmsdale sea front	ND035152	coastal grassland	19/06/2011
Cuthill Links	NH748874	waste ground	24/06/2011
Cuthill Links	NH748863	coastal grassland	24/06/2011
Embo Street Hilton	NH796913	hamlet	10/07/2011
Mound Rock	NH770980	dry grassland	11/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Loch Airighe Mhor	NC690020	dry grassland	16/07/2011
Inchcape	NC690030	dry grassland	16/07/2011
R Brora at Balnacoil	NC807110	riverbank	10/09/2012
Dornoch Firth Road Bridge	NH747863	embankment	30/06/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Dornoch Lochans Davochfin	NH777889	lochans	04/07/2013
Strath of Kildonan	NC957185	ravine birch wood	05/07/2013
Carn Liath Broch	NC870013	ruins	05/07/2013
Allt Horn Dunrobin Glen	NC801049	conifer plantation	06/07/2013
West Helmsdale	ND020157	hamlet	27/06/2014
Kildonan Station approach	NC901217	compacted gravel	17/06/2015
Loth Station Cottage	NC957100	hamlet	18/06/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015

NVC: H 6, 7, 11; SD 19; MC 5; OV 2, 34, 39

Aira caryophyllea subsp. *multiculmis*

Bonar Bridge NH611914 26/06/1979 U.K. Duncan det. C.E. Hubbard

Aira praecox L. *Early Hair-grass*

th 4

Dunes, dry bare sandy and rocky slopes, open, acid grassland, dry heathy and sandy fields, commons, dry banks, paths, waste ground and wall-tops. Locally common, and much more frequent than *A. caryophyllea*. Widespread at lower altitudes.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH59
 NH68 NH69 NH78 NH79 NH88 NH89

Carnegie Golf Course	NH731871	shingle beach	10/07/2010
Braefoot Portgower	ND010133	coastal grassland	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Criagan Mora Achormlarie	NH701949	cleugh woods	13/07/2010
Leathad nan Toll Beinn	NH696959	moorland	13/07/2010
Muie	NC669044	hamlet	13/05/2011
Ross Gardens Golspie	NC834004	council houses	14/05/2011
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
Kildonan Station	NC901217	railway	11/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Maikle Wood Viewpoint	NH605948	dry heath	18/06/2011
Royal Dornoch car park	NH800894	waste ground	18/06/2011
Kinbrace Burn	NC872285	hamlet	19/06/2011
Achentoul Burn	NC897326	waterfall	19/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
Cuthill Links	NH748863	coastal grassland	24/06/2011
Mound Rock crags	NH780985	crags	10/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Gordonbush Lodge	NC844096	parkland	10/09/2012
Stafford Street Helmsdale	ND029154	waste ground	09/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Portgower	ND010134	shingle beach	07/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Rhemusaig Rogart	NC731020	old quarry	18/05/2012
Skibo Golf Sheds	NH732872	waste ground	16/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Glen Sletdale	NC917126	stream bank	01/07/2013
Loch Front Lairg	NC581062	loch shore	02/07/2013
Well Street Dornoch	NH000000	cottages	04/07/2013
Carn Liath Broch	NC870013	ruins	05/07/2013
Creagan Dubh	NH724954	summit heath	09/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Brora Golf Club	NC909039	suburbia	27/06/2014
Fiag Road	NC456270	roadside	26/06/2014
Fiag Road	NC457256	roadside	26/06/2014

Fiag Road	NC463230	roadside	26/06/2014
Fiag Road	NC465210	roadside	26/06/2014
NW of Braemore Grudie	NC539031	Schoenus flush	24/06/2014
Rosehall Forest Trails	NC479018	pine plantation	28/06/2014
Anderson Court Dornoch	NH791895	new housing	29/06/2014
Kildonan tip at Dalbhat	NC902212	dump	18/06/2015
Gallows Hill Dornoch	NH803901	derelict garden	21/06/2015
Brora Rangers FC car park	NC902035	compact ground	14/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Kildonan Station approach	NC901217	compacted gravel	17/06/2015
Kinbrace Cemetery	NC859313	cemetery	16/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
Meall Eachainn	NC618004	summit heath	12/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Kinbrace Station platform	NC862316	compacted gravel	16/06/2015

NVC: W 23; H 7, 8, 11; CG 10; U 1; SD 7, 8, 10, 11, 18, 19; MC 5, 9, 10; OV 2

Anthoxanthum odoratum L. *Sweet Vernal-grass*

hp 4

Grasslands, heaths, moors and open woods. Widespread and common in an extraordinary range of habitats.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH88 NH89

NVC: W 4, 7, 9-11, 16, 17, 19, 20, 23-25; M 4, 6-8, 10, 11, 13, 15, 17, 22-28, 32, 38; H 4, 6-8,
10-12, 16, 18, 20; MG 1-10, 12, 13; CG 4-7, 9-14; U 1-6, 13-21; S 1, 7; SM 16; SD 8, 9, 11, 12,
14, 17, 19; MC 9, 10, 12; OV 2, 27, 37

Phalaris arundinacea L. *Reed Canary-grass*

hel 6

Baldingera arundinacea (L.) Dumort.

Phalaroides arundinacea Rauschert

Sides of rivers, ditches, ponds, canals and brooks. Frequent in the lowlands.

NC31 NC40 NC41 NC50 NC51 NC60 NC70 NC71 NC74 NC80 NC81 NC83 NC84 NC92 ND01
NH68 NH69 NH78 NH79 NH89

Dornoch Cnoc-An-Lobht	NH794898	suburbia	10/04/2010
Culmailly Burn	NH812978	stream	11/07/2010
Tuiteam	NC436013	hamlet	12/07/2010
Linsidmore Wood	NH498998	riverbank	12/07/2010
Dornoch Industrial Estate	NH797898	waste ground	09/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Linsidmore Wood	NH530990	woodland	12/07/2011

R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
West Shinness Lodge	NC530151	hamlet	08/09/2012
Duke Street Golspie	NC839001	riverbank	07/09/2012

NVC: M 22,27; MG 9,10; OV 26,28-32; S 4-7,12-14,19,23,25,26,28; W 1,5,6,24

Phalaris arundinacea 'Picta' *Gardener's Garters*

• hel 6

A common variegated garden plant, often thrown out because it is so vigorous, and naturalised frequently in rough grass, woodland edges and waste ground. Long persistent and tenacious in competition with other grasses.

Lairg Main Street	NC584063	street	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora Main Street	NC905038	street	11/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Embo	NH815928	village	11/07/2010
Rosehall	NC470021	village	12/07/2010
Camore	NH778903	council houses	12/07/2010
Tirryside Loch Shin	NC567106	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Back Road Golspie	NC829000	council houses	08/05/2011
N Helmsdale	ND026156	village	08/05/2011
Whiteface	NH708893	roadside	07/05/2011
Skibo Castle greenhouses	NH735892	brickwork	09/05/2011
Brenan Terrace Dornoch	NH799897	council houses	14/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Sutherland Road Dornoch	NH792897	town houses	18/06/2011
Helmsdale Harbour	ND029151	terrace	19/06/2011
Sutherland Street Helmsdale	ND027153	street	19/06/2011
Embo	NH817928	village	23/06/2011
Wester Drumliah	NH607934	hamlet	09/07/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Castle Hotel Dornoch	NH797895	garden	09/07/2011
The Terrace Lairg	NC581059	semidetached	10/07/2011
Skelbo Street Skelbo	NH791943	hamlet	10/07/2011
Kirkton	NH799986	farmstead	10/07/2011
Morvich	NC753007	hamlet	11/07/2011
Dunrobin Street Helmsdale	ND029153	terrace	13/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Clashmore	NH747895	village	11/09/2012
The Crask Inn	NC523246	garden	10/09/2012
Badanloch Lodge	NC798333	hamlet	10/09/2012
Stafford Street Helmsdale	ND029153	bungalows	09/09/2012
Sutherland Street Helmsdale	ND028153	walled gardens	09/09/2012

Sutherland Street Helmsdale	ND026156	terrace	09/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Rockview Place Helmsdale	ND031153	council houses	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Millicent Avenue Golspie	NH828998	council houses	07/09/2012
Swordale Crescent Bonar	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar	NH610917	council houses	06/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Ord Place Lairg	NC579059	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Shin Creek Achany	NC574001	hamlet	16/05/2012
Rovie Lodge Strath Fleet	NC714037	hamlet	04/05/2013
Rosehall	NC470020	village	06/05/2013
Main Street Brora	NC903039	street	07/05/2013
Embo	NH817928	village	08/05/2013
Macdonald Road Dornoch	NH799898	council houses	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
High Street Lairg	NC584063	village	02/07/2013
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Grange Road Dornoch	NH803897	suburbia	29/06/2014
Culnara	NH625921	hamlet	08/05/2015
Rosehall	NC470021	village	10/05/2015
Lower Brora	NC908037	bungalows	11/05/2015
Crask Inn	NC523246	hamlet	13/05/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Murray Road Dornoch	NH801898	council houses	17/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Sutherland Street Helmsdale	ND027154	village	17/06/2015
River Street Dornoch	NH799893	bungalows	17/05/2015

Phalaris canariensis L. *Canary-grass*

• th 6

On rubbish tips, shingle beaches and waste ground near houses as a bird-seed alien. One of the commonest (and most easily recognised) of all the bird-seed aliens. Also grown as an ornamental in gardens.

NC80 NH89

East Shore Street Helmsdale ND031151 shingle beach 07/09/2012

Phalaris minor Retz. *Lesser Canary-grass*

• th 6

A rare grain or wool alien found in sandy places.

NC52

[Phalaris paradoxa L. Awned Canary-grass]

• th 6

An uncommon grain alien, found on set-aside land and in waste places.

Recorded from Easter Ross.

Agrostis L.

There are two things to know before trying to identify *Agrostis* species. You *must* look underground to see if the plant has rhizomes or not. And you *must* determine whether the palea is relatively long or relatively short compared with the lemma (this is a fiddly operation to accomplish in the field because the spikelets are so small, and is better done indoors, with a good light source and more powerful magnification).

Agrostis capillaris L. Common Bent

hp 6

Agrostis tenuis Sibth.

Agrostis vulgaris With.

Dry pastures, roadsides, lawns, heaths; common and generally distributed. Often dominant in acid grassland. Essentially, this is a grass without any real distinguishing features (no ligule, no hairs, etc.), but the bright green leaves are held in a characteristic way; they are stiff and straight ("non-floppy"), and lie at a constant angle of about 40 degrees to the vertical. Its identification needs to be confirmed by attention to detail. The palea is large, and rhizomes are present. Ligules of tillers (on non-flowering shoots) are shorter than wide, and the leaves are rarely more than 4mm wide. Non-flowering individuals can be hard to tell from *Briza media*, *Alopecurus pratensis*. It is a good competitor for both phosphorus and potassium, and is abundant on acidic soils that are low in both these nutrients. The plant is a common component of turf grazed by sheep or rabbits, but is overcome by more palatable, faster growing species like *Festuca rubra*, *Arrhenatherum elatius* or *Dactylis glomerata*, if herbivores are excluded (e.g. by fencing). Often attacked by 'Grass Choke', *Epichloë typhina*, a fungal pathogen that produces hard, white, chalky collars on non-flowering stems. Widespread and common in many habitats.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: W 1, 4, 7, 9, -11, 14-20, 22-25; M 6, 8, 12, 15, 23, 25, 32, 33, 37; H 1, 4, 6-12, 14, 16, 18-21;
MG 3-12; CG 6-14; U 1-11, 13-21; S 23; SD 6-12, 15-17; MC 5, 9-11; OV 4, 9-11, 17-19, 22,
23, 27, 37, 42

[Agrostis x murbeckii Fouill. = A. capillaris x A. stolonifera]

Probably under-records. Intermediate in ligule and panicle shape. Vigorous and highly sterile.

Recorded from the Moray coast .

Agrostis gigantea Roth Black Bent

○ hp 6

Agrostis vulgaris var. *nigra*

Agrostis stolonifera L. var. *ramosa* Veldk.

Cornfields and dry cultivated ground; locally common but overlooked. The palea is large. The presence of rhizomes distinguishes it from *A. stolonifera*. It is told from *A. capillaris* by its larger leaves (often more than 5mm wide) and bigger ligules (longer than wide) on non-flowering tillers. In the field, the best characters are the habitat (arable weed), the large size of the flower stems, and the fact that the spikelets are clustered at the ends of the panicle branches. Local and rare.

NC70 NC73 NC82 NH78

NVC: no records

[**Agrostis castellana** Boiss. & Reut. *Highland Bent*] • hp 6
Agrostis capillaris L. subsp. *castellana* (Boiss. & Reuter) O. Bolòs, Massales and Vigo

A common component of seed mixtures found in lawns, roadsides and sports grounds. Frequent, but under-recorded. Palea large, rhizomes present. The only way to tell it from *A. capillaris* is to dissect the spikelet under high power with good illumination. The presence of a tuft of hairs on the lemma callus (although this is often inconspicuous) will confirm it. If there are awns (and there often are), they arise from the basal third of the lemma (not from the tip).

Recorded from West Sutherland.

Agrostis stolonifera L. *Creeping Bent* hp 7
Agrostis alba

Stream sides, wet meadows, damp waste ground, ditches, marshes, lake sides and the edges of ponds, also a weed of damp arable ground, rough grassland, heaths and thickets; very abundant and generally distributed in an extremely wide range of habitats. Palea large, rhizomes absent (or short, less than 4 scale leaves), but stolons well developed. The panicle is contracted into a narrow cylinder after flowering. Widespread and common in the lowlands.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC60 NC62 NC70 NC71 NC72 NC73
 NC74 NC80 NC81 NC82 NC83 NC90 NC91 NC92 ND01 NH68 NH69 NH78 NH79 NH88 NH89

Merkland Lodge	NC400296	loch-side	13/05/2011
Mill Way Brora Industrial Estate	NC904040	waste ground	08/05/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Loch Badanloch fishermen's car park	NC788329	loch side	20/06/2011
Garbh-allt Garvault Hotel	NC781389	stream	21/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Achneluachrach	NC679098	farmstead	22/06/2011
Braefoot Portgower	ND010135	railway	23/06/2011
West Merkland	NC384329	disturbed ground	08/09/2012
West Merkland	NC384329	hamlet	08/09/2012
Creag an Sgamhlainn new estate road	NC370328	disturbed ground	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Navidale House Hotel	ND039158	sea cliff	07/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012

Swordale Crescent Bonar Bridge	NH611915	council houses	06/09/2012
Gilmour Crescent Bonar Bridge	NH610917	council houses	06/09/2012
Lairg Station	NC583039	railway	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
The Pier Cafe Lairg	NC580067	waste ground	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Dornoch Stream	NH803889	streamside	20/05/2012
Golspie Tower	NC830010	hamlet	18/05/2012
Strath Carnaig birch woods W	NH723983	birch wood	18/05/2012
Strath Carnaig birch woods C	NH735983	birch wood	18/05/2012
Strath Carnaig birch woods E	NH744984	birch wood	18/05/2012
Strath Carnaig birch woods	NH716982	birch wood	18/05/2012
Front Street Embo	NH817927	village	18/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Achue	NH696912	hamlet	16/05/2012
etc.			

NVC: CG 2-4; M 13,22,24,27; MG 1,4-7,9,10,13; OV1,3,4,7,9,10,12-16,18-21,23-26,28-33,35,42; S 4,6,12,13,18,19,22,23,26,28; U 1,20; W 1,4-6,14,16,24

Agrostis canina L. *Velvet Bent*

hp 6

Damp meadows, marshes, ditches, pond sides and rough grassy places on acid soils. Frequent, but much confused with *A. vinealis* in the past. The wet/dry habitat difference is useful for confirmation, but should not be used on its own. Palea minute, less than 40% of lemma length, rhizomes absent, stolons present, bearing tufts of shoots at the nodes, ligule (on the second culm-leaf from the base) usually more than 1.5 times as long as wide. Under-recorded.

NC40 NC41 NC60 NC70 NC72 NC73 NC81 ND01 NH79

Migdale Wood	NH652911	pine wood	18/06/2011
W Loch Trudersceg	NC715310	stream	20/06/2011
Rubha Geal	NC743335	wet heath	20/06/2011
Garbh-allt Garvault Hotel	NC781389	stream	21/06/2011
Cnoc na h-lolaic	NC692348	forest	21/06/2011
Feith Osdail	NC574139	riverbank	22/06/2011
Preas nan Sgiathanach	NC684097	wet heath	22/06/2011
Achnahuie	NC709080	wet heath	22/06/2011
N of Green Loch	NC720400	roadside	22/06/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Coire Gorm	NC360280	composite	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Sgialach Coire	NC370290	composite	13/07/2011
N of Coire Gorm	NC360290	crag	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Ben Hee	NC420320	composite	13/07/2011
Ben Griam Mor SW crags	NC800380	composite	15/07/2011
Ben Griam Mor	NC800390	composite	15/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011

Dall na Ceardaich	NC620160	composite	16/07/2011
Beinn Dhorain mid slope	NC933154	heather	09/09/2012
Beinn Dhorain saddle	NC925160	summit heath	09/09/2012
Ben Uarie summit heath	NC928164	summit heath	09/09/2012
Ben Uarie choked stream	NC928159	streamside	09/09/2012
Allt Criche border stream	NC364328	wet heath	08/09/2012
Doire Dubh border stream	NC366327	wet grassland	08/09/2012
Creag an Sgamhlainn	NC370328	new road	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Delnaleish	NC868049	dry heath	05/05/2013
Oldtown Rock	NC860091	dry heath	05/05/2013
Halmadarie Burn	NC696296	streamside	12/07/2013

etc.

NVC: CG 10; M 2-7, 11-13, 15, 17, 23, 24, 27, 29, 31, 32; OV 35; S 1, 8, 11, 12, 14, 27; U 2, 4, 20; W 1, 2, 4, 7, 20

Agrostis vinealis Schreb. *Brown Bent*

hp 6

Agrostis stricta J. Gmelin

Agrostis coarctata Ehrh. ex Hoffm.

Agrostis canina L. subsp. *montana* (Hartman) Hartman

A plant of dry heathy places; local, but common where it occurs. Told from *A. canina* by the presence of rhizomes and the absence of stolons. Palea minute, less than 40% of lemma length, ligule on second culm-leaf usually less than 1.5 times as long as wide. Under-recorded.



Foto: Arne Anderberg

NC30 NC31 NC32 NC40 NC41 NC42 NC50 NC52 NC60 NC61 NC62 NC70 NC71 NC72 NC73
NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH69 NH79

Sallachy Loch Shin	NC555073	birch wood	13/07/2010
Beinn Domhnaill	NH696959	moorland	13/07/2010
Rubha Geal	NC743335	wet heath	20/06/2011
N of Green Loch	NC720400	roadside	22/06/2011

Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Ben Griam Beg	NC830410	mountain ridge	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011
E of Sallachy	NC520080	composite	16/07/2011
Loch na Caillich	NC500080	composite	16/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Gordonbush Lodge	NC844096	parkland	10/09/2012
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Beinn Dhorain upper slope	NC932154	heather	09/09/2012
West Merkland	NC384329	disturbed ground	08/09/2012
Creag an Sgamhlainn	NC370328	disturbed ground	08/09/2012
Creag an Sgamhlainn	NC374328	craggy birch wood	08/09/2012
Killin Rock	NC870055	dry heath	05/05/2013
Cnoc na Gamhna	NC780037	dry heath	05/05/2013
Creag a'Bhodaich Sletdale	NC913135	rocky slope	01/07/2013
Glen Sletdale	NC915161	crag	01/07/2013
Carn Garbh Glen Sletdate	NC906145	dry heath	01/07/2013
Carn Garbh Glen Sletdate	NC906142	crag	01/07/2013
Carn Garbh Glen Sletdate	NC906134	crag	01/07/2013
Glen Cassley Hydro	NC369201	dry heath	03/07/2013
Sron Lom Glen Cassley	NC356211	grassy slopes	03/07/2013
Druim nan Comhrag	NC901261	streamside	05/07/2013
Cnoc na Beiste Kildonan	NC905270	dry heath	05/07/2013
Suisgill Burn Kildonan	NC904269	ravine birch wood	05/07/2013
etc.			

NVC: W 11, 17-19; H 4-6, 8, 18; U 1, 3, 4; CG 10; OV 34

Calamagrostis epigejos (L.) Roth *Wood Small-reed*
Arundo epigejos L.

hp 7

Damp woodland rides and wood margins. Very local and rare.

NC60

NVC: S 24

[Calamagrostis scotica (Druce) Druce *Scottish Small-reed*]

hp 7

On the site of a drained lake. A Red Data Book species known from a single site in Britain.

Recorded from the north-east corner of Caithness.

[Calamagrostis stricta (Timm) Koeler *Narrow Small-reed*]

hp 7

On the site of a drained lake. Another Red Data Book species (see above) known from a few sites in Britain.

Recorded from the north-east corner of Caithness.

[**X** *Calammophila baltica* (Flugge ex Schrad.) *Purple Marram*] hp 7

Recorded from sand dunes at one site near the coast of West Sutherland.

Ammophila arenaria (L.) Link *Marram* hp 7
Arundo arenaria L.

Dominant on mobile sand dunes on the coast.

NC80 NC90 NC91 ND01 NH68 NH78 NH88 NH89

Crackaig Links	NC961098	sand dunes	11/07/2010
Glaslochan Links N Brora	NC915059	sand dunes	11/07/2010
Glaslochan Links N Brora	NC915062	blow-out	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH801958	<i>Cladonia</i> heath	11/07/2010
Coul Links	NH805946	dune slacks	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Wester Lonemore	NH758877	coastal heath	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Carnegie Golf Course W	NH726871	links	10/05/2011
Carnegie Golf Course	NH739871	links	10/05/2011
Cuthill Links	NH745875	links	10/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Littleferry Dunes	NH807957	sand dunes	08/05/2011
Royal Dornoch Golf Course	NH812915	links	14/05/2011
S Embo links	NH815920	links	14/05/2011
Embo Caravan Park	NH818925	caravan park	09/05/2011
North of Scotland Kart Club	NH819976	links	14/05/2011
Embo Pier (derelict)	NH820921	sand dunes	09/05/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
back of dunes Brora	NC909036	sand dunes	09/09/2012
Dornoch Dunes N	NH805893	sand dunes	20/05/2012
Royal Dornoch Golf Club	NH803893	sand dunes	20/05/2012
etc.			

NVC: SD 1-7, 9-12, 15-19; SM 24; OV 27

[**Lagurus ovatus** L. *Hare's-tail*] ● th 6

This is a relatively popular garden plant, and self-seeds in flower beds. Plants seen on waste ground in towns are more likely to be garden escapes than grain-aliens or bird-seed outcasts.

Recorded from the Moray coast

Apera spica-venti (L.) P. Beauv. *Loose Silky-bent* ○ th 6
Agrostis spica-venti L.

An elegant, tall, annual grass weed of dry, sandy arable land. A garden escape or casual, rarely established at any one site for more than a few years. Very local and rare. Not seen for many years.

NH69

[Polypogon monspeliensis (L.) Desf. *Annual Beard-grass*] ● th 6
Alopecurus monspeliensis L.
Polypogon paniceus (L.) Lagasca

There are many more modern records of this grass than for most of the casual wool-aliens and bird-seed casuals, because this species is cultivated in gardens, and most of the records are probably of garden escapes. Also a contaminant of pheasant food. Unmistakable with its dense but delicate, silky greenish-white flower heads.

Recorded from the Moray coast

Polypogon viridis (Gouan) Breistr. *Water Bent* ● h 6
Polypogon semiverticillatus (Forssk.) Hyl.
Agrostis semiverticillata (Forssk.) C. Chr.

Easily recognised by its awnless glumes, covered all over with short pricklets. A rare casual of dunes, waste ground and pavements.

Dornoch Common Good NH806879 sand dunes 13/07/2010

Alopecurus pratensis L. *Meadow Foxtail* hp 4

Meadows, pastures and roadsides preferring rich alluvial soil. Widespread and common in the lowlands.

NC31 NC40 NC50 NC51 NC60 NC70 NC71 NC73 NC80 NC81 NC82 NC90 ND01 NH68 NH69
 NH78 NH79 NH89

Tuiteam	NC436013	hamlet	12/07/2010
Drumlian Road Bonar Bridge	NH606924	council houses	12/07/2010
Dunrobin Castle	NC849005	coastal grassland	11/07/2010
Rosehall Church	NC485012	churchyard	10/05/2011
Achnairn Shinness	NC555128	hamlet	13/05/2011
Rhian Breck	NC599048	hamlet	13/05/2011
Muie	NC669044	hamlet	13/05/2011
Blarich	NC695041	stream	13/05/2011
Macdonald Place Pittentrail	NC722022	council houses	10/05/2011
Ascoile Glen Brora	NC824107	stream	12/05/2011

Clynekirkton ruins	NC894060	churchyard	12/05/2011
Carnegie Wodland	NH732892	parkland	09/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Skibo Castle S wall	NH735891	gardens	10/05/2011
Skibo Castle S aspect	NH736890	gardens	09/05/2011
Track to Dornoch	NH804906	waste ground	14/05/2011
Achentoul	NC879332	inbye	19/06/2011
Achneluachrach	NC679098	farmstead	22/06/2011
Inchomnie	NC748062	hamlet	22/06/2011
Drumlich	NH608931	ruined croft	09/07/2011
Tulloch	NH613925	ditch	09/07/2011
Burnside	NH609926	lane	09/07/2011
Mound Rock	NH770980	grassland	11/07/2011
Torboll Farm S	NH750980	grassland	11/07/2011
Torboll Farm N	NH750990	grassland	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
Cassley Drive Rosehall	NC470021	bungalows	08/09/2012
Raemore/Gruids Woods	NC558035	roadside	19/05/2012
Cassley Drive Rosehall	NC470022	council houses	19/05/2012
Birch Cottage Rogart	NC734029	hamlet	18/05/2012
Westgarty Lodge Culgower	NC987124	woodland	17/05/2012
Dunrobin Castle	NC851008	parkland	17/05/2012
Manse Road Lairg	NC582069	council houses	16/05/2012
Crofters' Memorial	ND013154	roadside	05/05/2013
Crofters' Memorial	ND013153	ditch	01/07/2013
Sciberscross Lodge	NC775100	parkland	10/07/2013
Linside Strath Oykel	NH547991	hamlet	12/05/2015
Lairg	NC581068	council houses	10/05/2015
West Langwell	NC698088	hamlet	13/06/2015
High Croft Hilton of Embo	NH805915	hamlet	11/06/2015
Muie	NC669044	hamlet	12/06/2015
Kinbrace	NC862317	hamlet	16/06/2015
West Langwell	NC689093	roadside	13/06/2015
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Academy Street Brora	NC903044	bungalows	13/06/2015
Borrobol Lodge (built 1900)	NC870264	parkland	15/06/2015
Achnaluachrach	NC679098	hamlet	13/06/2015
Marrel	ND016173	hamlet	14/06/2015
etc.			

NVC: MG 1,4-7,9,10,13; S 5

Alopecurus geniculatus L. *Marsh Foxtail*

hp 6

Wet places, margins of ponds, damp pastures and ditches. Common and generally distributed in the valleys. The lemma awn is exerted from the glumes by at least 1mm, and the anthers are yellow or purple; these features distinguish it from *A. aequalis*.

NC30 NC31 NC40 NC42 NC50 NC51 NC60 NC70 NC73 NC74 NC80 NC82 NC84 NC90 NC91
NC92 ND01 NH59 NH69 NH78 NH79 NH89

Tuiteam	NC436013	hamlet	12/07/2010
Leathad nan Toll	NH696959	moorland	13/07/2010
Saw Mill Golspie	NC840011	pond	09/05/2011
Craigton	NH627961	farmstead	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Halmadarie	NC696312	inbye	20/06/2011
Achneluachrach	NC679098	farmstead	22/06/2011
Drumlich	NH608931	ruined croft	09/07/2011
Shinness Lodge	NC539141	estate	11/07/2011
Mound Rock	NH770980	wet grassland	11/07/2011
Torboll Farm S	NH750980	wet grassland	11/07/2011
Torboll Farm N	NH750990	wet grassland	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Opposite Achnagart	NH540980	wet grassland	12/07/2011
R Oykel opposite Inveroykel	NC463013	wet meadow	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Loch Airighe Mhor	NC690020	wet grassland	16/07/2011
Embo House	NH803920	arable	04/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Kildonan Station Cottage	NC901216	disturbed ground	17/06/2015

NVC: MG 6,7,10,13; OV 21,28-31,35; S 19,22,23

[*Alopecurus aequalis* Sobol. *Orange Foxtail*]
Alopecurus fulvus Smith

th 5

Mud at the margins of shallow ponds, gravel pits and reservoirs. Fluctuating greatly in abundance from year to year. Told from *A. geniculatus* by its orange (not purple) anthers and lemmas un-awned or awns not exerted by more than 0.5mm. It prefers wetter places than *A. geniculatus*. Very local and rare.

Recorded from the Moray coast

[*Alopecurus magellanicus* Lam. *Alpine Foxtail*]

th 6

Mountain springs and flushes. Very local and rare.

Recorded from Easter Ross.

Alopecurus myosuroides* Huds. *Black-grass

th 6

Cultivated fields, roadsides. A serious weed of cereal crops in the south but a rare casual in northern Scotland. Our only record to date comes from a failed green roofing project on the (then) newly completed Fiag Lodge; presumably introduced unintentionally with the seed mixture used there.

Fiag Lodge green roof NC454281 bare ground 26/06/2014

NVC: OV 1,8,13,15

Phleum pratense L. *Timothy*

hp 7

Meadows, pastures, reseeded 'improved' grasslands, roadsides. Sown as a grass crop, then producing enormous, yellow-green plants with huge spikes. The commercial cultivars occur as casuals in gateways and lane sides where grass seed is spilled, and occur occasionally as volunteer weeds of succeeding crops, where their enormous tussocks are extremely conspicuous. It is called Timothy after Timothy Hanson who introduced the grass to the United States in about 1720. Replaced in infertile grasslands on sandy soils by the much smaller, blue-green *P. bertolonii*. Common in the lowlands.

NC30 NC40 NC42 NC50 NC70 NC74 NC80 NC81 NC90 NC91 ND01 NH59 NH69 NH78 NH88 NH89

Loch Migdale N shore	NH632916	loch side	10/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Rosehall	NC470021	village	12/07/2010
Birichen	NH765923	roadside	09/07/2011
Drumliah	NH608931	ruined croft	09/07/2011
Burnside	NH609926	lane	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Opposite Achnagart	NH540980	composite	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
R Oykel above Tuiteam	NC433008	riverbank	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Sputie Burn Doll	NC884026	fallow	10/09/2012
Biblical Gardens Golspie	NC837001	garden	05/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013

NVC: CG 2,3; M 22,27; MG 1,4-7,9,10; OV 21,24,26,33; U 1

Phleum bertolonii DC. *Smaller Cat's-tail*

hp 7

Phleum nodosum auct., non L.

Phleum pratense L. subsp. *serotinum* (Jordan) Berher

Phleum pratense L. subsp. *bertolonii* (DC.) Bornm.

Phleum hubbardii D. Kováts

Phleum pratense L. subsp. *hubbardii* (D. Kováts) Soó

Dry, infertile, unimproved grasslands where it is much commoner than *P. pratense*. It is easy to tell from *P. pratense* because of its small size, pale blue-green foliage and striking white anthers. However, detailed measurement is necessary to confirm identification: the spikelets are 2-3.5mm including the awns (not 4-5.5mm), the panicle is 3-6mm wide (rather than 6-10mm), and the ligule is usually acute (rather than obtuse). Under-recorded.

Strathstevan NC885020 12/07/1983 BSBI

NC30 NC70 NC74 NC80 NC90 NC91 ND01 NH59 NH78 NH89

Crackaig Links	NC960100	coastal grassland	11/07/2010
Glaslochan Links N Brora	NC912060	coastal grassland	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Strathsteven Cottage	NC879013	coastal grassland	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Crackaig Links	NC958097	sand dunes	23/06/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Torboll Farm S	NH750980	grassland	11/07/2011
Dunrobin Beach Walk	NC842002	coastal grassland	06/07/2013
A389 Braemore	NC543026	roadside	24/06/2014
Achinchanter Dornoch	NH804909	waste ground	29/06/2014

NVC: CG 2-4; MG 1,5,6,9; OV 21,23

[Phleum alpinum L. *Alpine Cat's-tail*]

hp 7

Grassy, rocky or mossy wet places on mountains. Local and rare.

Recorded from Easternness and Easter Ross.

[Phleum arenarium L. *Sand Cat's-tail*]

th 6

Sand dunes. Very local and rare.

Recorded from Easternness and the Moray coast

Glyceria maxima (Hartm.) Holmb. *Reed Sweet-grass*

hel 7

Panicularia aquatica Kuntze

Molinia maxima Hartman

Sides of streams. Cambusmore. Very local and rare.

NH79

NVC: M 27; OV 26,32; S 4,5,13,16,23,26,28; W 5

Glyceria fluitans (L.) R. Br. *Floating Sweet-grass*

hel 5

Panicularia fluitans Kuntze

Festuca fluitans L.

Often forming a floating mat on the margins of rivers, canals, brooks, ditches, swamps and ponds; frequent and widely distributed in a wide range of wet habitats. Lemmas large (more than 5mm). Widespread and locally common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC50 NC51 NC52 NC60 NC62 NC63 NC70 NC71
NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68 NH69
NH78 NH79 NH89

Glaslochan Links N Brora	NC912060	stream	11/07/2010
Culmaily Burn Balblair	NH812978	stream	11/07/2010
Ravens Rock Gorge	NC498011	woodland	12/07/2010
Tomich	NC610049	hamlet	13/05/2011
Craggiemore birch wood	NC735085	woodland	12/05/2011
Saw Mill Golspie	NC840011	pond	09/05/2011
Brora Golf Course	NC915058	links	12/05/2011
Overskibo woods	NH727899	pine plantation	14/05/2011
The Alders The Mound	NH759985	woodland	13/05/2011
Craigton	NH627961	farmstead	18/06/2011
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
Rimsdale Burn	NC739398	stream	22/06/2011
Tulloch	NH613925	ditch	09/07/2011
Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Riverbank E of Invercassley	NC466011	riverbank	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
R Oykel opposite Inveroykel	NC467011	riverbank	12/07/2011
Morvich meadows	NC745004	wet grassland	13/07/2011
Loch Feur	NC370310	wet heath	13/07/2011
Dornoch Links W	NH780880	composite	14/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Ben Griam Beg E side	NC850410	wet heath	15/07/2011
Ben Griam Beg	NC850400	wet heath	15/07/2011
Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
East Lodge Skibo Castle	NH749890	lane	04/07/2013
R Evelix at Cyderhall Farm	NH754889	riverbank	04/07/2013
Dornoch Lochans Davochfin	NH777889	lochans	04/07/2013
Embo Muir	NH800925	lane	04/07/2013
Embo Muir	NH802934	grassland	04/07/2013
Loch Buidhe	NH657982	stony shore	09/07/2013
Ospisdale	NH713898	roadside	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
etc.			

NVC: A 3,8,9,10,11,15,19,20,21,24; MG 7,9,10,13; OV 29,31; S 4,8,12,13,14,16,19,22,23; W 1

[*Glyceria x pedicellata* F. Towns. *Hybrid Sweet-grass* = *G. fluitans x G. notata*]

Often forming large patches, even in the absence of one or both of the parents. Told from *G. fluitans* by the smaller lemmas (5-5.5mm rather than 5.5-6.5mm) and the anthers remaining indehiscent (as befits a sterile hybrid).

Recorded from Easternness and the Moray coast

Glyceria declinata Bréb. *Small Sweet-grass*
Glyceria plicata (Fries) Fries subsp. *declinata* (Bréb.) Weeda

hel 6

Glyceria fluitans (L.) R. Br. subsp. *declinata* (Bréb.) O. Bolòs, Massales and Vigo
Glyceria notata Chevall. subsp. *declinata* (Bréb.) Weeda

A weed of damp arable fields and on the margins of muddy ponds. Lemmas small (less than 5mm), distinctly 3-toothed at apex, exceeded by 2 sharply pointed apical teeth of palea. Local and uncommon.

Portgower 15/07/1958 M. McC. Webster

NC40 NC72 NC91 ND01

Embo House NH803920 arable 04/07/2013

NVC: A 8; MG 13; OV 32

Glyceria notata Chevall. *Plicate Sweet-grass* hel 5
Panicularia plicata
Glyceria plicata (Fries) Fries

Ditches, marshes and the margins of ponds and slow streams, often growing in water or on nutrient-rich soils. Much less common than *G. fluitans*. Lemmas small (less than 5mm), not toothed, not exceeded by the 2 very short apical teeth of the palea. Very local and rare. No recent records.

ND01 NH78

NVC: A 8,20; MG 13; S 13

Melica uniflora Retz. *Wood Melick* hp 5

Old woods in the lowlands. Often an indicator of a woodland with a superior flora. Cambusmore and Golspie. Local and rare.

The Mound 15/07/1957 M. McC. Webster

NC40 NC41 NC80 NH79

NVC: W 8-10, 12, 14

Melica nutans L. *Mountain Melick* hp 5



Melica nutans ruhr-uni-bochum.de

On rocks in woods on base rich rocks. Occasional.

NC30 NC31 NC40 NC41 NC50 NC71 NC80 NC91 NC92 NH49 NH59 NH69 NH79

Allt a' Chnoic Ghlais	NC380181	ravine	10/07/1998	Gordon Rothero
Glencassley Castle	NC440078	woodland	06/07/1999	Gordon Rothero
Dalphaid Glen Cassley	NC401146	woodland	07/07/1999	Gordon Rothero
Tutim Burn	NC435019	ravine	07/07/1999	Gordon Rothero
Kyloag Migdale	NH662909	woodland	07/05/2011	
Linsidmore Wood	NH530990	woodland	12/07/2011	
Tutim Burn	NC436017	rocky stream	19/05/2012	
Allt a'Chonic Ghlais	NC379179	waterfalls	03/07/2013	
Dubh Choille Glen Cassley	NC379180	rocky stream	16/05/2015	

NVC: W 8

[Bromus arvensis L. Field Brome]

• th 6

Casual weed of grass or arable fields. Local and rare.

Recorded from the Moray coast.

Bromus commutatus Schrad. *Meadow Brome*

th 6

Bromus pratensis Ehrh. ex Hoffm., non Lam.

Bromus racemosus L. subsp. commutatus (Schrader) Syme

Rich, damp meadows Long panicle branches, big spikelets, hairy lower stems and long awns give the plant a distinctive jizz. Hard to distinguish from *B. racemosus* without careful measurement of lemma, anther and lowest rhachilla segment lengths. Lemmas 8-11mm, anthers mostly 1-2mm, and the segments of the lowest rhachilla are longer (1.3-1.7mm rather than 0.7-1mm). Very local and rare at Bonar Bridge and Golspie.

NC80

Bromus racemosus L. *Smooth Brome*

th 6 †

Meadows and pastures. Told from *B. commutatus* by its smaller lemmas (6.5-8mm), and bigger anthers (mostly 1.5-3mm), and its shorter lowest rhachilla segments (0.7-1mm). Always very local and rare. No recent records.

NH59

Bromus hordeaceus L.

th 5

Bromus hordeaceus subsp. **hordeaceus** *Common Soft-brome*

Bromus mollis L.

Meadows, pastures, waysides, arable land, waste ground and fallow fields. Occasional throughout the lowlands.

NC30 NC50 NC60 NC70 NC74 NC80 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH69
NH78 NH79 NH89

Camore Wood	NH771894	gravel pit	11/07/2010
Ben Bhraggie Hotel Golspie	NC838002	waste ground	09/05/2011
N Brora	NC904051	bungalows	12/05/2011
Dalchalm	NC909056	village	12/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Spinningdale	NH675897	waste ground	18/06/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Opposite Achnagart	NH540980	grassland	12/07/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
Hilton of Embo	NH804915	hamlet	04/07/2013
Craggie Water	NC913192	rocky stream	27/06/2014
Macdonald Place Pittentrail	NC721022	council houses	12/06/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015

Academy Street Brora NC903044 bungalows 13/06/2015

NVC: MG 1,4-7,13; OV 22-25,41; U 1

[Bromus hordeaceus subsp. longipedicellatus] th 5

Common and widely distributed on waste ground and roadsides. An occasional weed of cereal fields. Told from subsp. *hordeaceus* by its large anthers (up to 2.3mm) and long pedicels (i.e. longer than the spikelets they support). Much earlier into flower (1st week in May).

[Bromus hordeaceus subsp. thominei (Hardouin) Braun-Blanq. Sand Soft-brome]
Bromus thominei Hardouin

A small coastal plant, much over-recorded for *B. x pseudothominei*. Told from it by size (culms up to 8cm rather than more than 10cm) and short caryopses (less than the palea rather than equal to it).

[Bromus x pseudothominei P.M. Sm. Lesser Soft-brome = B. hordeaceus x B. lepidus]
Bromus x thominei sensu Tutin et auct., non Hardouin • th 6
Bromus hordeaceus L. subsp. pseudothominei (P.M. Smith) H. Scholz

Often found without either parent nearby, and under-recorded.

Bromus lepidus Holmb. *Slender Soft-brome* • th 6
Bromus gracilis Krosche, non Leysser and Weigel
Bromus britannicus I.A. Williams

Roadsides, waste ground and grassland; occasional but always in man-made habitats. The lemmas are very small (less than 6.5mm) compared with *B. racemosus* and *B. commutatus*, and the caryopsis is longer than the palea. The lemmas are glabrous with a straight awn (2-5.5mm). Told from *B. hordeaceus* ssp. *hordeaceus* by its much smaller lemmas (5.5-6.5mm not 8-11mm). These records are all from before 1970 and they may be errors. Requires confirmation.

NC50 NC60 NC70 NC71 NC80 NC84 NC90 NC91 NC92 ND01 NH69 NH79 NH89

[Bromus secalinus L. Rye Brome] o th 6

A rare casual in cornfields and waste places; probably decreasing. As in *B. pseudosecalinus*, the rhachilla is revealed between the florets, but told from that species by its much larger spikelets (12-20mm rather than 8-12mm). Very rare.

Recorded from the Moray coast

[Anisantha diandra (Roth) Tutin ex Tzvelev Great Brome] • th 5
Bromus diandrus Roth
Anisantha gussonei (Parl.) Nevski

A beautiful, statuesque grass up to 1m tall, with big lemmas (20-36mm), long awns (25-60mm) and obviously hairy panicle branches. Told from *A. rigida* by its open, lax (not dense) panicle, and spreading (not erect) panicle branches. A grain and bird-seed alien on sandy arable land, field corners and disturbed ground. Very rare.

Recorded from Easter Ross, Easternness and the Moray coast

Anisantha sterilis (L.) Nevski *Barren Brome* th 5
 Bromus sterilis L.
 Zerna sterilis (L.) Panzer

Waysides, hedge bottoms, wall-tops, waste land and cultivated ground. Dunrobin. Local and uncommon.

Helmsdale 15/07/1968 J. Anthony

ND01 NH78 NH89

Dunrobin Street Helmsdale	ND031152	stonework	05/05/2013
Station Terrace Brora	NC906040	terrace	07/05/2013
Main Street Brora	NC903039	street	07/05/2013
Loth Station Cottage	NC957100	hamlet	18/06/2015

NVC: MG 1; OV 1,9,10,13,16,19,21,22,23,25,41; U 1; W 12,21,24

[Anisantha madritensis (L.) Nevski *Compact Brome*] ● th 4
 Bromus madritensis L.

A beautiful brome, with softly hairy leaves and a compact upright inflorescence. Typically a wool- or grain-alien. Very rare.

Recorded from the Moray coast

[Anisantha rubens (L.) Nevski *Foxtail Brome*] ● th 5

A wool or grain alien. Very rare.

Recorded from the Moray coast

Bromopsis ramosa (Huds.) Holub *Hairy-brome* hp 7
 Bromus ramosus Hudson
 Zerna ramosa (Hudson) Lindman

Woods, copses, hedges and shady places. Very local and rare.

Big Burn Golspie NC840006 15/07/1975 J.E. Kirby

NC80

River Oykel at Linsidmore Wood	NH498998	riverbank	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Loth Burn waterfalls	NC945107	woodland	08/05/2011
Big Burn Bridge Golspie	NC840005	stonework	17/05/2012
Road bridge Golspie Big Burn	NC840005	woodland	10/05/2015

NVC: W 8, 9, 10, 12, 14

- [Bromopsis benekenii** (Lange) Holub *Lesser Hairy-brome*] hp 7
 Schedonorus benekenii Lange
 Bromus benekenii (Lange) Trimen
 Zerna benekenii (Lange) Lindman
 Zerna ramosa (Hudson) Lindman subsp. benekenii (Lange) Tzvelev
 Bromopsis ramosa (Hudson) Holub subsp. benekenii (Lange) Tzvelev

A scarce plant in Britain, confined to dry beech woods on shallow soils. Hard to separate from *B. ramosa*: the lowest panicle node has > 2 branches (2 in *B. ramosa*) and the spikelet scale is glabrous (pubescent in *B. ramosa*), with the whole panicle swept to one side (pendent in *B. ramosa*). A useful field character is that the sheath is almost hairless below the ligule (long-hairy in *B. ramosa*). Very rare.

Recorded from the Moray coast

- [Bromopsis erecta** (Huds.) Fourr. *Upright Brome*] hs 6
 Bromus erectus Hudson
 Zerna erecta (Hudson) Gray

Very easy to identify from the long, isolated hairs, like eyelashes, on the leaf margins, which distinguish the species from other larger grasses of chalk grassland like *Brachypodium pinnatum*. "The anthers, which are at first bright yellow, change to reddish purple; the grass is very handsome when the flowers are fully expanded" (Druce). Very rare.

Recorded from the Moray coast

- [Bromopsis inermis** (Leyss.) Holub *Hungarian Brome*] • h 6
 Bromus inermis Leysser
 Zerna inermis (Leysser) Lindman

Casual seed contaminant on railway banks and waste places. Like *B. erecta* but with long rhizomes (and hence not densely tufted), and shorter awns (0-3mm rather than 3-8mm). Very rare.

Recorded from the Moray coast

- [Ceratochloa carinata** (Hook. & Arn.) Tutin *California Brome*] • hp 6
 Bromus carinatus Hook. & Arn.
 Bromus marginatus auct., non Nees ex Steudel

Grassy roadsides, river banks, waste ground and rubbish tips. The lemmas have awns 6-10mm long (4-6mm in *C. marginata*) with 7-9 veins (9-11 veins and awnless (or short-awned; <4mm) in *C. cathartica*).

Recorded from the Moray coast

- [Ceratochloa cathartica** (Vahl) Herter *Rescue Brome*] • hp 6
 Bromus catharticus M. Vahl
 Bromus unioloides (Willd.) Kunth
 Bromus willdenowii Kunth

Rare casual on rubbish tips and waste ground. Now more frequent on roadsides and field margins. The lemmas are awnless or short-awned (< 3mm) and have 9-11 (not 7-9) veins.

Recorded from the Moray coast

Brachypodium sylvaticum (Huds.) P. Beauv. *False Brome* hs 7

Festuca sylvatica Hudson

Brevipodium sylvaticum (Hudson) Á. Löve and D. Löve

Shady places, hedge-banks, woods, rough pastures and waste ground. Locally frequent in the lowlands.

The Mound	NH770980	15/07/1962	John Anthony
Strathsteven		15/07/1983	BSBI

NC40 NC60 NC63 NC70 NC71 NC74 NC80 NC81 NC90 NC91 ND01 NH59 NH69 NH78 NH79

Ledmore Wood	NH664893	ancient woodland	12/07/2010
Marians Rock	NC747012	cliff	13/05/2011
Tormore Glen Brora	NC789106	stream	12/05/2011
East Clyne	NC893062	stream	12/05/2011
Auchintoul Wood Altass	NH503993	woodland	10/05/2011
Migdale Rock	NH650907	rocks	07/05/2011
Kyloag Migdale	NH662909	woodland	07/05/2011
Evelix Bridge	NH767904	riverbank	10/05/2011
Kintradwell Links	NC933085	sand dunes	23/06/2011
Mound Rock	NH770980	woodland	11/07/2011
Torboll Farm S	NH750980	woodland	11/07/2011
Linsidemore Wood	NH530990	woodland	12/07/2011
Marian's Rock Strath Fleet	NC747012	crags	12/07/2011
Rhemusaig Rogart	NC731020	wooded stream	18/05/2012
Strath Helmsdale	ND022171	birch wood	05/05/2013
Creich coastal woodland	NH627897	oak/birch wood	08/05/2013
Tormore Strath Brora	NC789105	wooded stream	10/07/2013
Kyloag	NH660911	hamlet	08/05/2015

NVC: CG 2,3; MG 1; OV 27; W 8,10,12-14,21-24

Elymus caninus (L.) L. *Bearded Couch* hp 7

Triticum caninum L.

Agropyron caninum (L.) P. Beauv.

Roegneria canina (L.) Nevski

Damp woods, plantations, shady lanes and hedges. Local and rare.

Golspie	15/07/1962	M. McC. Webster
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NH78 NH79 NH89

Auchintoul Wood Altass	NH503993	woodland	12/07/2011 A. Hannah
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NVC: not recorded.

Elymus caninus var. **donianus** (F.B. White) Melderis

hp 7

Mountain rock ledges and crevices. Told by its shorter awns (0-3mm rather than 7-18mm). Very local and rare. Not seen recently.

Cambusmore

15/07/1962

M. McC. Webster

NH79

Elytrigia repens (L.) Desv. ex Nevski *Common Couch*

hp 6

Triticum repens L.

Agropyron repens (L.) P. Beauv.

Elymus repens (L.) Gould

Waste ground, meadows, arable fields, field borders, hedges, The leaves are flat (not rolled) and the margins of the sheath are completely hairless (not ciliate); the area surrounding the ligule, however, is hairy. Frequent in the lowlands.

NC50 NC51 NC60 NC70 NC73 NC80 NC82 NC83 NC84 NC90 NC91 NC92 ND01 NH59 NH68
NH69 NH78 NH79 NH89

Lairg Loch Side	NC580069	suburbia	10/04/2010
Clashmore	NH747895	village	10/07/2010
Swordale Bonar Bridge	NH611915	council houses	10/07/2010
Newton Point	NH711877	coastal grassland	10/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Littleferry Loch Fleet NNR	NH775960	salt marsh	11/07/2010
Camore Wood	NH771894	gravel pit	11/07/2010
Rosehall	NC470021	village	12/07/2010
Ledmore Wood	NH664893	ancient woodland	12/07/2010
Camore	NH778903	council houses	12/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Rear of Deans Park Dornoch	NH792895	waste ground	18/06/2011
The Pier Cafe Lairg	NC580067	waste ground	22/06/2011
Loch Fleet	NH780960	salt marsh	23/06/2011
Embo	NH817928	village	23/06/2011
Braefoot Portgower	ND013136	coastal grassland	23/06/2011
Cuthill Links	NH748863	shingle	24/06/2011
Matheson Road Bonar Bridge	NH614916	bungalows	09/07/2011
Migdale Hospital (derelict)	NH615915	hospital	09/07/2011
Embo Street Hilton	NH800913	hamlet	10/07/2011
Kilmaree	NH799982	hamlet	10/07/2011
Murray Place Pittentrail	NC727017	bungalows	10/07/2011
Academy Street Brora	NC901043	cottages	13/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	grassland	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Struie Road Dornoch	NH800895	suburbia	11/09/2012
Sutherland Street Helmsdale	ND027154	waste ground	09/09/2012

Strathnaver Street Helmsdale	ND028154	waste ground	09/09/2012
Brora S beach	NC909034	shingle beach	09/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
Stafford Terrace Brora	NC904042	bungalows	07/09/2012
Centre Street Golspie	NH831999	mews	07/09/2012
Back Road Golspie	NC829000	council houses	07/09/2012
sea front Golspie	NH831998	disturbed ground	07/09/2012
sea front Golspie	NH832998	shingle beach	07/09/2012
Tulloch Road Bonar Bridge	NH608921	council houses	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Embo House	NH803920	arable	04/07/2013
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Golspie Sea Front N end	NH833998	terrace	06/07/2013
Stafford Road Dornoch	NH801899	council houses	10/07/2013
Flood Bay	NH712882	coastal grassland	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Dornoch Gravel Pit (active)	NH785902	gravel pit	12/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
Newton Point	NH713877	shingle beach	24/06/2014
Dornoch Common Good	NH804881	salt marsh	29/06/2014
Achinchanter Dornoch	NH804909	waste ground	29/06/2014
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
coast path N of Helmsdale	ND033151	coastal grassland	17/06/2015
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015

NVC: M 27; MG 1,7; OV 3,4,8-10,12-16,18,19,21,22,25-29,33; S 4,18,23,26,28; W 21,24

Elytrigia atherica (Link) Kerguelen *Sea Couch* hs 6
Elymus athericus

A glaucous grass growing on the top of shingle beaches. Very hard to tell from maritime forms of *E. repens*, but the presence of sparse hairs on the free margin of the sheath, just below the ligule, is distinctive. A southern, mostly English species, only recently recorded from Sutherland.

Newton Point	NH711876	shingle beach	11/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013

Elytrigia x laxa (Fr.) Kerguelen = **E. juncea x E. repens**

Dornoch Links W	NH780880	grassland	14/07/2011 Pankhurst, Robinson, Crossley & Borradaile
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Also recorded from Easter Ross, Easternness and the Moray coast

Elytrigia juncea (L.) Nevski *Sand Couch* hs 6
Agropyron junceum (L.) P. Beauv.
Elymus farctus (Viv.) Runemark ex Melderis

Sand dunes. Locally frequent as a pioneer on wind-blown sand by the sea.

Dornoch 15/07/1960 John Anthony

NC80 NC90 NC91 ND01 NH78 NH88 NH89

Glaslochan Links N Brora	NC915059	sand dunes	11/07/2010
Glaslochan Links N Brora	NC915062	blow-out	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Carnegie Golf Course W	NH727873	salt marsh	10/05/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	salt marsh	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Common Good	NH804881	salt marsh	29/06/2014
Dornoch Common Good	NH807875	fore dune	11/06/2015
Dornoch Common Good	NH807885	fore dune	11/06/2015

NVC: SM 22; SD 1, 2, 4-10, 18

Leymus arenarius (L.) Hochst. *Lyme-grass*
Elymus arenarius L.

hp 7

On the seaward front of mobile sand dunes, at the top of shingle beaches, and as occasional 'islands' in salt marsh. Locally frequent by the sea, typically growing with *Honckenya peploides*, *Atriplex glabriuscula*, *Elytrigia juncea* and *Ammophila arenaria*.

NC80 NC90 NC91 ND01 NH78 NH79 NH88 NH89

Royal Dornoch Golf Course	NH804896	sand dunes	22/09/1996
Carnegie Golf Course	NH731871	shingle beach	10/07/2010
Crackaig Links	NC961098	sand dunes	11/07/2010
Glaslochan Links N Brora	NC915059	sand dunes	11/07/2010
Brora Golf Course	NC913043	sand dunes	11/07/2010
Dunrobin Castle beach	NC849004	shingle beach	11/07/2010
Golspie Sea Wall	NH827995	sea wall	11/07/2010
Golspie Links	NH821979	sand dunes	11/07/2010
Littleferry Loch Fleet NNR	NH811959	sand dunes	11/07/2010
Embo Links	NH817935	sand dunes	11/07/2010
Wester Lonemore	NH758877	shingle beach	11/07/2010
B9168 in Dornoch	NH792900	dry stone wall	11/07/2010
Dornoch Common Good	NH801879	salt marsh	13/07/2010
Dornoch Common Good	NH806879	sand dunes	13/07/2010
Brora Harbour	NC909037	village	12/05/2011
Carnegie Golf Course W	NH726871	links	10/05/2011
Meikle Ferry Slipway	NH728869	sand dunes	10/05/2011
Dornoch Common Good	NH795882	sand dunes	09/05/2011
Royal Dornoch Golf Course	NH807901	links	14/05/2011
Littleferry Dunes	NH807957	sand dunes	08/05/2011
Royal Dornoch Golf Course	NH811911	Juniper dunes	14/05/2011
S Embo links	NH815920	links	14/05/2011

Embo Caravan Park	NH818925	caravan park	09/05/2011
Embo Pier (derelict)	NH820921	sand dunes	09/05/2011
Golspie	NH832998	sea front	08/05/2011
Dornoch Common Good	NH800878	salt marsh	19/06/2011
Dornoch Dunes	NH806876	sand dunes	19/06/2011
Helmsdale Harbour	ND029151	sea wall	19/06/2011
Loch Fleet	NH780960	salt marsh	23/06/2011
Coul Links	NH801949	sand dunes	23/06/2011
Kintradwell Links	NC933085	sand dunes	23/06/2011
Brora Golf Course	NC912041	sand dunes	23/06/2011
Dornoch Point	NH800870	sand dunes	14/07/2011
Dornoch Links E	NH790880	sand dunes	14/07/2011
Dornoch Dunes Central	NH800890	sand dunes	14/07/2011
Dornoch Links W	NH780880	sand dunes	14/07/2011
Dornoch Dunes N	NH800900	sand dunes	14/07/2011
Brora S beach	NC909034	shingle beach	09/09/2012
East Shore Street Helmsdale	ND029152	village	07/09/2012
East Shore Street Helmsdale	ND031151	shingle beach	07/09/2012
sea front Golspie	NH832998	shingle beach	07/09/2012
Dornoch Dunes N	NH805893	sand dune	20/05/2012
Dornoch Stream Saltmarsh	NH806888	salt marsh	20/05/2012
Meikle Ferry Slipway	NH728870	sand dune	16/05/2012
Littleferry Dunes	NH807957	sand dune	07/05/2013
Gatehouse Cambusmore	NH771968	hamlet	08/05/2013
Dornoch Common Good	NH806873	sand dune	30/06/2013
Dornoch Common Good	NH806875	dune slacks	30/06/2013
Dornoch Common Good	NH806873	sandy beach	30/06/2013
Coul Links	NH805953	shingle beach	04/07/2013
Dunrobin Beach Walk	NC842222	shingle beach	06/07/2013
R Helmsdale Helmsdale	ND026152	riverbank	07/07/2013
Newton Point	NH711876	shingle beach	11/07/2013
Flood Bay	NH711883	shingle beach	11/07/2013
Newton Point	NH713877	shingle beach	24/06/2014
Royal Dornoch Quarry	NH806895	crag	29/06/2014
coast path N of Helmsdale	ND040155	coastal grassland	17/06/2015
Dornoch Common Good	NH807875	high dunes	11/06/2015
Embo Dunes	NH817932	high dunes	11/06/2015
Dornoch Common Good	NH807875	fore dune	11/06/2015
Little Ferry	NH805956	hamlet	12/06/2015
coast path N of Helmsdale	ND037154	coastal grassland	17/06/2015
Dornoch Common Good	NH805885	high dunes	11/06/2015
Dornoch Common Good	NH807885	fore dune	11/06/2015

NVC: SD 2-9, 18

[*Hordeum vulgare* L. *Six-rowed Barley*]

● th 6

A rare casual grain alien, no longer grown in commercial agriculture. All 3 florets in each triplet make a grain with a long-awned lemma (not just the central floret).

Hordeum distichon L. *Two-rowed Barley*

● th 6

This is the common barley of modern agriculture, often found on waysides, farmyards and in gateways where seed is spilled. Occasional as a volunteer weed in succeeding crops. Frequent throughout the arable regions, occasional in towns and villages. Only the central of the three florets in each triplet is awned and produces a ripe seed.

Kilmaree	NH799982	hamlet	10/07/2011
Torboll Farm S	NH750980	composite	11/07/2011

Hordeum murinum L. *Wall Barley* ○ th 6
Critesion murinum (L.) Á. Löve

Waste places, roadsides, walls, especially in and about villages. Restricted to the lowlands. In Scotland this plant has the wonderful common name of “Bus Stop Grass”. It is particularly prevalent in places where dogs piss. The subspecies have not been worked out in vc. 107. Local and rare.

Helmsdale 15/07/1958 John Anthony

ND01 NH78

OV 18,22-25

[**Hordeum murinum** subsp. **murinum**] ● th 6

Recorded from Easterness and the Moray coast

[**Hordeum murinum** subsp. **glaucum** (Steudel) Tzvelev] ● th 6

It is told from subsp. *murinum* by the central floret having a stalk that shows above the glumes 0.6-1.5mm (rather than <0.6mm) and by the lemma body of the central floret being shorter than that of the lateral floret (longer in subsp. *murinum*). In subsp. *leporinum* the anthers of the central florets are about as long to half as long as in the lateral florets.

Recorded from the Moray coast

[**Hordeum pusillum** Nutt. *Little Barley*] ● th 6

A wool alien of tips and waste ground. Local and rare.

Recorded from the Moray coast

[**Hordeum jubatum** L. *Foxtail Barley*] ● hp 6

Rarely established temporarily on sown banks and waste places. Told by the fact that the rachis breaks up at maturity (this separates it from commercial barleys), and by the relatively long (> 30mm) glumes on the lateral spikelets that are awn-like all the way to the base (not distinctly widened at the base). The awn of the central lemma is also very long (>50mm).

Recorded from Easter Ross, Easterness and the Moray coast

[**Hordeum secalinum** Schreb. *Meadow Barley*] hp 6

Hordeum nodosum auct., non L.
Critesion secalinum (Schreber) Á. Löve

Recorded from Easternness.

[**Secale cereale** L. *Rye*]

• th 6

A casual from grain waste or bird seed. Seldom cultivated in vc. 107.

Recorded from the Moray coast

Triticum aestivum L. *Bread Wheat*

• th 6

Common casual on roadside dumps, farmyards and field margins, and occasionally as a volunteer weed. Locally abundant from spilled seed, on set-aside fields, and occasional on pavements and waste ground in towns.

NH78

Kirkton	NH799986	farmstead	10/07/2011
Borrobol Lodge	NC871264	estate	13/07/2011
West Shinness crofts	NC533151	hamlet	14/07/2011
Back Street Helmsdale	ND026153	alley	09/09/2012

NVC: OV 19

Danthonia decumbens (L.) DC. *Heath-grass*

hs 7

Festuca decumbens L.

Sieglingia decumbens (L.) Bernh.

Acid grassland on both peaty and sandy soils, heaths, bogs, heathy rides in conifer plantations and railway banks on acid soils. pastures. Like *Anthoxanthum odoratum*, possessed of a distinctly hairy ligule. Widespread and common.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
 NC70 NC71 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01 NH49
 NH59 NH68 NH69 NH78 NH79 NH89

Mound Rock	NH770980	composite	11/07/2011
Torboll Farm S	NH750980	composite	11/07/2011
Salmon ladder	NH740980	composite	11/07/2011
Torboll Farm NW	NH740990	composite	11/07/2011
Woodburn	NH525991	marsh	12/07/2011
Auchintoul	NH518992	riverbank	12/07/2011
Marian's Rock Strath Fleet	NC747012	crag	12/07/2011
Ach an Fhionnfhuaraidh	NC899240	grassland	13/07/2011
Steall a'Choire	NC370280	composite	13/07/2011
Ben Griam Beg	NC840400	mountain ridge	15/07/2011
Ben Griam Beg E side	NC850412	crag	15/07/2011
Ben Griam Beg	NC850410	mountain ridge	15/07/2011
Garvault Hotel	NC780380	wet heath	15/07/2011

Allt Gobhlach Dalnessie	NC630160	wet heath	16/07/2011
E of Sallachy	NC545095	composite	16/07/2011
Loch Airighe Mhor	NC680020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Loch Airighe Mhor	NC690020	composite	16/07/2011
Dall na Ceardaich	NC620160	composite	16/07/2011
Inchcape	NC690030	composite	16/07/2011
Beinn Dhorain crags	NC932154	rocks	09/09/2012
Kildonan birch wood	NC909204	birch wood	09/09/2012
Littleferry	NH810958	sand dunes	05/07/2013
Badintagairt Glen Cassley	NC424095	wet heath	28/06/2014
Col-bheinn S slope	NC879100	springs and flushes	15/05/2015

NVC: M 13, 15, 16, 24, 25; H 3-8, 10, 12, 16, 18; MG 5, 9; CG 4-6, 8-11, 13, 14; U 3-5, 20; SD 12, 14, 15; MC 9, 10; OV 41

[Cortaderia selloana (Schult. & Schult.f.) Asch. & Graebn. *Pampas-grass*] ● hp 7
Arundo selloana Schultes and Schultes f.

Persistent where planted or thrown out. This is a rare garden plant in northern Scotland (see below).

Cortaderia richardii (Endl.) Zotov *Early Pampas-grass* ● hp 7
Arundo richardii Endl.

This is the commonly self sown *Pampas-grass* in vc. 107. Told by the slightly golden or russet (not whitish) colour of its inflorescence (which is nodding rather than upright).

Burghfield Hotel Dornoch	NH796898	derelict garden	10/04/2010
Dornoch Castle Street	NH794896	suburbia	10/04/2010
Lairg Loch Side	NC580069	suburbia	10/04/2010
Bonar Bridge Lairg Road	NH609916	suburbia	10/04/2010
Golspie Main Street	NH831999	street	11/04/2010
Brora Station	NC906041	railway	11/04/2010
Brora E	NC909042	council houses	11/04/2010
Brora	NC910041	suburbia	11/07/2010
Lonemore	NH764884	hamlet	11/07/2010
Camore	NH778903	council houses	12/07/2010
N Brora	NC904051	bungalows	12/05/2011
Brora Harbour	NC909037	village	12/05/2011
N Helmsdale	ND026156	village	08/05/2011
Ferry Road Golspie	NH826997	terrace	08/05/2011
Embo	NH817928	village	23/06/2011
Brora Golf Course	NC910039	club house	23/06/2011
Braehead Terrace Portgower	ND008134	village	13/07/2011
The Crask Inn	NC523246	garden	10/09/2012
Stittenham Road Helmsdale	ND026155	walled gardens	09/09/2012
Brora Catholic Church Brora	NC906037	bungalows	09/09/2012
Golf Road Helmsdale	ND024158	bungalows	07/09/2012
Achrimsdale	NC909067	hamlet	07/09/2012
Stafford Terrace Brora	NC904042	waste ground	07/09/2012
Muirfield Drive Brora	NC906043	council houses	07/09/2012

Brora Rangers FC Brora	NC902035	bungalows	07/09/2012
Biblical Gardens Golspie	NC837001	garden	07/09/2012
Fountain Road Golspie	NC831000	suburbia	07/09/2012
Seaforth Road Golspie	NH829999	council houses	07/09/2012
Cherry Grove Bonar Bridge	NH611913	bungalows	06/09/2012
Lairg Road Bonar Bridge	NH609917	riverbank	06/09/2012
Old Shore Lairg	NC582068	council houses	06/09/2012
Davidson Terrace Lairg	NC588062	council houses	06/09/2012
Knockarthur	NC754066	hamlet	18/05/2012
Church Street Golspie	NH828997	bungalows	07/05/2013
Brora Station	NC906414	railway	07/05/2013
Lairg Road Bonar Bridge	NH609917	riverbank	08/05/2013
Camore Gardens Camore	NH777903	council houses	30/06/2013
Johnstone Crescent Brora	NC905363	council houses	01/07/2013
Hilton	NH804915	hamlet	04/07/2013
Biblical Gardens Golspie	NC837154	garden	05/07/2013
Rearquhar	NH744928	hamlet	09/07/2013
Balmarie Spinningdale	NH683896	hamlet	11/07/2013
Ospisdale House	NH713897	parkland	11/07/2013
Cambusavie	NH766964	hamlet	11/07/2013
Rowan Crescent Dornoch	NH793899	bungalows	13/07/2013
North Brora	NC909044	bungalows	19/06/2015
Hilton of Embo W	NH796913	hamlet	21/06/2015
Elizabeth Crescent Dornoch	NH804902	new housing	21/06/2015
Dalchalm	NC911059	hamlet	19/06/2015
Braambury Road Brora	NC904048	bungalows	11/05/2015
Rutherford Ter. Helmsdale	ND029154	village	09/05/2015
Ceol Mor Strath Oykel	NH557981	hamlet	12/05/2015
Brora Golf Club	NC909039	suburbia	27/06/2014
Lower Brora	NC908037	bungalows	11/05/2015
Johnstone Crescent Brora	NC905036	council houses	11/05/2015
Fountain Road Golspie	NC831001	suburbia	11/05/2015
Golspie	NC832000	village	08/05/2015
St Callan's Rogart	NC738035	hamlet	10/05/2015
Embo	NH816928	village	08/05/2015
Golf Road Brora	NC909041	suburbia	14/05/2015
Clash Breac Lairg	NC588063	new housing	12/06/2015
Crask Inn	NC523246	hamlet	13/05/2015
Park Terrace Brora	NC905040	village	13/06/2015
Fuaran Ruairidh Badninish	NH763942	hamlet	17/05/2015
West Clyde	NC905064	hamlet	14/05/2015
Station Road Golspie	NH828998	suburbia	14/06/2015
Church Street Golspie	NH829997	bungalows	16/05/2015
Golspie Biblical Garden	NC837001	botanical garden	13/06/2015
Lonemore	NH764884	hamlet	17/05/2015
Ferry Road Golspie	NH825996	bungalows	16/05/2015
Meikle Ferry	NH729870	roadside	12/05/2015

Molinia caerulea (L.) Moench *Purple Moor-grass*

Molinia varia Schrank

Aira caerulea L.

hs 6

Molinia caerulea subsp. **caerulea**

Wet heaths and bogs, marshes, wet woods and fens. Widespread and common in many habitats from sea level to the tops of the mountains.

NC30 NC31 NC32 NC33 NC40 NC41 NC42 NC43 NC50 NC51 NC52 NC60 NC61 NC62 NC63
NC70 NC71 NC72 NC73 NC74 NC80 NC81 NC82 NC83 NC84 NC90 NC91 NC92 NC93 ND01
NH59 NH68 NH69 NH78 NH79 NH89

NVC: W 1-4, 15-18; M 1-6, 9-11, 13-19, 21-27, 29, 31, 35; H 2-10, 12-15, 21; CG 9-11, 13; U
2-5, 17, 20; S 2, 4, 24; SD 15; MC 10

[Molinia caerulea subsp. **arundinacea** (Schrank) K. Richt.]

hs 6

Molinia arundinacea Schrank

Molinia caerulea (L.) Moench subsp. *altissima* (Link) Domin

Molinia caerulea (L.) Moench subsp. *litoralis* (Host) Paul

In fens and fen-scrub. Told from subsp. *caerulea* by its taller flower stems (65-160cm rather than <65cm), and panicle branches longer (> 10cm), uneven and often spreading. The sizes of the spikelets (4-7.5mm rather than 3-5.5mm) and lemmas (3.2-5.7mm rather than 3-4mm) overlap, so confirmation may require a chromosome count (90 rather than 36).

Recorded from the Moray coast

Phragmites australis (Cav.) Trin. ex Steud. *Common Reed*

hel 8

Arundo australis Cav.

Phragmites communis Trin.

Swamps, sides of rivers, ponds and streams, wet hedge-banks, marshes and fens; common and in some places dominant.

NC40 NC50 NC51 NC60 NC61 NC63 NC70 NC71 NC73 NC74 NC80 NC83 NH59 NH68 NH69
NH78 NH79 NH89

Spinningdale Bog SSSI	NH667907	valley fen	10/07/2010
Linsidemore Wood	NH498998	riverbank	12/07/2010
Opposite Carbisdale Castle	NH576958	riverbank	12/07/2010
Loch Rosail	NC717402	loch side	11/05/2011
Reidh Lochan	NC742070	loch side	12/05/2011
Meall a Bheallaich (196m)	NC883404	wet heath	11/05/2011
Overskibo woods	NH727899	pine plantation	14/05/2011
The Dump Skibo Castle	NH733889	waste ground	09/05/2011
Swimming Pool Skibo Castle	NH734888	pond	09/05/2011
Loch Evelix	NH745876	lakeside	10/05/2011
Opposite Achnagart	NH540980	water meadow	12/07/2011
Woodburn	NH525991	marsh	12/07/2011
Altass Swamp	NH504992	swamp	12/07/2011
Spinningdale Bog SSSI	NH660900	valley mire	14/07/2011
Ben Griam Beg E side	NC850400	wet heath	15/07/2011
Loch Airighe Mhor	NC680020	swamp	16/07/2011
Loch Craicail Beag	NC631006	loch	25/06/2014

NVC: M 13, 21, 22, 24, 27; OV 25, 26; S 1-6, 8, 13, 14, 18, 23, 25, 26; W 1, 5, 6, 24; SM 15,24;
SD 13-16, 18.

[*Spartina anglica* C.E. Hubb. *Common Cord-grass*] hel 5
Spartina x townsendii auct. non H. & J. Groves

Tidal mudflats. Formed naturally in about 1890 in Southampton Water as an amphidiploid of *Spartina x townsendii*. Much planted all over the world.

Recorded from Easter Ross

[*Spartina alterniflora* Loisel. *Smooth Cord-grass*] • hel 5
Spartina glabra Muhl. ex Bigelow

Var *glabra* was planted in Easter Ross in the 1920s and is still there

[*Panicum capillare* L. *Witch-grass*] • th 7

Told from *P. miliaceum* by its smaller spikelets (2-3.5mm not 4.0-5.5mm)

Recorded from Easternness and the Moray coast

[*Panicum miliaceum* L. *Common Millet*] • th 7

Waste places. A frequent casual on warm rubbish tips and an occasional contaminant of imported topsoil.

Recorded from Easternness and the Moray coast

[*Echinochloa crus-galli* (L.) P. Beauv. *Cockspur*] • th 8
Panicum crus-galli L.

A casual of rubbish tips, bird-feeders and sown fields; uncommon.

Recorded from Easternness and the Moray coast

[*Echinochloa frumentacea* Link *White Millet*] • th 8

A rare bird-seed alien, told by its fat, congested inflorescence branches, which form a single, lobed head.

Recorded from the Moray coast

[*Setaria italica* (L.) P. Beauv. *Foxtail Bristle-grass*] • th 7

Rubbish tips, an occasional casual. Bristles below each spikelet 1 to 3, spikelets disarticulating below the upper lemma, leaving both glumes and lower lemma behind.

Recorded from the Moray coast

[Setaria viridis (L.) P. Beauv. *Green Bristle-grass*]
Panicum viride L.

● th 7

The most frequent of the genus in northern Scotland. A relatively common bird-seed alien. Bristles below each spikelet 2 (1 to 3), spikelets falling whole, leaving only pedicels and bristles (beware when counting the bristles, because it is all too easy to over-count them by including bristles from neighbouring, but aborted spikelets). The rachis is hairy but the leaf blades are hairless (but the leaf sheaths are very hairy on their margins beneath the ligule).

Recorded from Easternness and the Moray coast

[Setaria pumila (Poir.) Roem. & Schult. *Yellow Bristle-grass*]

● th 7

Panicum pumilum Poiret

Setaria glauca auct., non (L.) P. Beauv.

Setaria lutescens Hubb.

Rare casual of waste places. There are numerous (6-8) golden coloured bristles below each spikelet. The ripe fruits are larger than in *S. parviflora* (3.0-3.3mm, not 2.0-2.5mm).

Recorded from the Moray coast

[Digitaria ciliaris (Retz.) Koeler *Tropical Finger-grass*]

● th 8

A rare bird-seed alien

Recorded from the Moray coast

Zea mays L. *Maize*

● th 7

An increasingly popular arable crop. Stray plants from spilled seed are found on lanes, and in gateways and farmyards throughout. The ornamental Maize cultivars 'Harlequin' which had been intended to form the centre-piece in Kew Gardens Festival of Colour beds in summer 2002 were destroyed by the resident badgers. Grown as a major arable crop and on allotments but not persistent, and very seldom self-seeding.

Muirfield Drive Brora NC906043 council houses 07/09/2012

THE END

Please send records, corrections, additions, photographs and suggestions for improvements to Mick Crawley by e-mail at

m.crawley@imperial.ac.uk

Thank you.