Romania - The Wildlife of **Transylvania**

Naturetrek Tour Report

12 - 19 June 2018







Melampyrum bihariense

Yellow Melancholy Thistle

Gladiolus imbricatus







Report & photos by Mike Crewe



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Tour participants: Mike Crewe (leader) with local guides and 14 Naturetrek clients

Summary

If you want a European tour with both quality and quantity, this is surely it! Quality came in the shape of some exceptional wildlife experiences, that included a male Wallcreeper at a nest site, fabulous views of Lesser Spotted Eagles, a wonderful evening with Brown Bears and some outstanding meals of local cuisine. Quantity came in the sheer abundance and exuberance of the mass of flowers in the hay meadows, topped off with some wonderful butterflies and an ever-present welcome from the local people.

Day 1

Tuesday 11th June

After a trouble-free flight, we were soon through formalities at Bucharest airport, collected our bags and headed out to meet up with our driver, Marius and, shortly after, our local guide, Laurenco. With bags all loaded up, we set off northward toward Zărnești and then on to the little village of Magura, deep in the Transylvanian hills.

The drive was pretty uneventful, although the odd White Stork was of interest as we travelled across the flat plains and began to climb into more wooded landscapes. A brief coffee stop, then it was onward to our destination, where an excellent dinner awaited us, before a quick briefing then time for bed.

Day 2

Wednesday 12th June

We began with a gentle 08:00 breakfast, although several of us were out for a look around beforehand and enjoying the views and the wealth of plants. Even first thing, dozens of Painted Ladies were feeding at the abundant thyme flowers and were to be a feature of the week; there had been an enormous northward migration of this species through the Middle East this spring and Romania was now hosting many of these insects as they looked for places to start the next generation. Sharp eyes had picked out up to seven Chamois living their death-defying lives on the rock face behind the hotel and these mammals were to become a regular feature of our mornings. We also found a pair of Red-backed Shrikes breeding right behind the hotel, too.

After breakfast, we headed out on the bus for a day at the local wetlands and fish ponds, beginning with the large complex of pools near Dumbrâvita. Starting at the largest lake, we were soon immersed in birds; a nice array of herons and egrets fed around the margins, while a number of first-year (ie non-breeding) Little Gulls and a handful of Black Terns gracefully picked insects off the water surface. Little Bitterns made occasional sorties across the lake, a Garganey put in a brief appearance and we wrestled with the complexities of Yellow-legged and Caspian Gull identification. Coots, Pochard and Mallards were out on the open water. Tree Sparrows flitted busily around us while at our feet there was an array of dragonflies to enjoy, the most interesting of which was the White-tailed Skimmers, which we don't get in the UK. Further on, we checked several locations as we worked our way eastward, turning up a smart, summer-plumaged Squacco Heron, a number of Black-crowned Night Herons and listened to the differences in song of the Sedge and Marsh Warblers that were singing. Some of the more interesting plants here included the subtle Grass Vetchling and the gaudy Tuberous Pea.

Simona and Elena met us with a wonderful picnic lunch in what was to become the highlight of many of our days in the field – wonderfully varied and delicious, home-cooked delights and all topped off with ample

cherries! After lunch we headed to another lake at Rotbav, which was rather different to the ponds we had been at in the morning. Here, there were more islands and marginal vegetation and the whole scene was dominated by a noisy mass of breeding Black-headed Gulls with many ginger-tinged youngsters out on the water. Several Ferruginous Ducks were a nice surprise here, while Mute Swans tried to fool us into thinking they were friendly!

Day 3

Thursday 13th June

After the wide-open expanses of the wetlands yesterday, today provided a complete contrast as we headed down the hill from the village and walked into the dramatic, limestone-walled Zarnesti Gorge. Grey wagtails showed nicely along the water course in the lower section, where the steep slopes were clothed in Common Beech and Norway Spruce. As we moved further into the gorge, the walls became closer together and were eventually vertical. We had an appointment with a little crimson one here and some of us with previous experience of this little beastie were mentally preparing ourselves for the long wait. But no, Laurenco's plan of beating the crowds paid off and we found ourselves a fabulous male Wallcreeper remarkably quickly! Wonderful views ensued as it worked its way across the rock face, eventually disappearing into what we shortly realised was clearly a nest site. It was a real treat to get such great views of this often extremely elusive bird.

Walking on, we enjoyed Mountain Green-veined Whites, Woodland Ringlets and a Duke of Burgundy, while plants included Spoon-leaved Saxifrage *en masse*, Sand Thale-cress, *Erysimum odoratum*, Perennial Honesty and Carpathian Leopardsbane among many others. On the return, a highlight for some was a Black Woodpecker that lurked overhead and called from the spruces a few times, before giving nice flight views as it headed off down the gorge. Lunch soon arrived and we enjoyed more wonderful local food, surrounded by spikes of Bird's-best Orchid.

After lunch we headed back up to the hotel for a short siesta before reconvening for a lovely downhill walk through the village and local woods. Much of the walk took us through hay meadows that were crammed with a dizzy abundance of wildflowers – all providing a very healthy diet for the local livestock. Vast drifts of white, yellow, pink and blue spread out before us as we searched through the abundant species in search of the specialities. Yellow Melancholy Thistles were just starting to open their nodding heads, stands of Fragrant Orchids dotted the slopes and we wrestled with some of the tougher members of the carrot family. In a damp gulley, Laurenco showed us Yellow-bellied Toads, while 'puddling' butterflies included a Map, Green-underside Blue and Turquoise Blue. We marvelled at the massive heads of Hungarian Clover and picked out a single Bladder Gentian in the shade of an oak tree. The woodland section was traversed rather more quickly and eventually we made it down to the bus and a more comfortable ride back up to the hotel, where the next round of beers or wine awaited us!

Day 4

Friday 14th June

Today's adventures took us northward to the reserve of Poiana Narciselor. This is an area of relatively flat land that is covered mostly with damp forest of oak and birch with an understory of Bird Cherry. On arrival, we soon heard Skylarks singing and watched Common Buzzards soaring, then we passed an interesting herd of goats and sheep with the latter showing signs of still being shorn by hand. As we entered the woodland, Golden Orioles could be heard calling and we shortly chanced across a Hawfinch feeding young which gave brief but good views

before melting away into the trees. A couple of Middle Spotted Woodpeckers showed up and we enjoyed seeing a Spotted Flycatcher, a bird that has greatly declined in the UK now.

The interesting ground flora included Swallow-wort and many examples of the endemic *Phyteuma tetramerum*, as well as *Gladiolus imbricatus*, *Bruckenthalia spiculifolia* – a heather relative – and the spectacular purple and yellow spikes of *Melampyrum bihariense*, a 'hemiparasitic' cow-wheat species. Our itinerary today had to be planned around our late afternoon highlight, so there was no special lunch from Elena and Simona today, but we still enjoyed our sandwiches from the hotel, eaten amidst the splendours of this lovely reserve. We took a casual stroll back through the woods and later headed back into town for a wonderful early dinner at a local house that took pride in cooking for visitors.

From town, we drove up into the wooded hills (past a staggering set of flowery hay meadows that we would come back to at a later date) and met up with one of the rangers whose many tasks involve looking after the local Brown Bear population and providing viewing opportunities for visitors such as us. Driving on further into the forest, we soon stopped and began a very quiet walk along a track that led to a hidden hut in the woods, overlooking an open clearing. Even before we reached the hide, big, brown, woolly things could be seen moving around ahead of us, so we hurried into the hide and prepared for some prime bear watching. And we were not to be disappointed, as we spent over an hour watching a total of eight different bears, all visiting this regular spot for a few tasty morsels before heading out for a night in the hills. As well as the expected 'regulars', timid youngster of about 18 months old showed up and soon bolted up a tree when startled all too frequently by the older bears! A couple of Red Foxes also provided entertainment as they mooched after scraps that the bears had left. All in all, a wonderful experience...

Day 5

Saturday 15th June

Every day it seemed to be getting a little hotter and the clouds were building up each afternoon. Today, the storms finally hit the region, although we managed to dodge the worst of it. We began by walking a trail along the northern edge of the Piatra Craiului National Park, a walk that took us through some remarkably beautiful landscapes of traditional hay meadows, spruce forests and craggy peaks. The start of the walk took us through more easily cultivated or altered land and the flora was rather poorer for it, the fields being dominated by a relatively small number of stronger growing grass species and a few Warty Cabbage plants – though singing Marsh and Icterine Warblers ensured there was still interest here. Moving on up, we soon found ourselves in a sea of blue Meadow Clary, stretching in waves up the hillside. More and more plants followed and included Viola declinata, Ajuga genevensis, Podospermum (Scorzonera) purpurea, Greater Meadow-rue, Burnt Orchid and Alpine Woundwort to name but a few. Yellowhammers, Tree Pipits and Red-backed Shrikes were present along the tree and scrub line. As ever, the morning disappeared all too quickly and we were soon meeting up with the ladies for another wonderful picnic lunch in the field.

With the skies getting ever greyer and the threat of rain looming ever closer, we made an early return to the hotel rather than continue further up the hill and away from cover. When we got back to the hotel, the heavens did indeed open, though luckily our little patch of earth only got light summer rain. We took a well-earned time-out and rest period, while most made a walk along the dirt road to the nearby monastery and came back with all sorts of tales of special treats given out by monastery staff!

Day 6

Sunday 16th June

With so many wonderful valleys around the region, it always seemed easy to find yet another new place to visit. Today, we spent the whole day walking the Barsa Valley, beginning with the lower section, where the river meanders through a grassy floodplain. Common Buzzards and Ravens cruised over the wooded slopes and the warm day turned into a great one for butterflies. Some managed to chance across a Poplar Admiral on the water's edge, while others enjoyed a Lesser Marbled Fritillary. Laurenco did a great job in catching a Sand Lizard and a range of blues and fritillaries danced along the roadside while Hungarian Gliders twitched through the alders. Lunch was, once again, a grand affair of local delights and yet again was one of the day's real highlights.

Once well fed, we continued along a trail beside a side stream and then headed up a much steeper slope into more forested land. Once amongst the trees, a few more birds came our way and we finally managed to pin down a nice Crested Tit – a species that had been pretty elusive until now. Common Treecreeper, Long-tailed and Coal Tits, Great Spotted Wodpecker and Goldcrest called from the spruces and, during a rest stop on the way up, a Collared Flycatcher was alarm-calling from a large stand of beech trees. We continued up above the trees and into open, grassy slopes, covered in thyme. At an old shepherd shed on the hill top we took a breather and found a Cuckoo, while a party of three Common Crossbills was seen by some and a Lesser Whitethroat sang as we left the trees. We had planned a circular walk, but information from a local herdsman revealed that our intended route may be blocked by fallen vegetation, so we slowly made our way back along the way we had come.

Day 7

Monday 17th June

Our final full day was upon us and we headed back to the Strâmbei Valley, where we had enjoyed the bears a few days before. This time, however, we stayed down in the lower part of the valley, where the river meanders through a seemingly endless corridor of flower-rich meadows and butterflies dance across the grass tops. We started our travels with a horse and cart ride from the local town, which gave us a great insight into the old ways of Transylvania as we passed under a White Stork with four youngsters and out through small holdings and hay meadows. Turning off onto the dirt road that leads up into the forest, we began our morning walk. Here, Narrow-leaved Everlasting-pea added an unusual touch of colour to the verge as we strolled along, but interest soon turned from plants to butterflies as Silver-washed, Dark Green, Heath and Queen-of-Spain Fritillaries were all found. A couple of Purple Emperors were rather too flighty for proper views, as were the False Commas that had been seen briefly during the horse and cart ride.

Sadly, it was our last Elena and Simona picnic today so we made the best of it (which was pretty easy!) and even the nettles were popular! We continued to walk a little further, enjoying dense stands of Ostrich – or Shuttlecock – Ferns along the water courses and a remarkable number of White False-helleborine stands in the meadows. A couple of Honey Buzzards gave great views and allowed us to make comparisons of their subtle shape differences with Common Buzzards. Birds had teased us by calling but staying out of the heat, including a couple of quite close Golden Orioles, but we did eventually pin down a nice Great Spotted Woodpecker in nearby willows. With packing for home now becoming a priority, we headed back a little earlier than usual, though some were efficient enough to still get in a walk to the local monastery again.

Day 8

Tuesday 18th June

With bags all packed and sorted in good time, we took a leisurely breakfast then said our goodbyes to the team at the hotel. Heading downhill for the last time, we headed out through Zarnesti and up through the hills to Bran, where we had a guided tour, courtesy of Laurenco, of the famous Bran Castle and discovered that its connection with Dracula is not quite what we had thought! Back down in the lowlands, we took one last break for coffees and a packed lunch before we headed for the airport and our flights home.

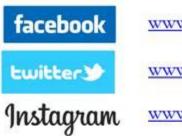
Thanks to those who had gone to great lengths to make this a successful tour.

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Species Lists

Birds (\checkmark =recorded but not counted; H = heard only; > = more than)

				June								
	Common name	Scientific name	11	12	13	14	15	16	17	18		
1	Mute Swan	Cygnus olor		✓								
2	Garganey	Spatula querquedula		1								
3	Mallard	Anas platyrhynchos	1	✓								
4	Common Pochard	Aythya ferina		15								
5	Ferruginous Duck	Aythya nyroca		7								
6	Little Grebe	Tachybaptus ruficollis		1								
7	Great Crested Grebe	Podiceps cristatus		✓								
8	White Stork	Ciconia ciconia	✓	✓		✓			✓	✓		
9	Little Bittern	Ixobrychus minutus		3								
10	Black-crowned Night Heron	Nycticorax nycticorax		12								
11	Squacco Heron	Ardeola ralloides		1								
12	Grey Heron	Ardea cinerea		10					1			
13	Great Egret	Ardea alba		2								
14	Little Egret	Egretta garzetta		6								
15	Pygmy Cormorant	Microcarbo pygmeus		6								
16	Great Cormorant	Phalacrocorax carbo		✓								
17	European Honey Buzzard	Pernis apivorus							2			
18	Lesser Spotted Eagle	Clanga pomarina		5					2			
19	Eurasian Sparrowhawk	Accipiter nisus						1				
20	Western Marsh Harrier	Circus aeruginosus		4								
21	Common Buzzard	Buteo buteo		6		4	2	4	✓	2		
22	Common Moorhen	Gallinula chloropus		2								
23	Eurasian Coot	Fulica atra		✓								
24	Northern Lapwing	Vanellus vanellus		1								
25	Ruff	Calidris pugnax		1								
26	Black-headed Gull	Chroicocephalus ridibundus		√								
27	Little Gull	Hydrocoloeus minutus		10								
28	Yellow-legged Gull	Larus michahellis		√			2					
29	Caspian Gull	Larus cachinnans		√			_					
30	Whiskered Tern	Chlidonias hybrida		√								
31	Black Tern	Chlidonias niger		10								
32	Feral Rock Dove	Columba livia	✓				✓		✓	✓		
33	Stock Dove	Columba oenas		7								
34	Common Wood Pigeon	Columba palumbus				1		2	1			
35	European Turtle Dove	Streptopelia turtur		1		'						
36	Eurasian Collared Dove	Streptopelia decaocto	✓			✓			✓	✓		
37	Common Cuckoo	Cuculus canorus	,	 H		•		1	1			
					2			1				
38 39	Alpine Swift Common Swift	Tachymarptis melba	✓	1	∠ ✓	✓			✓	✓		
40	Common Kingfisher	Apus apus Alcedo atthis	-	2	,	•			_	Ė		
41						2						
	Middle Spotted Woodpecker	Dendrocoptes medius										
42	Lesser Spotted Woodpecker	Dryobates minor			1.1	Н	4	1.7	4			
43	Great Spotted Woodpecker	Dendrocopos major			Н	Н	1	Н	1	Ш		
44	Black Woodpecker	Dryocopus martius			1	_		Н	1	Н		
45	Common Kestrel	Falco tinnunculus		2	1	1						
46	Peregrine Falcon	Falco peregrinus			1	_	_	_				
47	Red-backed Shrike	Lanius collurio			2	6	2	2	6	2		

						Ju	ne			
	Common name	Scientific name	11	12	13	14	15	16	17	18
48	Eurasian Golden Oriole	Oriolus oriolus				Н			Н	
49	Eurasian Jay	Garrulus glandarius		✓	2	2	✓	✓	✓	✓
50	Eurasian Magpie	Pica pica	✓	✓	✓	✓	✓	✓	✓	✓
51	Spotted Nutcracker	Nucifraga caryocatactes					1	1		
52	Western Jackdaw	Coloeus monedula	✓							✓
53	Rook	Corvus frugilegus				✓				✓
54	Hooded Crow	Corvus cornix	✓	✓	✓		1		2	
55	Northern Raven	Corvus corax	✓	✓	✓	✓	✓	✓	✓	
56	Coal Tit	Periparus ater			✓		Н	✓		
57	European Crested Tit	Lophophanes cristatus			✓			2		
58	Marsh Tit	Poecile palustris		✓	✓	✓	✓	✓	✓	
59	Eurasian Blue Tit	Cyanistes caeruleus				✓	✓	✓	✓	
60	Great Tit	Parus major			✓	✓	✓	✓		
61	Eurasian Skylark	Alauda arvensis				Н		Н	Н	
62	Sand Martin	Riparia riparia		√						
63	Barn Swallow	Hirundo rustica	✓	√	1	√	√	√	√	✓
64	Common House Martin	Delichon urbicum	/	√	√	√	✓	√	✓	✓
65	Long-tailed Tit	Aegithalos caudatus			✓			✓		
66	Common Chiffchaff	Phylloscopus collybita			✓	√	√	· /	√	✓
67	Wood Warbler	Phylloscopus sibilatrix			Н	•	•	Н	•	
68	Great Reed Warbler	Acrocephalus arundinaceus		1	11			- 11		-
69		Acrocephalus schoenobaenus		2						-
	Sedge Warbler	·					4			-
70	Marsh Warbler	Acrocephalus palustris		3			1			-
71	Icterine Warbler	Hippolais icterina					Н			-
72	Savi's Warbler	Locustella luscinioides		H						✓
73	Eurasian Blackcap	Sylvia atricapilla		√	√	√	√	√	√	∨
74	Garden Warbler	Sylvia borin		√	✓	✓	✓	√	V	_ _
75	Lesser Whitethroat	Sylvia curruca		Н				Н		
76	Common Whitethroat	Sylvia communis		✓			Н		Н	
77	Goldcrest	Regulus regulus			✓			✓		
78	Eurasian Wren	Troglodytes troglodytes			Н	2		Н		<u> </u>
79	Eurasian Nuthatch	Sitta europaea		1		2		1	✓	
80	Eurasian Treecreeper	Certhia familiaris						✓		
81	Common Starling	Sturnus vulgaris	✓	✓	✓	✓	✓	✓	✓	✓
82	Common Blackbird	Turdus merula	✓	✓	✓	✓	✓	✓	✓	✓
83	Fieldfare	Turdus pilaris		✓	✓	✓	✓		✓	✓
84	Song Thrush	Turdus philomelos		✓	✓	✓	✓	✓	✓	✓
85	Mistle Thrush	Turdus viscivorus			2			2	✓	
86	Spotted Flycatcher	Muscicapa striata				1	1			
87	European Robin	Erithacus rubecula	✓	✓	✓	✓	✓	✓	✓	✓
88	Collared Flycatcher	Ficedula albicollis						Н		
89	Black Redstart	Phoenicurus ochruros		✓	✓	✓	✓	✓	✓	✓
90	Common Redstart	Phoenicurus phoenicurus		1	2					
91	White-throated Dipper	Cinclus cinclus				1				
92	House Sparrow	Passer domesticus		✓		✓	✓	✓	✓	✓
93	Eurasian Tree Sparrow	Passer montanus		√		√	✓		✓	✓
94	Dunnock	Prunella modularis						√		
95	Blue-headed Wagtail	Motacilla flava flava		4						
96	Grey Wagtail	Motacilla cinerea		- -	✓	√	✓	✓	✓	✓
97	White Wagtail	Motacilla alba	✓	· ·	· ·	✓	· /	✓	·	✓
98	Tree Pipit	Anthus trivialis		-	Н	2	4	· /	Н	-

		mon name Scientific name	June										
	Common name		11	12	13	14	15	16	17	18			
99	Common Chaffinch	Fringilla coelebs		✓	✓	✓	✓	✓	✓	✓			
100	Hawfinch	Coccothraustes coccothraustes				3							
101	Eurasian Bullfinch	Pyrrhula pyrrhula				1							
102	European Greenfinch	Chloris chloris			✓	✓	✓		✓	✓			
103	Common Linnet	Linaria cannabina		2									
104	Common Crossbill	Loxia curvirostra						3					
105	European Goldfinch	Carduelis carduelis		✓			✓			✓			
106	European Serin	Serinus serinus		✓					2	✓			
107	Corn Bunting	Emberiza calandra								✓			
108	Yellowhammer	Emberiza citrinella		3		4	4		3	✓			

Mammals (s= signs of)

1	Red Squirrel	Sciurus vulgaris			s		s		
2	Brown Hare	Lepus europaeus			1				
3	Common Mole	Talpa europaea	!						
4	Red Fox	Vulpes vulpes			2				
5	Brown Bear	Ursus arctos			8		S		
6	Chamois	Rupicapra rupicapra	7	3		✓	8		
7	Red Deer	Cervus elaphus	1						
8	Badger	Meles meles					S		
9	Wild Boar	Sus scrofa	s	S		S	S	S	

Reptiles & Amphibians

1	Viviparous Lizard	Zootoca vivipara		✓				
2	Sand Lizard	Lacerta agilis		✓	✓		✓	
3	Slow-worm	Anguis fragilis			✓			
4	Yellow-bellied Toad	Bombina variegata		✓		✓	✓	
5	Agile Frog	Rana dalmatina			✓			
6	Marsh Frog	Rana ridibunda	✓		✓			

Butterflies

Common Swallowtail, Papilio machaon

Small White, Pieris rapae

Green-veined White, Pieris napi

Orange Tip, Anthocharis cardamines

Pale Clouded Yellow, Colias hyale

Wood White, Leptidea sinapis

Sooty Copper, Lycaena tityrus

Little Blue, Cupido minimus

Brown Argus, Aricia agestis

Common Blue, Polyommatus icarus

Purple Emperor, Apatura iris

Hungarian Glider, Neptis rivularis

Comma, Polygonia c-album

Map, Araschnia levana

Red Admiral, Vanessa atalanta

Dark Green Fritillary, Argynnis aglaja

Pearl-bordered Fritillary, Boloria euphrosyne

Clouded Apollo, Parnassius mnemosyne

Large White, Pieris brassicae

Mountain Green-veined White, Pieris bryoniae

Clouded Yellow, Colias crocea

Brimstone, Gonepteryx rhamni

Large Copper, Lycaena dispar

Purple-shot Copper, Lycaena alciphron

Green-underside Blue, Glaucopsyche alexis

Turquoise Blue, Polyommatus dorylas

Duke of Burgundy, Hamearis lucina

Poplar Admiral, Limenitis populi

Small Tortoiseshell, Aglais urticae

False Comma, Nymphalis vaualbum

Painted Lady, Vanessa cardui

Silver-washed Fritillary, Argynnis paphia

Lesser Marbled Fritillary, Brenthis ino

Small Pearl-bordered Fritillary, Boloria selene

Heath Fritillary, *Melitaea athalia*Woodland Ringlet, *Erebia medusa*Pearly Heath, *Coenonympha arcania*Speckled Wood, *Pararge aegeria*Dingy Skipper, *Erynnis tages*Large Skipper, *Ochlodes venatus*

Queen of Spain Fritillary, Issoria lathonia Meadow Brown, Maniola jurtina Small Heath, Coenonympha pamphilus Wall Brown, Lasiommata megera Small Skipper, Thymelicus sylvestris

Moths

Argent-and-sable, Rheumaptera hastata Silver Y, Rivula sericealis Burnet Companion, Euclidia glyphica Silver-Y, Autographa gamma

Dragons & Damsels

Banded Demoiselle, *Calopteryx splendens*Small Redeye, *Erythromma viridulum*Large Red Damsel, *Pyrrhosoma nymphula*Blue Emperor, *Anax imperator*Green-eyed Hawker, *Aeshna isoceles*White-tailed Skimmer, *Orthetrum albistylum*

Speckled Yellow, *Pseudopanthera macularia*Straw Dot, *Rivula sericealis*Black-veined Moth, *Siona lineata*Hummingbird Hawk-moth, *Macroglossum stellatarum*

Beautiful Demoiselle, Calopteryx virgo
Common Bluetail, Ischnura elegans
Blue Featherleg, Platycnemis pennipes
Lesser Emperor, Anax parthenope
Broad-bodied Chaser, Libelulla depressa
Black-tailed Skimmer, Orthetrum cancellatum

Limestone Fern

Ostrich Fern

Common Lady Fern

Hard Shield Fern

European Silver Fir

Norway Spruce

Common Juniper

Common Water-plantain

White False-helleborine

Broad-leaved Helleborine

Fat Duckweed

Meadow Saffron

Bird's-nest Orchid

Bug Orchid

Burnt Orchid

Sand Garlic

Common Twayblade

Lesser Butterfly Orchid

Common Spotted Orchid

Long-spurred Fragrant Orchid

Common Heath Spotted Orchid

Male Fern

Plants

Equisetaceae

Marsh HorsetailEquisetum palustreWood HorsetailEquisetum sylvaticumField HorsetailEquisetum arvenseGreat HorsetailEquisetum telmateia

Cystopteridaceae

Brittle Bladder Fern Cystopteris fragilis

Gymnocarpium robertianum

Aspleniaceae

Maidenhair SpleenwortAsplenium trichomanesGreen SpleenwortAsplenium virideWall-rueAsplenium ruta-muraria

Onocleaceae

Matteuccia struthiopteris

Athyriaceae

Athyrium filix-femina

Dryopteridaceae

Polystichum aculeatum Dryopteris filix-mas

Pinaceae
Abies alba
Picea abies

Cupressaceae

Juniperus communis

Araceae

Lemna gibba

Alismataceae

Alisma plantago-aquatica

Melanthiaceae
Veratrum album
Colchicum autumnale

Orchidaceae

Epipactis helleborine
Neottia nidus-avis
Neottia ovata
Platanthera bifolia
Gymnadenia conopsea
Dactylorhiza fuchsii
Dactylorhiza maculata
Anacamptis coriophora
Neotinea ustulata

Iridaceae

Yellow Iris Iris pseudacorus

Gladiolus imbricatus Allium scorodoprasum

Typhaceae

Branched Bur-reed Sparganium erectum Greater Reed-mace Typha latifolia

Juncaceae

Hard Rush

Soft Rush

Compact Rush

Juncus inflexus

Juncus effusus

Juncus conglomeratus

Slender Rush
Toad Rush
Juncus bufonius
Jointed Rush
Field Wood-rush
Juncus articulatus
Luzula campestris

Great Wood-rush

Luzula sylvatica

White Wood-rush

Luzula luzuloides

Cyperaceae

Wood Club-rush
Broad-leaved Cottongrass
Many-stalked Spike-rush
False Fox Sedge
Hairy Sedge
Wood Sedge
Carex sylvatica
Carex sylvatica

Poaceae

Red Fescue Festuca rubra Meadow Fescue Lolium pratense Tall Fescue Lolium arundinaceum Perennial Rye-grass Lolium perenne Annual Meadow-grass Poa annua Rough Meadow-grass Poa trivialis **Smooth Meadow-grass** Poa pratensis Wood Meadow-grass Poa nemoralis

Cock's-foot Dactylis glomerata
Crested Dog's-tail Cynosurus cristatus

Common Quaking-grass Briza media

Sesleria coerulans
Wood Melick
Melica uniflora
Small Sweet-grass
Glyceria declinata
Upright Brome
Bromus erectus
Soft Brome
Bromus hordeaceus
Common False-brome
Brachypodium sylvaticu

Common False-brome

Heath False-brome

Common Couch

Brachypodium sylvaticum

Brachypodium pinnatum

Elymus repens

False Oat-grass

Yellow Oat-grass

Trisetum flavescens

Tufted Hair-grass

Sweet Vernal Grass

Yorkshire-foq

Arrhenatherum elatius

Trisetum flavescens

Deschampsia cespitosa

Anthoxanthum odoratum

Holcus lanatus

Common Bent

Wood Small-reed

Timothy

Reed Canary-grass

Common Reed

Purple Moor-grass

Agrostis capillaris

Calamagrostis epigejos

Phleum pratense

Phalaris arundinacea

Phragmites australis

Molinia caerulea

Mat-grass Nardus stricta
Papaveraceae

Common Poppy Papaver rhoeas
Greater Celandine Chelidonium majus

Ranunculaceae

Marsh Marigold Caltha palustris Forking Larkspur Consolida regalis Wood Anemone Anemone nemorosa Traveller's-joy Clematis vitalba Alpine Clematis Clematis alpina Globeflower Trollius europaeus Creeping Buttercup Ranunculus repens Meadow Buttercup Ranunculus acris Goldilocks Buttercup Ranunculus auricomus Common Columbine Aquilegia vulgaris

Great Meadow-rue Thalictrum aquilegiifolium

Saxifragaceae

Spoon-leaved Saxifrage Saxifraga cuneifolia Livelong Saxifrage Saxifraga paniculata **Fabaceae**

Dyer's Greenweed Genista tinctoria Winged Greenweed Genista sagittalis Black Locust Robinia pseudacacia Goat's-rue Galega officinalis Wild Liquorice Astragalus glycyphyllos

Tufted Vetch Vicia cracca Fine-leaved Vetch Vicia tenuifolia **Bush Vetch** Vicia sepium Vicia sativa Common Vetch Yellow Vetch Vicia lutea

Meadow Vetchling Lathyrus pratensis Tuberous Pea Lathyrus tuberosus

Narrow-leaved Everlasting Pea Lathyrus sylvestris **Grass Vetchling** Lathyrus nissolia Field Restharrow Ononis arvensis Tall Melilot Melilotus altissimus Black Medick Medicago lupulina Sickle Medick Medicago falcata Mountain Clover Trifolium montanum White Clover Trifolium repens Trifolium hybridum Alsike Clover Hare's-foot Clover Trifolium arvense Red Clover Trifolium pratense Zigzag Clover Trifolium medium Sulphur Clover Trifolium ochroleucon Hungarian Clover Trifolium pannonicum

Common Bird's-foot Trefoil Lotus corniculatus Crown Vetch Securigera varia Common Kidney-vetch Anthyllis vulneraria

Common Sainfoin Onobrychis viciifolia

Polygalacaeae

Common Milkwort Polygala vulgaris

Rosaceae

Elm-leaved Spiraea Spiraea chamaedryfolia **Dropwort** Filipendula vulgaris Meadowsweet Filipendula ulmaria Rubus idaeus Raspberry Bramble Rubus fruticosus agg.

Dog Rose Rosa canina

Common Agrimony Agrimonia eupatoria

Water Avens Geum rivale Wood Avens Geum urbanum Hoary Cinquefoil Potentilla argentea Thuringian Cinquefoil Potentilla thuringiaca **Tormentil** Potentilla erecta White Cinquefoil Potentilla alba Wild Strawberry Fragaria vesca Wild Pear Pyrus pyraster

Rowan Sorbus aucuparia Common Whitebeam Sorbus aria

Common Hawthorn Crataegus monogyna Cherry Plum Prunus cerasifera Wild Cherry Prunus avium Bird Cherry Prunus padus

Rhamnaceae

Alder Buckthorn Frangula alnus

Elms **Ulmaceae** Wych Elm Ulmus glabra

Cannabaceae

Hop Humulus lupulus

Urticaceae

Common Nettle Urtica dioica

Fagaceae

European Beech Fagus sylvatica
Pedunculate Oak Quercus robur

Betulaceae

Silver Birch Betula pendula
Common Alder Alnus glutinosa
Grey Alder Alnus incana
European Hornbeam Carpinus betulus
Hazel Corylus avellana

Cucurbitaceae

Echinocystis lobata

Celastraceae

European Spindle Euonymus europaeus

Oxalidaceae

Wood Sorrel Oxalis acetosella

Wild Pansy

Hypericaceae

Umbellate St John's-wort
Imperforate St John's-wort
Perforate St John's-wort

Hypericum maculatum
Hypericum perforatum

Violaceae

Viola declinata
Viola tricolor

Willows & Poplars Salicaceae Crack Willow Salix x fragilis White Willow Salix alba Almond Willow Salix triandra **Grey Willow** Salix cinerea **Goat Willow** Salix caprea Purple Willow Salix purpurea White Poplar Populus alba Aspen Populus tremula

Hybrid Black Poplar Populus x canadensis

Euphorbiaceae

Annual Mercury

Dog's Mercury

Sun Spurge

Wood Spurge

Mercurialis annua

Mercurialis perennis

Euphorbia helioscopia

Euphorbia amygdaloides

Linaceae

Fairy Flax Linum austriacum

Linum catharticum

Geraniaceae

Meadow CranesbillGeranium pratenseDusky CranesbillGeranium phaeumShining CranesbillGeranium lucidumHerb RobertGeranium robertianum

Lythraceae

Purple Loosestrife Lythrum salicaria

Onagraceae

Enchanter's-nightshade Circaea lutetiana
Common Evening-primrose Oenothera biennis
Great Willowherb Epilobium hirsutum
Broad-leaved Willowherb Epilobium montanum

Sapindaceae

Norway Maple Acer platanoides
Field Maple Acer campestre

Sycamore Acer pseudoplatanus

Tymelaeaceae

Mezereon Daphne mezereum

Cistaceae

Common Rock-rose Helianthemum nummularium

Brassicaceae

Sisymbrium officinale Hedge Mustard Flixweed Descurainia sophia Sand Thale-cress Arabidopsis arenosa Warty Cabbage Bunias orientalis Erysimum odoratum

Common Winter-cress Barbarea vulgaris Creeping Yellow-cress Rorippa sylvestris Marsh Yellow-cress Rorippa palustris **Coralroot Bittercress** Cardamine bulbifera Narrow-leaved Bittercress Cardamine impatiens

Hairy Rock-cress Arabis hirsuta Perennial Honesty Lunaria rediviva Common Whitlowgrass Draba verna

Shepherd's-purse Capsella bursa-pastoris

Loranthaceae

Loranthus europaeus

Polygonaceae

Caryophyllaceae

Equal-leaved Knotgrass Polygonum arenastrum Redshank Persicaria maculosa Common Bistort Persicaria bistorta Alpine Bistort Persicaria vivipara Giant Knotweed Fallopia sachalinensis Sheep's Sorrel Rumex acetosella Mountain Dock Rumex alpestris Common Sorrel Rumex acetosa Monk's-rhubarb Rumex pseudoalpinus

Water Dock Rumex hydrolapathum **Curled Dock** Rumex crispus

Broad-leaved Dock Rumex obtusifolius

Thyme-leaved Sandwort

Good-King-Henry

Fat-hen

Arenaria serpyllifolia Mossy Sandwort Moehringia muscosa Wood Stitchwort Stellaria nemorum Common Chickweed Stellaria media Stellaria holostea **Greater Stitchwort** Lesser Stitchwort Stellaria graminea Water Chickweed Stellaria aquatica Snow-in-summer Cerastium tomentosum Field Mouse-ear Cerastium arvense Common Mouse-ear Cerastium fontanum Procumbent Pearlwort Sagina procumbens **Annual Knawel** Scleranthus annuus Ragged Robin Silene flos-cuculi Sticky Catchfly Silene viscaria Nottingham Catchfly Silene nutans Bladder Campion Silene vulgaris

White Campion Silene latifolia Carthusian Pink Dianthus carthusianorum Spike-leaved Pink Dianthus spiculifolius

Amaranthaceae

Blitum bonus-henricus Chenopodium album

Cornaceae

Common Dogwood Cornus sanguinea

Balsaminaceae

Indian Balsam Impatiens glandulifera

Primulaceae

Common Cowslip Primula veris Creeping Jenny

Lysimachia nummularia

Ericaceae

Spike Heath Bruckenthalia spiculifolia Bilberry Vaccinium myrtillus

Rubiaceae

Sweet Woodruff Galium odoratum Common Marsh Bedstraw Galium palustre Lady's Bedstraw Galium verum

Galium album Galium intermedium

Cleavers Galium aparine Crosswort Cruciata laevipes Glabrous Crosswort Cruciata glabra

Gentianaceae

Willow Gentian Gentiana asclepiadea Spring Gentian Gentiana verna Autumn Gentian Gentianella amarella Bladder Gentian Gentianella uliginosa

Apocynaceae

Common Swallow-wort Vincetoxicum hirundinaria

Boraginaceae

Viper's-bugloss Echium vulgare Common Comfrey Symphytum officinale Symphytum cordatum

Field Forgetmenot Myosotis arvensis Wood Forgetmenot Myosotis sylvatica **Tufted Forgetmenot** Myosotis laxa

Convolvulaceae Greater Dodder Cuscuta europaea

Field Bindweed Convolvulus arvensis

Solanaceae

Bittersweet Solanum dulcamara

Oleaceae

Common Ash Fraxinus excelsior

Plantaginaceae

Yellow Foxglove Digitalis grandiflora Nettle-leaved Speedwell Veronica urticifolia Heath Speedwell Veronica officinalis Germander Speedwell Veronica chamaedrys Brooklime Veronica beccabunga Greater Plantain Plantago major

Hoary Plantain Plantago media Ribwort Plantain Plantago lanceolata

Scrophulariaceae

Dense-flowered Mullein Verbascum densiflorum Hungarian Mullein Verbascum speciosum White Mullein Verbascum lychnitis Italian Figwort Scrophularia scopolii Common Figwort Scrophularia nodosa Scrophularia heterophylla

Lamiaceae

Blue Bugle Ajuga genevensis Common Bugle Ajuga reptans

Wall Germander Teucrium chamaedrys Common Skullcap

Common Hemp-nettle

Spotted Dead-nettle

White Dead-nettle

Scutellaria galericulata

Galeopsis tetrahit

Lamium maculatum

Lamium album

Yellow Archangel Lamiastrum galeobdolon

Ballota nigra

Black Horehound

Betony Betonica officinalis Limestone Woundwort Stachys alpina Hedge Woundwort Stachys sylvatica Marsh Woundwort Stachys palustris Ground-ivy Glechoma hederacea Selfheal Prunella vulgaris Alpine Calamint Clinopodium alpinum Basil-thyme Clinopodium acinos Wild Marjoram Origanum vulgare Large Thyme Thymus pulegioides Gypsywort Lycopus europaeus Horse Mint Mentha longifolia Meadow Clarv Salvia pratensis Balkan Clary Salvia nemorosa

Whorled Clary Salvia verticillata
Orobanchaceae

Bihar Cow-wheat Melampyrum bihariense
Common Cow-wheat Melampyrum pratense
Verticillate Lousewort Pedicularis verticillata
Yellow Rattle Rhinanthus minor

Rhinanthus major

Campanulaceae

Carpathian Bellflower
Spreading Bellflower
Peach-leaved Bellflower
Campanula patula
Campanula persicifolia
Campanula sibirica
Clustered Bellflower
Campanula glomerata

Campanula glomerata Phyteuma tetramerum

Asteraceae

Hemp Agrimony Eupatorium cannabinum

Common Daisy Bellis perennis

Heath Cudweed Gnaphalium sylvaticum

Elecampane
Yellow Oxeye
Telekia speciosa
Beggar-ticks
Bidens frondosa
Jerusalem Artichoke
Rough Cocklebur
Common Sneezewort
Common Yarrow
Achillea millefolium
Pingapplewood
Matricaria discoidea

Pineappleweed Matricaria discoidea
Tansy Tanacetum vulgare
Oxeye Daisy Leucanthemum vulgare

Common Mugwort Artemisia vulgaris
Colt's-foot Tussilago farfara
Common Butterbur Petasites hybridus
Mountain Arnica Arnica montana

Carpathian Leopardsbane Doronicum carpaticum

Groundsel Senecio vulgaris
Common Carline Thistle Carlina vulgaris
Greater Burdock Arctium lappa

Greater Burdock Arctium lappa
Broad-winged Thistle Carduus acanthoides
Great Marsh Thistle Carduus personata
Welted Thistle Carduus crispus

Spear Thistle Brook Thistle

Yellow Melancholy Thistle Cabbage Thistle Creeping Thistle Common Cotton Thistle Greater Knapweed Wig Knapweed Common Cornflower

Common Chicory Spotted Cat's-ear Common Cat's-ear

Eastern Goat's-beard Smooth Sow-thistle Prickly Lettuce Purple Lettuce Wall Lettuce Nipplewort

Beaked Hawksbeard Tall Mouse-ear-hawkweed Orange Fox-and-cubs

Dwarf Elder Common Elder Red-berried Elder Guelder-rose

Common Valerian

Three-leaved Valerian Mountain Valerian Wild Teasel Small Teasel Small Scabious

Sanicle

Great Masterwort

Pale Scabious

Great Masterwort

Hairy Chervil Burnet-saxifrage Ground-elder Hemlock

Sickle-leaved Hare's-ear

Caraway

Wild Angelica

Parsnip Common Hogweed

Giant Hogweed Broad-leaved Sermountain

Wild Carrot

Cirsium vulgare
Cirsium rivulare
Cirsium erisithales
Cirsium oleraceum

Cirsium arvense
Onopordum acanthium
Centaurea scabiosa
Centaurea phrygia
Centaurea cyanus

Centaurea stoebe Cichorium intybus

Cicnorium intybus
Hypochaeris maculata
Hypochaeris radicata
Podospermum purpureum

Tragopogon orientalis
Sonchus oleraceus
Lactuca serriola
Prenanthes purpurea
Mycelis muralis
Lapsana communis
Crepis vesicaria
Pilosella praealta

Pilosella aurantiaca Adoxaceae

Sambucus ebulus Sambucus nigra Sambucus racemosa Viburnum opulus

Caprifoliaceae

Valeriana officinalis
Valeriana sambucifolia
Valeriana tripteris
Valeriana montana
Dipsacus fullonum

Dipsacus pilosus Scabiosa columbaria Scabiosa ochroleuca

Apiaceae

Sanicula europaea
Astrantia major

Chaerophyllum aromaticum
Chaerophyllum hirsutum
Pimpinella saxifraga
Aegopodium podagraria
Conium maculatum
Bunlourum falcatum

Bupleurum falcatum Carum carvi

Cnidium silaifolium Angelica sylvestris

Peucedanum oreoselinum

Pastinaca sativa

Heracleum sphondylium Heracleum mantegazzianum

Laserpitium latifolium Daucus carota