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Checklist of the  
spontaneous flora of  
Royal Botanical Gardens'  
nature sanctuaries

BY: TYLER W. SMITH

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# INTRODUCTION

Dr. James S. Pringle compiled the first published plant checklist for Royal Botanical Gardens' nature sanctuaries in 1969 (Pringle, 1969). Pringle's *Checklist of the spontaneous vascular flora of the Royal Botanical Gardens* has since become an important reference for botanists and ecologists in Ontario. Even a cursory look through the flora of Hamilton (Goodban, 1995) reveals many species known only from collections documented in Dr. Pringle's report. Indeed, many of the records in the Gardens' checklist are provincially and nationally significant: red mulberry (*Morus rubra*) and few-flowered clubrush (*Trichophorum planifolium*) are endangered in Canada; Bowman's root (*Porteranthus trifoliata*) is now extirpated from Ontario; and some of the earliest, accidental introductions of swallow-worts (*Cynanchum nigrum* and *Cynanchum rossicum*)—aggressively invasive exotic species—were from the Gardens' properties (Pringle, 1973).

The original checklist is now out of date and in need of revision on two fronts. First, taxonomy is an evolving science; our understanding of species diversity is constantly improving, and the names we apply to species must reflect our increasing awareness. Second, and more immediately, many more species are now known from the Gardens' sanctuaries.

An update of a flora of this magnitude will inevitably be incomplete. New plant species continue to colonize the sanctuaries, especially along the rail lines and roadways that cross them. In addition, there must certainly be a small number of plants that await discovery by a keen-eyed botanist. Less gratifying, but equally important, some of the rarer species on the properties may no longer persist.

I trust that the updated checklist will be of value to botanists, plant conservationists, and naturalists. And I expect that from this audience will come many future additions, deletions, and corrections.

This work could not have been completed without the assistance of many people. Foremost among them is Dr. Pringle, whose guidance has been invaluable to me, both in the preparation of this checklist, and in my education as a botanist. Many significant new field records were collected by Lianne Bertoni, Mary DeGuzman, Dean Gugler, Kristina Lukavsky, Jeremy Lundholm, Erica Oberndorfer, Paul O'Hara, Melinda Thompson, Christine Thuring, Lyall Rudderham, Joanne Singfield, and

Rebecca Willison. Most of these people assisted with data entry and specimen preparation, as did Kirubiel Mahari and Andrew Scott. Carl Rothfels has earned special recognition for his work in the herbarium and in the field, ensuring that this document will itself be in need of updating in short order. Carl also provided very helpful comments on earlier drafts of this document. I accept full responsibility for any errors in this work.



## BOTANICAL EXPLORATION OF ROYAL BOTANICAL GARDENS' NATURE SANCTUARIES, 1933–1969

By Dr. James S. Pringle from the introduction of *Checklist of the spontaneous vascular flora of the Royal Botanical Gardens*, first edition.

The first list of native species occurring in the Gardens' natural areas was Senn's (1933) list of trees and shrubs. General floristic studies of the Gardens' natural areas were begun in 1946 under the joint auspices of the Gardens and the McMaster University Biology Department. William W. Judd collected aquatic and marsh species in Cootes' Paradise in 1946, and prepared the only published list of wild plants occurring on the Gardens' properties (Judd, 1950).

In 1947, Ivy Jean Brown and Raymond A. Sims collected terrestrial vascular plants, concentrating primarily on the uplands surrounding Cootes Paradise, but also collecting in the Hendrie Valley and Rock Chapel Sanctuaries. An unpublished list of species was compiled (Brown and Sims, 1947). This survey was continued in 1948 with the collection of aquatic species by Peter Pase, who also compiled a manuscript list (Pase, 1948).

During the period 1954–1957, Aleksander Tamsalu of the Gardens' staff conducted a floristic survey of all of the Gardens' properties except the Rock Chapel Sanctuary and the Valley Road Properties. His explorations greatly increased the number of vascular plant species known to occur on these properties. Tamsalu's specimens constitute the greater part of the Gardens' records of spontaneously occurring species. Hitherto, however, the records of his floristic inventory have remained in the form of herbarium specimens only, except for a manuscript report of his earlier ecological studies (Tamsalu, 1953; see also Lord, 1980).

The vascular flora of the Rock Chapel Sanctuary was surveyed in 1963 by Robert M. Johns, who prepared an unpublished list of species collected (Johns, 1963). Since the Valley Road Properties (now called the Berry Conservation Area) were acquired by the Gardens in 1965, I have collected vascular plants from these areas. McMaster University biology students and various other persons have from time to time collected additional plant specimens from the Gardens' natural areas. Since becoming Taxonomist at Royal Botanical Gardens, I have checked for accuracy of identification each species and variety alleged by herbarium labels to have occurred on these properties, and have examined nearly all of the individual specimens in the Gardens' herbarium which had been collected from these natural areas.

Brown and Sims', Tamsalu's, and Johns' collections were accompanied by maps, on which the natural areas surveyed were divided into smaller units. In Tamsalu's surveys, the Cootes' Paradise and Hendrie Valley Sanctuaries were divided into 270 ecologically and physiographically defined areas; these are sufficiently small that in many cases they can be used for the relocation of a wild plant population. Johns' records, in which the Rock Chapel Sanctuary is divided into 18 such units, are likewise useful in locating plant species. (See also maps in Wragg (1949).)

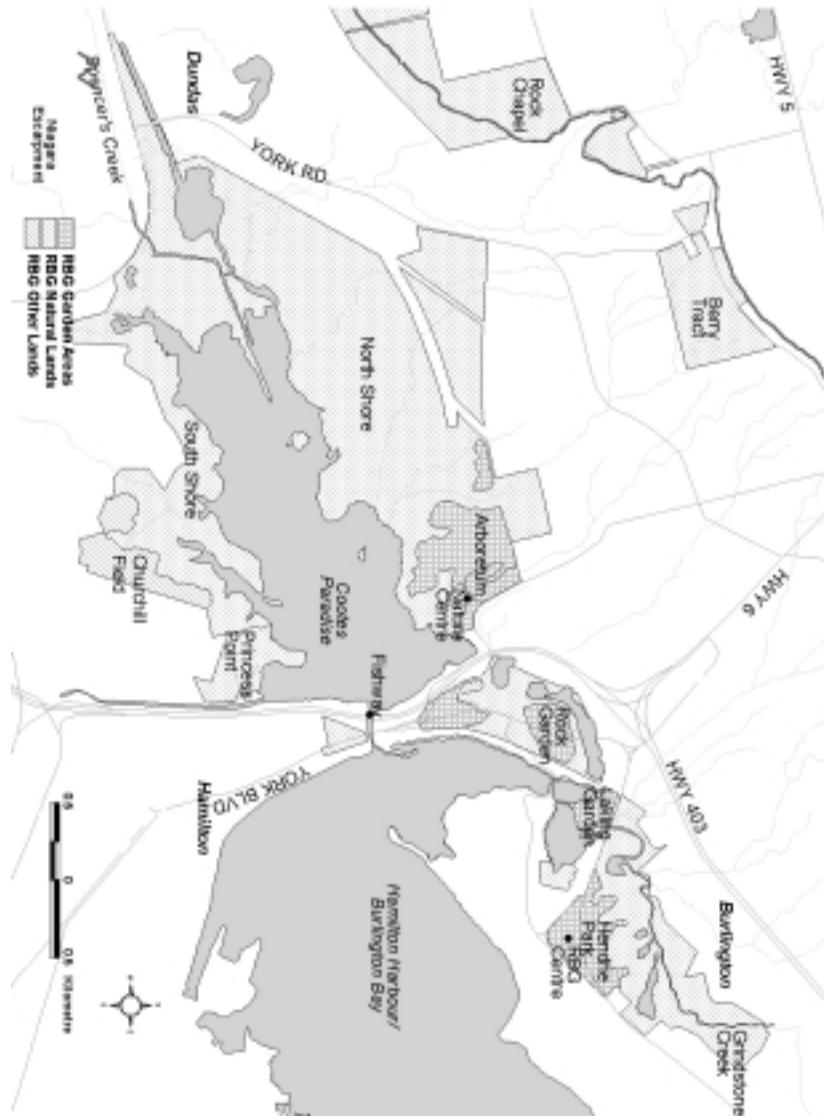
## BOTANICAL EXPLORATIONS 1969–2002

Dr. Pringle's primary responsibilities at the Gardens have related to his systematic research. However, he continues to document additions to the flora of the Gardens' sanctuaries, particularly newly established exotic species (Pringle, 1973, 1974, 1980, 1986a, b, 1994, 2003).

Several biologists were employed in surveying the wetland flora of Cootes Paradise in the 1970s. The first was John "Jack" Lord. The results of his work were included in later publications by Len Simser. Simser conducted both floral and zoological surveys in the sanctuaries (Simser, 1982; Painter, McCabe, and Simser, 1999). He later went on to lead efforts to restore these wetland areas. Under his direction, Justus Benkhuyzen conducted additional wetland flora surveys (Pomfret and Benkhuyzen, 1993) and initiated a wetland planting program (see Restoration and Conservation Work). Jeremy Lundholm continued this work from 1996 to 1998 (Lundholm and Simser, 1999).

My own research into the flora of the Gardens' sanctuaries began in 1998. My primary responsibilities have been to assist in the restoration of Cootes Paradise. In addition, I have conducted extensive vegetation surveys over the entire property, with special attention paid to provincially and nationally rare species (Smith, 1999; Smith and Oldham, 1999; Smith, 2000a, b; Smith, Lundholm, and Simser, 2001; Thuring and Smith, 2001; Smith, 2003). Paul O'Hara provided invaluable assistance with survey work in 2000 and 2001, particularly in documenting populations of the endangered species, red mulberry (*Morus rubra*) and few-flowered club-rush (*Trichophorum planifolium*) (O'Hara, 2000a, b). I have also compiled detailed vegetation community maps, which are on file at the Gardens.

As of 2001, Carl Rothfels has taken over as the Gardens' field botanist. In his first season he made many significant contributions and corrections to this checklist (Rothfels, 2003). I have included all of his records up to January 2003.



## DESCRIPTION OF THE PROPERTIES

The Gardens' nature sanctuaries are composed of four loosely connected areas, approximately 805 hectares in total, at the west end of Hamilton Harbour: Cootes Paradise, Hendrie Valley, Rock Chapel, and Berry Tract.

## COOTES PARADISE

Encompassing 550 hectares, Cootes Paradise is the largest of the sanctuaries. The dominant feature of Cootes Paradise is a complex of shallow aquatic, mudflat, and emergent plant communities. The aquatic community is dominated by sago pondweed (*Potamogeton pectinatus*), but nearly two dozen other aquatic species are present. This community is extremely sensitive to water quality—we have documented a 10-fold difference in submergent plant density between years, due primarily to water quality and the destructive habits of carp (*Cyprinus carpio*) (Smith, Lundholm, and Simser, 2001). Among the submergent species present are two exotic species, which appear to be spreading in southern Ontario: yellow floating-heart (*Nymphoides peltata*) and smaller najas (*Najas minor*). The mudflat community is composed of nut-sedges (*Cyperus* spp.), smartweeds (*Polygonum* spp.), and beggar-ticks (*Bidens* spp.). The emergent community is dominated by native broad-leaved cattail (*Typha latifolia*), exotic narrow-leaved cattail (*T. angustifolia*) and their hybrid (*T. X glauca*) (Kuehn, 1998). Other important emergents are giant bur-reed (*Sparganium eurycarpum*), soft-stem bulrush (*Schoenoplectus tabernaemontani*), river bulrush (*Bulboschoenus fluviatilis*) and water willow (*Decodon verticillatus*). Most of the sedge-meadow and forb wet-meadow habitat in Cootes Paradise has been displaced by the aggressive, exotic, sweet manna grass (*Glyceria maxima*) (Gutteridge, 1954; Anderson and Reznicek, 1994). Native wet-meadow communities are now largely restricted to ravine bottoms upstream of the primary Cootes Paradise floodplain. Shadier areas of these ravines support large colonies of skunk cabbage (*Symplocarpus foetidus*).

The upland forests around Cootes Paradise are dominated by red, black, and white oak (*Quercus rubra*, *Q. velutina*, and *Q. alba*). Open sunny slopes support a remnant tallgrass flora, including savannah specialists such as fern-leaved false-foxtglove (*Aureolaria pedicularia*), rue-anemone (*Thalictrum thalictroides*), and hispid buttercup (*Ranunculus hispidus* var. *hispidus*), as well as generalist dry-forest species including Pennsylvania sedge (*Carex pensylvanica*), blue-stemmed goldenrod (*Solidago caesia*), pale blueberry (*Vaccinium pallidum*) and black huckleberry (*Gaylussacia baccata*). These areas appear to be in transition towards a more mesic community, and a controlled burn program may be necessary to maintain this provincially significant habitat type at Cootes Paradise.

Some of the cooler ravine slopes are characterized by more northern sugar maple (*Acer saccharum*)/beech (*Fagus grandifolia*)/hemlock (*Tsuga canadensis*) forests, with typical herbaceous associates like starflower (*Trientalis borealis*) and, rarely, shinleaf (*Pyrola elliptica*). Moist depressions throughout the Cootes Paradise forest support stands of black walnut (*Juglans nigra*) and sassafras (*Sassafras albidum*).

Large areas of the understory in all forest types in Cootes Paradise are dominated by invasive shrub species, predominantly honeysuckles (*Lonicera* spp.). The herbaceous vegetation in many places is a monoculture of garlic mustard (*Alliaria officinalis*) or swallow-wort (*Cynancum* spp.). Invasive species problems are exacerbated by an extensive and growing network of informal footpaths and bike trails.

While the ravine slopes may represent primary forest, most of the upland areas of Cootes Paradise have been cleared for pasture or cultivation in the past. These second growth areas now include a mosaic of old-field meadows, white pine (*Pinus strobus*) and poplar (*Populus* spp.) plantations, and successional thicket communities.

## HENDRIE VALLEY

Hendrie Valley Sanctuary is very similar to Cootes Paradise physiographically and floristically. Perhaps the most significant difference between the two areas is the greater success of the restoration of submergent plant communities in Hendrie Valley compared with Cootes Paradise. A large berm separates the Hendrie Valley floodplain ponds from the Grindstone Creek, and the Gardens' staff have for the most part been able to exclude carp from these ponds. As a consequence, submergent densities in Hendrie Valley are very high, comparable to those of undisturbed eutrophic wetlands.

## ROCK CHAPEL

Rock Chapel Sanctuary includes Niagara Escarpment cliff-face and forested talus slope habitat, and secondary forest and successional old-field communities. The talus slope forest is dominated by sugar maple. Chinquapin oak (*Quercus muehlenbergii*) is common on drier ridges along the slopes, while black walnut, basswood (*Tilia americana*), Manitoba maple (*Acer negundo*) and black maple (*Acer saccharum* ssp. *nigrum*) form small stands in the frequent groundwater seeps. Poison ivy (*Rhus rydbergii*) dominates the understory, giving way to pale jewelweed (*Impatiens pallida*) along wet slopes. This area is particularly rich in spring wildflowers, and is the home of the largest remaining population of the endangered red mulberry (*Morus rubra*) in Canada.

The cliff-face community at Rock Chapel is limited in area, but does include eastern white cedar (*Thuja occidentalis*) that are over 300 years old (Kelly and Larson, 2001). The area above the cliff has all been cleared and cultivated in the past, and is now in various stages of succession back towards a maple forest community. Gardens' staff have systematically allowed areas of the fields to revert to natural habitat as a study of succession.

## BERRY TRACT (VALLEY ROAD PROPERTIES)

Rock Chapel and Berry Tract (originally called the Valley Road Properties) protect adjacent sections of a natural community that extends along the Niagara Escarpment from Spencer's Falls Conservation Area in Hamilton to Waterdown Woods in Halton. As such, the talus forest at Berry Tract is very similar to that at Rock Chapel. However, it is much more fragmented by roads and housing developments. As a result, the understory is now dominated almost exclusively by exotic species, particularly pale swallow-wort (*Cynanchum rossicum*). The abandoned orchard below the Berry Tract talus is characterized by hawthorn (*Crataegus* spp.) thickets, but canopy trees are beginning to establish, particularly in moister gullies. A small seasonally wet opening along the road supports a diverse mix of sedges and rushes, as well as the provincially rare winged loosestrife (*Lythrum alatum*). This species has naturally established at this location since 1969.

## RESTORATION AND CONSERVATION WORK

The earliest efforts to restore or enhance the vegetation of the Gardens' sanctuaries were documented by John Lamoureux (1963). Lamoureux conducted a study of aquatic plant species, evaluating their potential food value for waterfowl in test plots established throughout Cootes Paradise. Several aquatic plant species were first collected in Cootes around this time, and it is unclear if they were present here naturally: tuckahoe (*Peltandra virginica*), hard-stem bulrush (*Schoenoplectus acutus*), three-square (*Schoenoplectus pungens*), and pickerel weed (*Pontederia cordata*).

The Gardens' plant pathologist Dr. Peter Rice initiated a project to transplant rare plant species into the sanctuaries in 1983 (Anonymous, 1983). The results of this project were documented only with handwritten field notes and maps. Occasionally, persistent populations established by Dr. Rice's students are "discovered" in the sanctuaries. From notes in the Gardens' archives it appears that the following species were transplanted into the sanctuaries, but were never known to occur here spontaneously:

White trout-lily, *Erythronium albidum*  
Cardinal flower, *Lobelia cardinalis*  
Culver's root, *Veronicastrum virginicum*  
Virginia bluebells, *Mertensia virginica*  
Twinleaf, *Jeffersonia diphylla*  
Oswego tea, *Monarda didyma*  
Moss phlox, *Phlox subulata*  
Black cohosh, *Cimicifuga racemosa*  
Perfoliate bellwort, *Uvularia perfoliata*  
Sedge, *Carex gracilescens*  
Prairie rose, *Rosa setigera*  
Ohio spiderwort, *Tradescantia ohioensis*  
Green dragon, *Arisaema dracontium*  
Tall ironweed, *Vernonia altissima*  
Redbud, *Cercis canadensis*  
Wild lupine, *Lupinus perennis*  
One-sided pyrola, *Orthilia secunda*  
Swamp rose mallow, *Hibiscus palustris*  
Appendaged waterleaf, *Hydrophyllum appendiculatum*  
Wild ginseng, *Panax quinquefolius*  
Trumpet creeper, *Campsis radicans*

Rice's project also included species that were present naturally in the sanctuaries. It is difficult to interpret the remaining notes in the Gardens' archives. I have indicated in the checklist when the provenance of a particular species is uncertain.

Wetland plantings resumed in the 1990s, as part of the Project Paradise wetland restoration program lead by Len Simser. Under Project Paradise, seeds and rootstock from wetland plant populations in Cootes Paradise and Hendrie Valley were used to establish nursery stock. This stock has been planted in areas of those wetlands as part of ongoing restoration efforts. Since the stock originally came from the Gardens' sanctuaries this program does not materially affect the flora. However, there are three exceptions: pickerel weed from Haliburton, Ontario; hard-stem bulrush from northern Hamilton; and wild rice (*Zizania palustris*) from Rondeau have been included in this program. The results of Project Paradise on the vegetation of Cootes Paradise and Hendrie Valley are published elsewhere (Lundholm and Simser, 1999; Smith, 2000b; Smith, Lundholm, and Simser, 2001).

In addition to formal restoration and management programs, Gardens' staff have in the past planted surplus nursery stock in the sanctuaries. This is particularly noticeable in the area around the Rock Chapel parking lot where a number of unusual exotic species are found. These plants have not been included in the checklist.

## NOMENCLATURAL NOTES

Nomenclature follows the Ontario Plant List (OPL) (Newmaster et al., 1998) with the following exceptions:

In several instances the treatment in the OPL differs from that of Gleason and Cronquist (1991) and recent literature, particularly in the application of ranks below the species level. In these cases I have omitted the subspecies or variety, with notes following the entry in the checklist. For *Crataegus* I have relied entirely on the determinations of Dr. Phipps and Dr. Pringle, and I did not attempt to apply the synonyms provided in the OPL. I have followed the Flora of North America (Flora of North America Editorial Committee, 2002) for Cyperaceae, dividing the bulrushes (*Scirpus* s.l.) into four segregate genera, *Scirpus*, *Bulboschoenus*, *Trichophorum*, and *Schoenoplectus*. In many cases I have used different common names than those given in the OPL to reflect local use.

The following species have been collected in the Gardens' sanctuaries, but are not believed to have established self-perpetuating populations and have not been included in the checklist. This list is somewhat subjective and further observations may change the status of these species:

<i>Acer pseudo-platanus</i>	<i>Hibiscus moscheutos</i>	<i>Nepeta mussinii</i>
<i>Aquilegia vulgaris</i>	<i>Iris sibirica</i>	<i>Physalis alkekengi</i>
<i>Aurinia saxatilis</i>	<i>Lathyrus odoratus</i>	<i>Populus X jackii</i>
<i>Euphorbia marginata</i>	<i>Lunaria annua</i>	<i>Sedum spurium</i>
<i>Dianthus deltoides</i>	<i>Lychnis chalcedonica</i>	<i>Verbascum nigrum</i>
<i>Filipendula ulmaria</i>	<i>Lycium barbarum</i>	
<i>Gypsophila paniculata</i>	<i>Macleaya cordata</i>	

The following species have been planted in the sanctuaries in locations some distance from cultivated collections, and may be mistaken for spontaneous populations:

<i>Aesculus glabra</i>	<i>Platanus occidentalis</i>	<i>Stylophorum diphyllum</i>
<i>Dirca palustris</i>	<i>Quercus robur</i>	<i>Tilia cordata</i>
<i>Magnolia tripetala</i>	<i>Quercus palustris</i>	<i>Carex grayi</i>

The checklist contains only species for which the Gardens has records, either in the herbarium or from documented sightings. The following additional species are reported from the Gardens' sanctuaries in the Hamilton Conservation Authority database:

<i>Anagallis arvensis</i>	<i>Elymus villosus</i>	<i>Setaria faberi</i>
<i>Bidens discoidea</i>	<i>Eragrostis pectinacea</i>	<i>Solanum nigrum</i>
<i>Digitaria ischaemum</i>	<i>Lithospermum officinale</i>	

An index to families and genera follows the body of the checklist.

## SYMBOLS

### STATUS

- + Exotic Species
- X Extirpated Species
- \* Rare on RBG Properties
- N New since 1969
- P Planted
- ? Uncertain
- H Historic Records—species documented prior to 1969 but not included in Pringle (1969)

### LOCATION

- CP Cootes Paradise
- HV Hendrie Valley
- RC Rock Chapel
- BT Berry Tract
- R Roadsides
- W Waste Places

### PROVINCIAL RARITY RANKINGS

- S1 Extremely Rare
- S2 Very Rare
- S3 Rare
- S4 Uncommon
- S5 Common
- SE Exotic

## CHECKLIST OF THE SPONTANEOUS FLORA OF ROYAL BOTANICAL GARDENS' NATURE SANCTUARIES

Clubmoss family		<b>Lycopodiaceae</b>	
<i>Diphasiastrum digitatum</i> (Dill. ex A. Braun) Holub			
X Ground-cedar		S5	CP
<i>[Lycopodium flabelliforme</i> (Fern.) Blanch; <i>Lycopodium digitatum</i> Dill.]			
<i>Huperzia lucidula</i> (Michx.) Trevis.			
X Shining clubmoss		S5	CP
<i>[Lycopodium lucidulum</i> Michx.]			
<i>Lycopodium dendroideum</i> Michx.			
X Ground-pine		S5	CP
No specimens.			
Spike-moss family		<b>Selaginellaceae</b>	
<i>Selaginella eclipses</i> W.R. Buck			
X Meadow spike-moss		S4	CP
[ <i>S. apoda</i> (L.) Fern.]			
Horsetail family		<b>Equisetaceae</b>	
<i>Equisetum arvense</i> L.			
Field horsetail		S5	CP HV RC BT R
<i>Equisetum fluviatile</i> L.			
Water horsetail		S5	CP HV
<i>Equisetum hyemale</i> L. ssp. <i>affine</i> (Engelm.) Calder & Roy			
Large scouring-rush		S5	CP HV
<i>Equisetum palustre</i> L.			
H Marsh horsetail		S5	CP
<i>Equisetum scirpoides</i> Michx.			
H Dwarf scouring-rush		S5	CP

Equisetum sylvaticum L.				The Thelypteridaceae			
H Woodland horsetail	S5	CP HV					
<i>Equisetum variegatum</i> Schleich. ex Fried., Weber & Mohr ssp. <i>variegatum</i>				<i>Phegopteris connectilis</i> (Michx.) Watt			
H Variegated horsetail	S5	CP		X Northern beech fern	S5	CP	
<i>Equisetum X litorale</i> Kuhl. ex Rupr.				<i>Phegopteris hexagonoptera</i> (Michx.) Fée			
H Shore horsetail [ <i>E. arvense</i> X <i>E. fluviatile</i> ]	S2?	CP HV		X Broad beech fern	S3	CP	
Adder's tongue family				<i>[Thelypteris hexagonoptera</i> (Michx.) Weatherby]			
<i>Botrychium dissectum</i> Spreng.				Listed as special concern by COSEWIC.			
* Cut-leaved grape fern	S5	CP		<i>Thelypteris noveboracensis</i> (L.) Nieuwl.			
<i>Botrychium virginianum</i> (L.) Swartz				* New York fern	S4S5	CP	
Rattlesnake fern	S5	CP HV RC		<i>Thelypteris palustris</i> Schott var. <i>pubescens</i> (Lawson) Fern.			
Royal fern family				Marsh fern	S5	CP HV	
<i>Osmunda cinnamomea</i> L.				Spleenwort family			
Cinnamon fern	S5	HV		<i>Asplenium platyneuron</i> (L.) Oakes ex Eaton			
<i>Osmunda claytoniana</i> L.				N Ebony spleenwort	S4	CP BT	
Interrupted fern	S5	CP HV		Voucher photographs of plants at Berry Tract (1999) and Cootes Paradise (2000) taken.			
<i>Osmunda regalis</i> L. var. <i>spectabilis</i> (Willd.) A. Gray				<i>Asplenium rhizophyllum</i> L.			
X Royal fern	S5	CP		X Walking fern	S4	RC	
Maidenhair fern family				No specimens. Appropriate habitat occurs at Rock Chapel, but recent searches have failed to locate this species.			
<i>Adiantum pedatum</i> L.				<i>Dryopteridaceae</i>			
Maidenhair fern	S5	CP HV RC		<i>Athyrium filix-femina</i> (L.) Roth var. <i>angustum</i> (Willd.) G. Lawson			
Bracken fern family				Lady fern	S5	CP HV	
<i>Dennstaedtia punctilobula</i> (Michx.) T. Moore				<i>Cystopteris bulbifera</i> (L.) Bernh.			
* Hay-scented fern	S5	CP		Bulblet fern	S5	CP HV RC	
<i>Pteridium aquilinum</i> (L.) Kuhn var. <i>latiusculum</i> (Desv.) Underw.				<i>Cystopteris tenuis</i> (Michx.) Desv.			
Bracken	S5	CP HV		Mackay's fragile fern	S5	CP HV	
				[ <i>C. fragilis</i> (L.) Bernh. var. <i>mackayi</i> Lawson]			

<i>Deparia acrostichoides</i> (Swartz) M. Kato H Silvery glade fern	S4	CP HV	<i>Onoclea sensibilis</i> L. Sensitive fern	S5	CP HV
[ <i>Athyrium thelypteroides</i> (Michx.) Desv.]			<i>Polystichum acrostichoides</i> (Michx.) Schott Christmas fern	S5	CP
Specimens collected in 1957 from Cootes Paradise and Hendrie Valley were not included in the first checklist. Rediscovered in Cootes Paradise in 2000.					
<i>Dryopteris carthusiana</i> (Vill.) H.P. Fuchs Spinulose wood fern	S5	CP HV RC	<b>Polypody family</b>	<b>Polypodiaceae</b>	
<i>Dryopteris clintoniana</i> (D.C. Eaton) Dowell Clinton's wood fern	S4	CP	<i>Polyodium virginianum</i> L. ? Rock polypody fern	S5	CP
<i>Dryopteris cristata</i> (L.) A. Gray Crested wood fern	S5	CP HV	No specimens.		
Known to persist only at a single location on the south shore of Cootes Paradise.					
<i>Dryopteris filix-mas</i> (L.) Schott N Male-fern	S4	RC	<b>Floating fern family</b>	<b>Azollaceae</b>	
A single plant was found in 1999, and its provenance is uncertain. If it is a spontaneous occurrence it is the southernmost location for this species in Ontario.			<i>Azolla caroliniana</i> Willd. N Mosquito fern	S1	CP HV
<i>Dryopteris intermedia</i> (Muhlenb. ex Willd.) A. Gray Evergreen wood fern	S5	CP	Plants first collected at the RBG aquatic plant nursery in 2000. By 2002 it was abundant on mudflats in Grindstone Creek and Cootes Paradise. Tentative identification requires verification.		
<i>Dryopteris marginalis</i> (L.) A. Gray Marginal wood fern	S5	CP HV			
<i>Dryopteris X triploidea</i> Wherry Hybrid wood fern [ <i>D. intermedia</i> X <i>D. carthusiana</i> ]	S3 S4	CP	<b>Pine family</b>	<b>Pinaceae</b>	
<i>Gymnocarpium dryopteris</i> (L.) Newman X Oak fern	S5	CP	<i>Larix decidua</i> Miller +P European larch	SE2	HV
[ <i>Carpogynium dryopteris</i> (L.) Love & Love var. <i>dryopteris</i> ]			<i>Larix laricina</i> (Du Roi) K. Koch Tamarack	S5	CP HV
<i>Matteuccia struthiopteris</i> (L.) Tod. var. <i>pensylvanica</i> (Willd.) Morton Ostrich fern	S5	CP HV	Planted and natural populations. Most or all of the persisting plants are planted.		
			<i>Pinus banksiana</i> Lamb. +P Jack pine	S5	CP
			<i>Pinus resinosa</i> Sol. ex Aiton +P Red pine	S5	CP
			<i>Pinus strobus</i> L. Eastern white pine	S5	CP HV RC
			While the three species above are native in Ontario, only <i>Pinus strobus</i> occurs naturally in RBG sanctuaries.		
			<i>Tsuga canadensis</i> (L.) Carrière Eastern hemlock	S5	CP RC

Cedar family		<b>Cupressaceae</b>			
<i>Juniperus virginiana</i> L.					
Eastern red cedar	S5	CP HV RC			
<i>Thuja occidentalis</i> L.					
Eastern white cedar	S5	CP RC			
Yew family		<b>Taxaceae</b>			
<i>Taxus canadensis</i> Marshall					
American yew	S5	CP RC			
Magnolia family		<b>Magnoliaceae</b>			
<i>Liriodendron tulipifera</i> L.					
Tulip tree	S4	CP			
Planted and natural populations. Mature wild trees persist on the south shore of Cootes Paradise.					
Laurel family		<b>Lauraceae</b>			
<i>Lindera benzoin</i> (L.) Blume					
Spicebush	S5	CP HV			
Planted in Hendrie Valley; native in Cootes Paradise.					
<i>Sassafras albidum</i> (Nutt.) Nees					
Sassafras	S4	CP HV RC			
Duchman's-pipe family		<b>Aristolochiaceae</b>			
<i>Asarum canadense</i> L.					
Wild ginger	S5	CP HV RC BT			
Water-lily family		<b>Nymphaeaceae</b>			
<i>Nuphar advena</i> (Aiton) Aiton f.					
* Large yellow pond-lily	S3	CP			
<i>Nuphar variegata</i> Durand in Clinton					
Spatterdock	S5	CP HV			
<i>Nymphaea odorata</i> Aiton					
White water-lily			S5	CP HV	
[ <i>N. tuberosa</i> Paine.]					
Material propagated from local populations has been widely planted throughout Cootes Paradise and Hendrie Valley.					
Hornwort family			<b>Ceratophyllaceae</b>		
<i>Ceratophyllum demersum</i> L.					
Coontail			S5	CP HV	
Crowfoot or buttercup family			<b>Ranunculaceae</b>		
<i>Actaea pachypoda</i> Elliott					
Doll's eyes			S5	CP HV RC	
<i>Actaea rubra</i> (Aiton) Willd.					
Red baneberry			S5	CP HV RC	
<i>Actaea X ludoviciana</i> B. Boivin					
? Hybrid baneberry			S1	CP	
No specimens.					
<i>Anemone acutiloba</i> (DC.) G. Lawson					
Sharp-lobed hepatica			S5	CP HV RC BT	
[ <i>Hepatica acutiloba</i> DC.]					
<i>Anemone americana</i> (DC.) H. Hara					
Round-lobed hepatica			S5	CP HV RC	
[ <i>Hepatica americana</i> [DC.] Ker.]					
<i>Anemone canadensis</i> L.					
Canada anemone			S5	CP HV	
<i>Anemone cylindrica</i> A. Gray					
Thimbleweed			S4	CP	
<i>Anemone quinquefolia</i> L. var. <i>quinquefolia</i>					
Wood anemone			S5	CP HV RC BT	

<i>Anemone virginiana</i> L.					
Thimbleweed	S5	CP HV RC R			
[Some specimens have been referred to <i>A. virginiana</i> L. var. <i>alba</i> (Oakes) A.W. Wood (synonym <i>A. riparia</i> Fern.). This variety is recognized in the OPL but it has been included within <i>A. virginiana</i> L. by most other recent authors.]					
<i>Aquilegia canadensis</i> L.					
Wild columbine	S5	CP HV RC BT			
<i>Caltha palustris</i> L.					
Marsh-marigold	S5	CP HV BT			
<i>Clematis occidentalis</i> (Hornem.) DC. var. <i>occidentalis</i>					
X Purple clematis	S4S5	RC			
<i>Clematis virginiana</i> L.					
Virgin's-bower	S5	CP HV RC			
<i>Ranunculus abortivus</i> L.					
Small-flowered crowfoot	S5	CP HV RC BT			
<i>Ranunculus acris</i> L.					
+ Tall buttercup	SE5	CP HV RC BT R			
<i>Ranunculus fascicularis</i> Muhlenb. ex Bigelow					
* Early buttercup	S4	CP HV			
<i>Ranunculus ficaria</i> L.					
+N Lesser celandine	SE1	CP HV			
<i>Ranunculus flabellaris</i> Raf.					
Yellow water-crowfoot	S4?	CP			
All specimens referred to <i>R. gmelinii</i> DC. lack flowers and cannot be verified.					
<i>Ranunculus hispidus</i> Michx. var. <i>caricetorum</i> (Greene) T. Duncan					
* Swamp buttercup	S5	CP HV			
[ <i>Ranunculus septentrionalis</i> Poir.]					
<i>Ranunculus hispidus</i> Michx. var. <i>hispidus</i>					
Hispid buttercup	S3	CP HV RC			
[Including <i>R. hispidus</i> Michx. var. <i>marilandicus</i> (Poir.) Benson]					
<i>Ranunculus pensylvanicus</i> L. f.					
Bristly buttercup	S5	CP HV			
<i>Ranunculus recurvatus</i> Poir. var. <i>recurvatus</i>					
Hooked buttercup	S5	CP HV RC			
<i>Ranunculus repens</i> L.					
+ Creeping buttercup	SE5	CP HV			
<i>Ranunculus sceleratus</i> L. var. <i>sceleratus</i>					
Cursed crowfoot	S5	CP HV BT			
<i>Thalictrum dioicum</i> L.					
Early meadow-rue	S5	CP HV RC BT			
<i>Thalictrum pubescens</i> Pursh					
Tall meadow-rue	S5	CP HV			
<i>Thalictrum thalictroides</i> (L.) A.J. Eames & B. Boivin					
Rue-anemone	S3	CP HV			
[ <i>Anemonella thalictroides</i> (L.) Spach]					
<b>Barberry family</b>				<b>Berberidaceae</b>	
<i>Berberis thunbergii</i> DC.					
+ Japanese barberry	SE5	CP			
<i>Berberis vulgaris</i> L.					
+ Common barberry	SE5	CP HV RC BT R			
<i>Caulophyllum giganteum</i> (Farw.) Leconte & Blackwell					
Blue cohosh	S5	CP HV RC BT			
[ <i>C. thalictroides</i> (L.) Michx. var. <i>giganteum</i> Farw.]					
<i>Podophyllum peltatum</i> L.					
May-apple	S5	CP HV RC BT			

Moonseed family	Menispermaceae		
<i>Menispermum canadense</i> L.			
Moonseed	S4	RC	
Poppy family	Papaveraceae		
<i>Chelidonium majus</i> L.			
+ Celandine	SE5	CP HV RC BT	
<i>Papaver dubium</i> L.			
+ Long-headed poppy	SE1	CP	
<i>Papaver orientale</i> L.			
+ Oriental poppy	SE1	R W	
Including specimens previously identified as <i>P. somniferum</i> L.			
<i>Papaver rhoeas</i> L.			
+ Corn poppy	SE1	R	
<i>Sanguinaria canadensis</i> L.			
Bloodroot	S5	CP HV RC BT	
Witch-hazel family	Hamamelidaceae		
<i>Hamamelis virginiana</i> L.			
Witch-hazel	S5	CP HV RC	
Elm family	Ulmaceae		
<i>Celtis occidentalis</i> L.			
N Hackberry	S4	CP RC	
<i>Ulmus americana</i> L.			
White elm	S5	CP HV RC BT R	
<i>Ulmus rubra</i> Muhlenb.			
Slippery elm	S5	CP	
Hemp family	Cannabaceae		
<i>Cannabis sativa</i> L.			
+P Marijuana	SE1	CP HV BT	
Occasionally planted illegally on the property; removed by RBG staff.			
<i>Humulus japonicus</i> Siebold & Zucc.			
+N Japanese hops		SE3	W
Mulberry family	Moraceae		
<i>Morus alba</i> L.			
+ White mulberry		SE5	CP HV RC BT R
<i>Morus rubra</i> L.			
Red mulberry		S2	RC BT
Listed as threatened by COSEWIC. Hybrid <i>M. rubra</i> X <i>M. alba</i> have been documented at Rock Chapel and Berry Tract.			
Nettle family	Urticaceae		
<i>Boehmeria cylindrica</i> (L.) Sw.			
False nettle		S5	CP HV
<i>Laportea canadensis</i> (L.) Wedd.			
Wood nettle		S5	CP HV
<i>Pilea pumila</i> (L.) A. Gray			
Clearweed		S5	CP HV RC
<i>Urtica dioica</i> L. ssp. <i>dioica</i>			
+ European stinging nettle		SE2	CP
<i>Urtica dioica</i> L. ssp. <i>gracilis</i> (Aiton) Selander			
American stinging nettle		S5	CP HV RC
Walnut family	Juglandaceae		
<i>Carya cordiformis</i> (Wangenh.) K. Koch			
Bitternut hickory		S5	CP HV RC R
<i>Carya glabra</i> (Miller) Sweet			
Pignut hickory		S3	CP HV RC R
[ <i>C. ovalis</i> (Wang.) Sarg.]			
<i>Carya ovata</i> (Miller) K. Koch var. <i>ovata</i>			
Shagbark hickory		S5	CP R

<i>Juglans cinerea</i> L. Butternut	S4	CP RC	<i>Betula papyrifera</i> Marshall White birch	S5	CP HV RC
<i>Juglans nigra</i> L. Black walnut	S4	CP HV RC BT	[Including three 1955 collections first identified as <i>B. cordifolia</i> .]		
<b>Beech family</b>		<b>Fagaceae</b>	<i>Betula pendula</i> Roth +* European weeping birch	SE4	RC
<i>Castanea dentata</i> (Marshall) Borkh. American chestnut	S3	CP	Could be planted.		
Listed as threatened by COSEWIC.			<i>Carpinus caroliniana</i> Walter ssp. <i>virginiana</i> (Marshall) Furlow Blue beech or ironwood	S5	CP RC
<i>Fagus grandifolia</i> Ehrh. American beech	S5	CP HV	<i>Corylus americana</i> Walter American hazel	S5	CP
<i>Quercus alba</i> L. White oak	S5	CP HV RC	<i>Corylus cornuta</i> Marshall ssp. <i>cornuta</i> Beaked hazel	S5	CP
<i>Quercus macrocarpa</i> Michx. Bur oak	S5	CP	<i>Ostrya virginiana</i> (Miller) K. Koch Hop hornbeam or ironwood	S5	CP HV RC
<i>Quercus muehlenbergii</i> Engelm. Chinquapin oak	S4	CP HV RC BT	<b>Four-o-clock family</b>		<b>Nyctaginaceae</b>
<i>Quercus rubra</i> L. Red oak	S5	CP HV RC BT	<i>Mirabilis nyctaginea</i> (Michx.) MacMill. + Heart-leaved umbrella-wort	SE4	R
<i>Quercus velutina</i> Lam. Black oak	S4	CP HV RC	<b>Goosefoot family</b>		<b>Chenopodiaceae</b>
<b>Birch family</b>		<b>Betulaceae</b>	<i>Atriplex patula</i> L. Spreading atriplex	S5	CP R W
<i>Alnus glutinosa</i> (L.) Gaertn. +N European black alder	SE4	CP	[Including all specimens previously identified as <i>A. hastata</i> L. and <i>A. littoralis</i> L.]		
No specimens.			<i>Atriplex prostrata</i> Boucher ex DC. Spear-leaved orache	S5	CP R W
<i>Alnus incana</i> (L.) Moench spp. <i>rugosa</i> (Du Roi) Clausen Speckled alder	S5	CP	<i>Chenopodium album</i> L. var. <i>album</i> + Lamb's quarters	SE5	CP R W
<i>Betula alleghaniensis</i> Britton Yellow birch	S5	CP HV	<i>Chenopodium botrys</i> L. +H Jerusalem-oak	SE4	HV W

<i>Chenopodium capitatum</i> (L.) Asch.					
N Strawberry-blite	S5	CP			
<i>Chenopodium glaucum</i> L. ssp. <i>glaucum</i>					
+ Oak-leaved goosefoot	SE5	CP R W			
<i>Chenopodium simplex</i> (Torr.) Raf.					
Maple-leaved goosefoot	S5	CP HV RC BT R			
[ <i>C. hybridum</i> L. var. <i>gigantospermum</i> (Aellen) Rouleau, and including specimens previously misidentified as <i>C. murale</i> .]					
<i>Chenopodium urbicum</i> L.					
+H City goosefoot	SE1	CP			
<i>Kochia scoparia</i> (L.) Roth ex Schrad.					
+ Summer cypress	SE5	R			
<i>Salsola tragus</i> L.					
+ Russian thistle	SE5	R			
[Including all specimens previously identified as <i>S. kali</i> L.]					
<b>Amaranth family</b>		<b>Amaranthaceae</b>			
<i>Amaranthus albus</i> L.					
+ White tumbleweed	SE5	CP R W			
<i>Amaranthus blitoides</i> S. Watson					
+ Prostrate amaranth	SE4?	CP R W			
[ <i>A. graecizans</i> L.]					
<i>Amaranthus powelli</i> S. Watson					
+ Powell's amaranth	SE5	R W			
<i>Amaranthus retroflexus</i> L.					
+ Red-root pigweed	SE5	HV R W			
<i>Amaranthus lividus</i> L.					
N? Purplish amaranth	SEH	W			
<b>Purslane family</b>					
<i>Claytonia caroliniana</i> Michx.					
* Carolina spring beauty			S5	HV	
<i>Claytonia virginica</i> L.					
Virginia spring beauty			S5	CP HV RC	
<i>Portulaca oleracea</i> L.					
+ Purslane			SE5	R W	
<b>Pink family</b>					
<b>Caryophyllaceae</b>					
<i>Arenaria serpyllifolia</i> L.					
+ Thyme-leaved sandwort			SE5	CP RC R	
<i>Cerastium arvense</i> L. ssp. <i>strictum</i> (Haenke) Gaudin					
Field chickweed			S4	R	
[ <i>C. arvense</i> L. var. <i>viscidulum</i> Gremlj]					
<i>Cerastium fontanum</i> Baumg.					
+ Mouse-ear chickweed			SE5	CP HV RC BT R	
[ <i>C. vulgatum</i> L. var. <i>vulgatum</i> ]					
<i>Cerastium nutans</i> Raf.					
Nodding chickweed			S4	CP RC	
<i>Cerastium pumilum</i> Curtis					
+N Dwarf chickweed			SE2	W	
<i>Cerastium semidecandrum</i> L.					
+N Chickweed			SE	R W	
Originally collected by Tamsalu in the 1950s but misidentified.					
<i>Cerastium tomentosum</i> L.					
+ Snow-in-summer			SE2	R	
<i>Dianthus armeria</i> L.					
+ Deptford pink			SE5	CP HV RC BT R	
<i>Holosteum umbellatum</i> L.					
+N Jagged chickweed			SE2	HV R	

<i>Lychnis coronaria</i> (L.) Desr. + Mullein pink	SE3	CP	<i>Stellaria media</i> (L.) Vill. +N Common chickweed	SE5	CP RC R W
<i>Moehringia lateriflora</i> (L.) Fenzl Blunt-leaved sandwort [ <i>Arenaria lateriflora</i> L.]	S5	CP	Smartweed or buckwheat		<b>Polygonaceae</b>
<i>Sagina procumbens</i> L. +N Bird's-eye	SE4	W	<i>Fagopyrum esculentum</i> Moench + Buckwheat [ <i>F. sagittatum</i> Gilib.]	SE3	CP
<i>Saponaria officinalis</i> L. + Bouncing-bet	SE5	R	<i>Polygonum achoreum</i> Blake Knotweed	S5	R
<i>Silene antirrhina</i> L. Sleepy catchfly	S5	CP R	<i>Polygonum amphibium</i> L. Water smartweed [Including <i>P. coccineum</i> Muhl.]	S5	CP HV
<i>Silene latifolia</i> Poir. + White campion [ <i>S. dioica</i> (L.) Clairv.]	SE5	CP HV R	<i>Polygonum arifolium</i> L. H Halberd-leaved tearthumb	S3	CP
<i>Silene noctiflora</i> L. +N Night-flowering catchfly	SE5	CP HV RC	<i>Polygonum aviculare</i> L. + Prostrate knotweed	SE5	CP HV BT R W
<i>Silene vulgaris</i> (Moench) Garcke + Bladder campion [ <i>S. cucubalus</i> Wibel.]	SE5	HV RC R	<i>Polygonum convolvulus</i> L. + Black bindweed	SE5	CP HV RC R
<i>Spergularia rubra</i> (L.) J. & C. Presl +* Red sand spurrey No specimens.	SE3?	W	<i>Polygonum cuspidatum</i> Siebold & Zucc. +N Japanese knotweed A large clone has established on the north shore of Hendrie Valley.	SE4	CP HV
<i>Stellaria graminea</i> L. + Grass-leaved stitchwort	SE5	CP RC	<i>Polygonum hydropiper</i> L. + Water-pepper	SE5	CP RC BT
<i>Stellaria longifolia</i> Muhlenb. ex Willd. Long-leaved stitchwort	S5	CP	<i>Polygonum hydropiperoides</i> Michx. Mild water-pepper	S5	CP RC
<i>Stellaria longipes</i> Goldie Long-stalked chickweed	S5	CP	<i>Polygonum lapathifolium</i> L. Pale smartweed	S5	CP HV R
			<i>Polygonum pensylvanicum</i> L. Lady's-thumb	S5	CP

<i>Polygonum persicaria</i> L. + Lady's-thumb [Including <i>P. dubium</i> Stein.]	SE5	CP BT R	St. John's-wort family	Clusiaceae
<i>Polygonum punctatum</i> Elliott Water smartweed	S5	CP	<i>Hypericum perforatum</i> L. + Common St. John's-wort	SE5 CP HV RC BT R
<i>Polygonum ramosissimum</i> Michx. H Bushy knotweed	S4	R W	<i>Hypericum punctatum</i> Lam. Spotted St. John's-wort	S5 CP HV
<i>Polygonum sagittatum</i> L. Arrow-leaved tearthumb	S4	CP	Linden family	Tiliaceae
<i>Polygonum scabrum</i> Moench + Green smartweed [Including most specimens previously identified as <i>P. pensylvanicum</i> L. var. <i>laevigatum</i> ]	SEU	CP	<i>Tilia americana</i> L. Basswood	S5 CP RC BT
<i>Polygonum scandens</i> L. Climbing false buckwheat	S4S5	CP	Mallow family	Malvaceae
<i>Polygonum virginianum</i> L. Jumpseed [ <i>Tovara virginianum</i> (L.) Raf.]	S4	CP HV	<i>Abutilon theophrasti</i> Medik. + Velvet-leaf	SE5 CP R
<i>Rumex acetosella</i> L. ssp. <i>acetosella</i> + Sheep sorrel	SEU	CP HV RC R W	<i>Alcea rosea</i> L. + Hollyhock [ <i>Althaea rosea</i> Cav.]	SE4 R
<i>Rumex crispus</i> L. + Curled dock	SE5	CP HV RC BT R	<i>Malva moschata</i> L. + Musk mallow	SE5 RC
<i>Rumex obtusifolius</i> L. ssp. <i>obtusifolius</i> + Bitter dock	SE5	CP	<i>Malva neglecta</i> Wallr. + Cheeses	SE5 R W
<i>Rumex orbiculatus</i> A. Gray Great water dock	S4S5	CP	Rock-rose family	Cistaceae
<i>Rumex verticillatus</i> L. Swamp dock	S4	CP	<i>Helianthemum canadense</i> (L.) Michx. X Long-branched frostweed	S4 CP
			<i>Lechea intermedia</i> Legg. Pinweed [All specimens of <i>L. minor</i> L. have been referred to <i>L. intermedia</i> ]	S4 CP
			Violet family	Violaceae
			<i>Hybanthus concolor</i> (T.F. Forst.) Spreng. Green violet	S2 RC
			The identity of specimens of stemless blue violets ( <i>Viola sororia</i> etc.), as well as those specimens reported here as <i>V. conspersa</i> , are not clear.	

<i>Viola affinis</i> J. Le Conte * Le Conte's Violet	S4?	CP HV	<i>Viola septentrionalis</i> Greene * Northern Blue Violet	SU	CP
<i>Viola arvensis</i> Murray + Field pansy	SE4	RC	<i>Viola sororia</i> Willd. Woolly blue violet	S5	CP HV RC BT
<i>Viola blanda</i> Willd. Sweet white violet [ <i>V. incognita</i> Brain., including specimens misidentified as <i>V. renifolia</i> Gray]	S4S5	CP	[Including <i>V. papilionacea</i> Pursh, as well as specimens identified as <i>V. novae-angliae</i> House]		
<i>Viola canadensis</i> L. Canada violet	S5	RC	<i>Viola tricolor</i> L. + Johnny-jump-up	SE2	R
<i>Viola conspersa</i> Reichb. American dog violet [Including specimens identified as <i>V. adunca</i> Sm. and <i>V. striata</i> Ait.]	S5	CP	<b>Gourd family</b>		<b>Cucurbitaceae</b>
<i>Viola cucullata</i> Aiton * Marsh blue violet	S5	CP	<i>Echinocystis lobata</i> (Michx.) Torr. & A. Gray Wild cucumber	S5	CP HV
<i>Viola macloskeyi</i> F.E. Lloyd ssp. <i>pallens</i> (Banks ex DC.) M. Baker H Macloskey's violet Collected in 1945 and rediscovered in 1999.	S5	CP	<i>Sicyos angulatus</i> L. One-seeded bur-cucumber	S5	CP
<i>Viola nephrophylla</i> Greene * Northern bog violet	S4	CP	<b>Willow family</b>		<b>Salicaceae</b>
<i>Viola odorata</i> L. + Sweet violet	SE2	CP	<i>Populus alba</i> L. + White poplar	SE5	R
<i>Viola pubescens</i> Aiton Downy yellow violet	S5	CP HV RC	<i>Populus balsamifera</i> L. ssp. <i>balsamifera</i> Balsam poplar	S5	CP HV R
<i>Viola rostrata</i> Pursh * Long-spurred violet	S5	CP	<i>Populus deltoides</i> Bartram ex Marshall ssp. <i>deltoides</i> Eastern cottonwood	SU	CP HV RC R
<i>Viola sagittata</i> Aiton var. <i>ovata</i> (Nutt.) Torr. & A. Gray * Arrow-leaved violet [ <i>V. fimbriatula</i> Sm.]	S4	CP HV	<i>Populus grandidentata</i> Michx. Large-tooth aspen	S5	CP HV RC R
			<i>Populus nigra</i> L. + Lombardy poplar	SE4	R
			<i>Populus tremuloides</i> Michx. Trembling aspen	S5	CP HV RC R
			<i>Populus X canescens</i> (Aiton) Sm. + Gray poplar	SE1	R

<i>Salix alba</i> L. + White willow	SE4	CP R	<i>Salix pentandra</i> L. + Bay-leaved willow	SE2	CP
<i>Salix amygdaloides</i> Anderss. Peach-leaved willow	S5	CP	<i>Salix petiolaris</i> Sm. Slender willow	S5	CP
<i>Salix bebbiana</i> Sarg. Bebb's willow	S5	CP	<i>Salix purpurea</i> L. +H Basket willow	SE4	CP HV
<i>Salix cordata</i> Michx. H Heart-leaf willow	S4S5	CP	Numerous collections from the 1950s, and recollected in 1999.		
<i>Salix discolor</i> Muhlenb. Pussy willow	S5	CP HV R	<i>Salix X rubens</i> Schrank +N Reddish willow	SE4	HV
<i>Salix eriocephala</i> Michx. Missouri willow [ <i>S. rigida</i> Muhl.]	S5	CP HV RC R	<i>Salix X sepulcralis</i> Simonk. +H Hybrid willow	SE2	CP HV
<i>Salix exigua</i> Nutt. Sandbar willow [ <i>S. interior</i> Rowlee]	S5	CP RC R	<b>Caper family</b>	<b>Capparidaceae</b>	
<i>Salix fragilis</i> L. + Crack willow	SE5	CP R	<i>Cleome hassleriana</i> Chodat + Cleome	SE1	W
<i>Salix humilis</i> Marshall Upland willow [Including specimens misidentified as <i>S. candida</i> Fluegge]	S5	CP HV	<i>Polanisia dodecandra</i> (L.) DC. Clammyweed	S4	R
<i>Salix lucida</i> Muhlenb. Shining willow	S5	R	<b>Mustard family</b>	<b>Brassicaceae</b>	
<i>Salix myricoides</i> Muhlenb. H Blue-leaved willow	S3	CP	<i>Alliaria petiolata</i> (M. Bieb.) Cavara & Grande + Garlic mustard	SE5	CP HV RC
<i>Salix nigra</i> Marshall Black willow	S4?	CP HV R	[ <i>A. officinalis</i> Andrz.]		
			<i>Alyssum alyssoides</i> (L.) L. + Yellow alyssum	SE5	R
			<i>Arabidopsis thaliana</i> (L.) Heynh. + Mouse-ear cress	SE5	W
			<i>Arabis alpina</i> L. ssp. <i>caucasica</i> (Schlect. ex Willd.) Briq. +H Alpine rock-cress	SE2	
			A single collection from "shore," 1948, originally identified as <i>A. lyrata</i> L.		

<i>Arabis canadensis</i> L. Sicklepod	S4	CP RC	<i>Camelina sativa</i> (L.) Crantz + Gold-of-pleasure	SE3	CP
<i>Arabis divaricarpa</i> A. Nelson var. <i>divaricarpa</i> Spreading rock-cress	S5	RC	<i>Capsella bursa-pastoris</i> (L.) Medik. + Shepherd's purse	SE5	CP HV RC R W
<i>Arabis hirsuta</i> (L.) Scop. ssp. <i>adpressipilis</i> (M. Hopk.) Hultén Hairy rock-cress	S1	CP RC	<i>Cardamine bulbosa</i> (Schreb. ex Muhlenb.) B.S.P. Bulbous cress	S4	HV
[Including four specimens previously misidentified as <i>A. hirsuta</i> ssp. <i>pycnocarpa</i> ]			<i>Cardamine concatenata</i> (Michx.) Schwein. Cut-leaved toothwort [ <i>Dentaria laciniata</i> Muhl.]	S5	CP HV RC
<i>Arabis laevigata</i> (Muhlenb. ex Willd.) Poir. N Smooth rock-cress	S5	CP	<i>Cardamine diphylla</i> (Michx.) Alph. Wood Common toothwort [ <i>Dentaria diphylla</i> Michx.]	S5	CP HV
<i>Armoracia rusticana</i> (Lam.) P. Gaertn., Meyer & Scherb. + Horseradish	SE4	HV W	<i>Cardamine douglassii</i> Britton Purple cress	S4	CP HV
An occasional weed, probably not fully naturalized.			<i>Cardamine hirsuta</i> L. +N Hairy bitter-cress	SE3	W
<i>Barbarea vulgaris</i> R. Br. + Yellow rocket	SE5	CP HV RC BT R	<i>Cardamine impatiens</i> L. +N Cardamine	SE1	CP
<i>Berteroa incana</i> (L.) DC. + Hoary alyssum	SE5	HV R W	<i>Cardamine pensylvanica</i> Muhlenb. ex Willd. Pennsylvania bitter-cress [All RBG collections of <i>C. pratensis</i> L. are misidentifications, mostly referable to <i>C. pensylvanica</i> .]	S5	CP HV
<i>Brassica juncea</i> (L.) Czern. + Indian mustard	SE5	CP W	<i>Coronopus didymus</i> (L.) J.E.Sm. +N Lesser wart-cress	SE1	W
<i>Brassica napus</i> L. + Rape	SE1	R	<i>Descurainia sophia</i> (L.) Webb ex Prantl +N Flixweed	SE5	W
<i>Brassica nigra</i> (L.) Koch + Black mustard	SE5	CP HV	<i>Diplotaxis muralis</i> (L.) DC. +H Wall-rocket	SE1	W
<i>Brassica rapa</i> L. + Wild turnip	SE5	CP R			
<i>Camellina microcarpa</i> Andrz. ex DC. + Small-fruited false flax	SE5	CP HV R W			

<i>Diplotaxis tenuifolia</i> (L.) DC. + Slender-leaved wall-rocket	SE5	CP R	<i>Rorippa palustris</i> (L.) Besser ssp. <i>hispida</i> (Desv.) Jonsell Hispid yellow-cress	S5	CP HV
<i>Erophila verna</i> (L.) Chevall. + Whitlow-grass [ <i>Draba verna</i> L.]	SE4	W	<i>Rorippa sylvestris</i> (L.) Besser + Creeping yellow-cress	SE5	CP
<i>Eruca vesicaria</i> (L.) Cav. ssp. <i>sativa</i> (Miller) Thell. + Garden rocket [ <i>E. sativa</i> Mill.]	SE1	W	<i>Sinapis arvensis</i> L. + Charlock	SE5	CP HV R W
<i>Erucastrum gallicum</i> (Willd.) O. Schulz + Dog mustard	SE5	R	<i>Sisymbrium altissimum</i> L. + Tall tumble-mustard	SE5	CP HV R W
<i>Erysimum cheiranthoides</i> L. ssp. <i>cheiranthoides</i> + Wormseed mustard	SE5	CP HV RC R W	<i>Sisymbrium loeselii</i> L. + Tall hedge mustard	SE2	R
<i>Hesperis matronalis</i> L. + Dame's rocket	SE5	CP HV RC	<i>Sisymbrium officinale</i> (L.) Scop. + Hedge mustard	SE5	CP R W
<i>Lepidium campestre</i> (L.) R. Br. + Field cress	SE5	CP HV RC R W	<i>Thlaspi arvense</i> L. + Field penny-cress	SE5	CP HV RC R W
<i>Lepidium densiflorum</i> Schrad. + Common pepper-grass	SE5	R	<b>Heath family</b>	<b>Ericaceae</b>	
<i>Lepidium ruderale</i> L. + Narrow-leaved pepper-grass	SE3	R	<i>Gaultheria procumbens</i> L. Wintergreen	S5	CP HV RC
<i>Lepidium virginicum</i> L. Virginia pepper-grass	S5	CP R W	<i>Gaylussacia baccata</i> (Wangenh.) K. Koch Black huckleberry	S4	CP HV RC
<i>Lobularia maritima</i> (L.) Desv. +H Sweet alyssum	SE2	HV	<i>Vaccinium angustifolium</i> Aiton Low sweet blueberry	S5	CP HV RC
<i>Nasturtium microphyllum</i> (Boenn.) Reichb. + Water-cress	SE5	CP HV RC	<i>Vaccinium pallidum</i> Aiton Pale blueberry [ <i>V. vacillans</i> Kalm. ex Torr.]	S4	CP HV RC
<i>Rorippa palustris</i> (L.) Besser ssp. <i>fernaldiana</i> (Butters & Abbe) Jonsell Marsh yellow-cress	S5	CP	<b>Pyrola family</b>	<b>Pyrolaceae</b>	
			<i>Pyrola chlorantha</i> Sw. X Green-flowered pyrola [ <i>P. virens</i> Schweigg.]	S4S5	CP

<i>Pyrola elliptica</i> Nutt.					
* Shinleaf	S5	CP HV			
<b>Indian pipe family</b>		<b>Monotropaceae</b>			
<i>Monotropa uniflora</i> L. Indian-pipe	S5	CP HV RC			
<b>Primrose family</b>		<b>Primulaceae</b>			
<i>Lysimachia ciliata</i> L. Fringed loosestrife	S5	CP HV BT			
<i>Lysimachia nummularia</i> L. + Moneywort	SE5	CP HV			
<i>Lysimachia quadrifolia</i> L. * Whorled loosestrife	S4	CP HV			
<i>Lysimachia terrestris</i> (L.) B.S.P. * Swamp candles	S5	CP			
<i>Lysimachia thrysiflora</i> L. * Tufted loosestrife	S5	CP			
<i>Samolus valerandi</i> L. ssp. <i>parviflorus</i> (Raf.) Hultén N* Brookweed	S4	CP			
First collected in 1998.					
<i>Trientalis borealis</i> Raf. ssp. <i>borealis</i> * Star-flower	S5	CP HV			
<b>Hydrangea family</b>		<b>Hydrangeaceae</b>			
Several specimens of <i>Philadelphus</i> in HAM are not referable to any of the species treated in the standard manuals. Only <i>P. coronarius</i> has been collected since the 1950s; the other taxa are not known to persist.					
<i>Philadelphus coronarius</i> L. +N Philadelphia mock-orange	SE1	HV			
<i>Philadelphus pubescens</i> Loisel. + Hairy mock-orange	SE1	CP			
<b>Gooseberry or currant family</b>					<b>Grossulariaceae</b>
<i>Ribes americanum</i> Miller Wild black currant			S5	CP HV	
<i>Ribes cynosbatum</i> L. Prickly gooseberry			S5	CP RC	
<i>Ribes hirtellum</i> Michx. Smooth gooseberry			S5	CP	
<i>Ribes lacustre</i> (Pers.) Poir. Swamp black currant			S5	CP	
<i>Ribes odoratum</i> Wendl. f. + Buffalo currant			SE4	HV R	
<i>Ribes rubrum</i> L. +* Red currant [ <i>R. sativum</i> Syme]			SE5	CP HV	
<i>Ribes triste</i> Pall. H Wild red currant Historic and recent collections.			S5	CP HV	
<b>Stonecrop family</b>					<b>Crassulaceae</b>
<i>Sedum acre</i> L. + Mossy stonecrop			SE5	R	
<i>Sedum sarmentosum</i> Bunge + Stonecrop			SE1	W	
<b>Saxifrage family</b>					<b>Saxifragaceae</b>
<i>Chrysosplenium americanum</i> Schwein. * Golden saxifrage			S5	CP HV	
<i>Mitella diphylla</i> L. Mitrewort			S5	CP HV	
<i>Parnassia glauca</i> Raf. X Grass of Parnassus			S5	CP	

<i>Penthorum sedoides</i> L.				The following treatment of <i>Crataegus</i> follows Dr. Phipps's revisions of HAM collections. Except where noted with a "?" at least one voucher of each species has been annotated by Dr. Phipps or Dr. J.S.Pringle.
Ditch stonecrop	S5	CP HV		
<i>Saxifraga virginiensis</i> Michx.				
Early saxifrage	S5	CP HV RC BT		
<i>Tiarella cordifolia</i> L.				
Foamflower	S5	CP HV		
Rose family		Rosaceae		
<i>Agrimonia gryposepala</i> Wallr.				
Tall hairy agrimony	S5	CP		
<i>Agrimonia parviflora</i> Aiton				
Many-flowered agrimony	S3 S4	R		
<i>Agrimonia pubescens</i> Wallr.				
Hairy agrimony	S4	CP HV RC		
[Specimens previously misidentified as <i>A. striata</i> Michx.]				
<i>Amelanchier alnifolia</i> (Nutt.) Nutt. ex R. Roem.				
Saskatoon berry	S4?	CP HV RC		
[ <i>A. humilis</i> Wieg. var. <i>humilis</i> ]				
<i>Amelanchier arborea</i> (Michx. f.) Fern.				
Downy juneberry	S5	CP		
<i>Amelanchier laevis</i> Wiegand				
Smooth juneberry	S5	CP HV		
<i>Amelanchier sanguinea</i> (Pursh) DC.				
Roundleaf juneberry	S5?	CP RC		
<i>Amelanchier spicata</i> (Lam.) K. Koch				
N Low juneberry	S5?	HV		
<i>Amelanchier X wiegandii</i> Nielsen				
? Wiegand's juneberry	S1?	RC		
[ <i>A. arborea</i> X <i>A. sanguinea</i> ?]				
Most specimens have been referred to other taxa.				
<i>Crataegus beata</i> Sarg.				
Dunbar's hawthorn			SH	CP
<i>Crataegus brainerdii</i> Sarg.				
Brainerd's hawthorn			S2	CP
<i>Crataegus calpodendron</i> (Ehrh.) Medik.				
Urn-fruited hawthorn			S4S5	CP HV RC BT
<i>Crataegus chrysocarpa</i> Ashe				
Round-leaved hawthorn			S5	CP RC
<i>Crataegus compacta</i> Sarg.				
Compact hawthorn			S4?	CP
<i>Crataegus compta</i> Sarg.				
Adorned hawthorn			S2?	CP
<i>Crataegus corusca</i> Sarg.				
Gleaming hawthorn			S2 S3	CP
<i>Crataegus dissona</i> Sarg.				
Hawthorn			S3	CP
<i>Crataegus dodgei</i> Ashe				
Dodge's hawthorn			S4	CP HV
<i>Crataegus flabellata</i> (Bosc ex Spach) K. Koch				
? Bosc's thorn			S4?	RC
<i>Crataegus foetida</i> Ashe				
? Ill-scented hawthorn			SH	
<i>Crataegus fulleriana</i> Sarg.				
Fuller's hawthorn			S2?	CP

<i>Crataegus grandis</i> Ashe ? Large hawthorn	S1?	CP	<i>Crataegus succulenta</i> Schrad. ex Link Long-spined thorn	S4S5	CP RC
<i>Crataegus gravis</i> Ashe ? Heavily-laden hawthorn	SR	CP	<i>Fragaria vesca</i> L. ssp. <i>americana</i> (Porter) Staudt Woodland strawberry	S5	CP RC R
<i>Crataegus holmesiana</i> Ashe Holmes hawthorn	S4S5	CP	<i>Fragaria virginiana</i> Miller ssp. <i>virginiana</i> Field strawberry	SU	CP HV RC BT R
<i>Crataegus macracantha</i> Lodd. Large-thorned hawthorn	S5	CP HV	<i>Geum aleppicum</i> Jacq. Yellow avens	S5	CP
<i>Crataegus macrosperma</i> Ashe Variable thorn	S5	CP RC	[ <i>G. macrophyllum</i> Willd. records from Cootes Paradise are likely based on misidentifications of <i>G. aleppicum</i> .]		
[Including plants previously identified as <i>C. iracunda</i> ]			<i>Geum canadense</i> Jacq. White avens	S5	CP RC BT
<i>Crataegus margareta</i> Ashe Mrs. Ashe's thorn	SH	HV	<i>Geum laciniatum</i> Murray Rough avens	S4	CP HV R
<i>Crataegus monogyna</i> Jacq. + English hawthorn	SE5	CP	<i>Geum urbanum</i> L. +N Wood avens	SE2	CP HV R
<i>Crataegus pedicellata</i> Sarg. Scarlet hawthorn			No specimens.		
[Including all plants previously identified as <i>C. mollis</i> Scheele var. <i>mollis</i> ]			<i>Malus coronaria</i> (L.) Miller Wild crabapple	S4	CP R
<i>Crataegus pringlei</i> Sarg. Pringle's hawthorn			[ <i>Pyrus coronaria</i> L. var. <i>dasycalyx</i> (Rehd.) Fern.]		
<i>Crataegus pruinosa</i> (Wendl. f.) K. Koch Waxy-fruited thorn	S4?	CP RC	<i>Malus pumila</i> Miller + Common crabapple	SE5	CP HV RC BT R
<i>Crataegus punctata</i> Jacq. Large-fruited thorn			[ <i>Pyrus malus</i> L.]		
<i>Crataegus scabrida</i> Sarg. Hawthorn	S5	CP HV RC BT	Porteranthus trifoliatus (L.) Britton X Bowman's root	SX	CP HV
<i>Crataegus schuettei</i> Ashe Schuette's hawthorn			[ <i>Gillenia trifoliata</i> (L.) Moench.]		
			<i>Potentilla anserina</i> L. ssp. <i>anserina</i> Silverweed	S5	CP HV
			<i>Potentilla argentea</i> L. + Silvery cinquefoil	SE5	CP HV R W

<i>Potentilla norvegica</i> L.			<i>Prunus serotina</i> Ehrh.		
+ Rough cinquefoil	SE5	CP HV R	Black cherry	S5	CP HV RC
<i>Potentilla palustris</i> (L.) Scop.			<i>Prunus spinosa</i> L.		
Marsh cinquefoil	S5	CP HV	+ Black thorn	SE1	R
<i>Potentilla paradoxa</i> Nutt.			<i>Prunus virginiana</i> L. ssp. <i>virginiana</i>		
XH Bushy cinquefoil	S3	HV	Choke cherry	S5	CP HV RC
Collections from the 1950s were not included in the first edition checklist. This species is no longer found on RBG property.			<i>Pyrus communis</i> L.		
<i>Potentilla recta</i> L.			+ Common pear	SE4	CP RC R
+ Rough-fruited cinquefoil	SE5	CP HV RC R	<i>Rosa acicularis</i> Lindl. ssp. <i>sayi</i> (Schwein.) W. Lewis		
<i>Potentilla simplex</i> Michx.			Prickly rose	S5	CP
Old-field cinquefoil	S5	CP HV RC	<i>Rosa blanda</i> Aiton		
[Including all specimens previously identified as <i>P. canadensis</i> L. var. <i>canadensis</i> ]			Smooth rose	S5	CP HV RC BT
<i>Potentilla inclinata</i> Vill.			<i>Rosa canina</i> L.		
H Downy cinquefoil	SE4	CP W	+ Dog rose	SE2	CP RC BT
<i>Prunus americana</i> Pursh			<i>Rosa carolina</i> L.		
American plum	S4	CP RC R	Pasture rose	S4	CP HV RC BT
<i>Prunus avium</i> (L.) L.			<i>Rosa multiflora</i> Thunb. ex Murray		
+ Sweet cherry	SE4	CP RC	+ Multiflora rose	SE4	CP
<i>Prunus cerasus</i> L.			<i>Rosa palustris</i> Marshall		
+ Sour cherry	SE1	R	Swamp rose	S5	CP HV RC
<i>Prunus domestica</i> L. ssp. <i>instittitia</i> L. (Poir.)			<i>Rosa rubiginosa</i> L.		
+ Damson plum	SE2	R	+ Sweetbrier rose	SE4	CP BT
[ <i>P. instittitia</i> L.]			[ <i>R. eglanteria</i> L.]		
<i>Prunus nigra</i> Aiton			The following treatment of <i>Rubus</i> is based on the application of synonyms presented in the OPL to previously identified specimens. Further work is needed to verify these determinations.		
Canada plum	S4	CP HV RC R			
<i>Prunus pensylvanica</i> L. f.			<i>Rubus allegheniensis</i> Porter		
* Pin cherry	S5	CP HV	Common blackberry	S5	CP HV

<i>Rubus enslenii</i> Tratt. Enslen's raspberry	SU	CP	<i>Spiraea trilobata</i> L. + <i>Spiraea</i> No specimens.	SE1	CP R
<i>Rubus flagellaris</i> Willd. Prickly raspberry	S4	CP HV	<i>Spiraea X vanhouttei</i> (Briot) Zabel H Vanhoutte's meadowsweet	SE1	CP HV R
<i>Rubus frondosus</i> Bigelow Leafy raspberry	SU	CP	<i>Waldsteinia fragarioides</i> (Michx.) Tratt. Barren strawberry	S5	CP RC BT
<i>Rubus hispida</i> L. Trailing blackberry	S4S5	CP	<b>Legume family</b>		<b>Fabaceae</b>
<i>Rubus idaeus</i> L. ssp. <i>melanolasius</i> (Dieck) Focke Wild red raspberry	S5	CP HV RC BT	<i>Amphicarpa bracteata</i> (L.) Fern. Hog peanut	S5	CP HV
<i>Rubus occidentalis</i> L. Black raspberry	S5	CP HV RC BT	<i>Apios americana</i> Medik. Groundnut	S5	CP HV
<i>Rubus odoratus</i> L. Purple flowering raspberry	S5	CP HV RC	<i>Astragalus canadensis</i> L. * Canada milkvetch	S4	CP
<i>Rubus pensylvanicus</i> Poir. Pennsylvania raspberry	SU	CP	<i>Colutea arborescens</i> L. + Bladder senna	SE1	R
<i>Rubus pubescens</i> Raf. Dwarf raspberry	S5	CP HV	<i>Coronilla varia</i> L. +NCrown vetch	SE5	CP W
<i>Rubus setosus</i> Bigelow Bristly raspberry	S4?	CP	<i>Desmodium canadense</i> (L.) DC. Canadian tick-trefoil [ <i>Meibomia canadensis</i> (L.) Ktze.]	S4	CP HV RC
<i>Sorbus aucuparia</i> L. + European mountain-ash	SE4	CP	<i>Desmodium cuspidatum</i> (Muhlenb. ex Willd.) DC. ex Loudon var. <i>cuspidatum</i> Large-bracted tick-trefoil [ <i>Meibomia cuspidata</i> (Muhl.) Ktze.]	S3	CP RC
<i>Sorbus decora</i> (Sarg.) C.K. Schneid. Showy mountain-ash	S5	CP	<i>Desmodium glutinosum</i> (Muhlenb. ex Willd.) Alph. Wood Pointed-leaved tick-trefoil	S4	CP HV RC
<i>Spiraea alba</i> Du Roi Meadowsweet	S5	CP HV	<i>Desmodium nudiflorum</i> (L.) DC. * Naked-flowered tick-trefoil	S4	CP

<i>Desmodium paniculatum</i> (L.) DC. var. <i>dillenii</i> (Darl.) Isely H Tick-trefoil	S4	CP	<i>Robinia viscosa</i> Vent. ex Vauq. +N Clammy locust	SE2	BT
A single 1949 collection annotated by John Gillett in 1983.					
<i>Desmodium paniculatum</i> (L.) DC. var. <i>paniculatum</i> Panicled tick-trefoil	S4	CP RC	<i>Trifolium aureum</i> Pollich + Hop clover [ <i>T. agarium</i> L.]	SE5	CP R
[ <i>Meibomia paniculata</i> (L.) Ktze. var. <i>paniculata</i> ]					
<i>Gleditsia triacanthos</i> L. P Honey locust	S2	CP	<i>Trifolium hybridum</i> L. ssp. <i>elegans</i> (Savi) Asch. & Graebn. + Alsike clover	SE5	CP HV RC R
<i>Lathyrus latifolius</i> L. + Everlasting pea	SE4	CP	<i>Trifolium pratense</i> L. + Red clover	SE5	CP RC BT R
<i>Lathyrus palustris</i> L. Marsh vetchling	S5	CP	<i>Trifolium repens</i> L. + White clover	SE5	CP HV RC BT R
<i>Lespedeza capitata</i> Michx. Round-headed bush-clover	S4	HV	<i>Vicia caroliniana</i> Walter H Carolina vetch	S2	CP
<i>Lespedeza hirta</i> (L.) Hornem. Hairy bush-clover	S4	CP	<i>Vicia cracca</i> L. + Cow vetch	SE5	CP HV RC BT R
<i>Lotus corniculatus</i> L. +N Bird's-foot trefoil	SE5	CP	<i>Vicia sativa</i> L. ssp. <i>nigra</i> (L.) Ehrh. + Spring vetch [ <i>V. angustifolia</i> Reichenb.]	SE5	CP HV RC BT
<i>Medicago lupulina</i> L. + Black medick	SE5	CP HV RC BT R	<i>Vicia tetrasperma</i> (L.) Schreb. + Sparrow vetch	SE5	CP HV RC
<i>Medicago sativa</i> L. ssp. <i>sativa</i> + Alfalfa	SE5	CP HV RC R	<i>Vicia villosa</i> Roth + Hairy vetch	SE5	CP HV R
<i>Melilotus alba</i> Medik. + White sweet-clover	SE5	CP RC BT R	<u>Oleaster family</u>		<u>Elaeagnaceae</u>
<i>Melilotus officinalis</i> (L.) Pall. + Yellow sweet-clover	SE5	CP HV R	<i>Elaeagnus angustifolia</i> L. +N? Russian olive	SE5	CP
<i>Robinia pseudo-acacia</i> L. +H Black locust	SE5	CP RC	<i>Shepherdia canadensis</i> (L.) Nutt. Canada soapberry	S5	HV
Planted and naturalizing.					

Water-milfoil family	Haloragaceae				
<i>Myriophyllum sibiricum</i> Kom. H Pale water-milfoil Specimens originally determined as <i>M. farwellii</i> .	S5	CP	<i>Epilobium ciliatum</i> Raf. ssp. <i>glandulosum</i> (Lehm.) Hoch & Raven Northern willow-herb	SU	CP HV
<i>Myriophyllum spicatum</i> L. + Eurasian water-milfoil No specimens. Very abundant in Cootes Paradise in 1998, otherwise rare.	SE5	CP	[ <i>E. glandulosum</i> Lehm. var. <i>adenocaulon</i> (Haussk.) Fern.]		
<i>Myriophyllum verticillatum</i> L. * Whorled water-milfoil	S5	CP	<i>Epilobium coloratum</i> Biehler Purple-veined willow-herb	S5	CP BT
Loosestrife family	Lythraceae		<i>Epilobium hirsutum</i> L. + Hairy willow-herb	SE5	CP HV BT
<i>Decodon verticillatus</i> (L.) Elliott Water willow	S5	CP HV	<i>Epilobium leptophyllum</i> Raf. Narrow-leaved willow-herb	S5	CP
<i>Lythrum alatum</i> Pursh N Winged loosestrife Native in Hamilton, this species dispersed naturally into RBG sanctuaries sometime between 1969 and the 1980s.	S3	BT	<i>Epilobium parviflorum</i> Schreb. +N Sparse-flowered willow-herb	SE4	CP HV
<i>Lythrum salicaria</i> L. + Purple loosestrife	SE5	CP HV	<i>Ludwigia palustris</i> (L.) Elliott Water purslane	S5	CP
Evening-primrose family	Onagraceae		<i>Oenothera biennis</i> L. Common evening primrose	S5	CP RC BT R
<i>Circaea alpina</i> L. ? Smaller enchanter's nightshade	S5	CP	[Including a specimen identified as cf. <i>oakesiana</i> by Jeff Kaiser, and all specimens misidentified as <i>O. cruciata</i> Nutt. var. <i>cruciata</i> .]		
<i>Circaeа lutetiana</i> L. ssp. <i>canadensis</i> (L.) Aschers. & Magnusson Enchanter's nightshade [ <i>C. quadrifida</i> (Maxim.) Franch. & Sav. var. <i>canadensis</i> Hara.]	S5	CP HV RC	<i>Oenothera parviflora</i> L. Small-flowered evening primrose	S5?	RC R
<i>Epilobium angustifolium</i> L. Fireweed	S5	CP	<i>Oenothera perennis</i> L. Sundrops	S4S5	CP
<i>Epilobium ciliatum</i> Raf. ssp. <i>ciliatum</i> Ciliate willow-herb	S5	CP	<i>Oenothera pilosella</i> Raf. ssp. <i>pilosella</i> H Finely-pilose evening primrose	S2	CP
			[Originally identified as <i>O. fruticosa</i> ]		
Dogwood family	Cornaceae				
	<i>Cornus alternifolia</i> L. f. Alternate-leaved dogwood	S5	CP HV RC		
	<i>Cornus amomum</i> Miller ssp. <i>obliqua</i> (Raf.) J.S. Wilson Silky dogwood	S5	CP HV		

<i>Cornus canadensis</i> L.			<i>Euonymus obovata</i> Nutt.		
? Bunchberry	S5	CP	Running strawberry-bush	S5	CP RC
Two student collections from 1961, possibly mislabelled.					
<i>Cornus florida</i> L.			<i>Euonymus planipes</i>		
Eastern flowering dogwood	S4	CP	+N? Euonymus	SE1	CP
Planted and natural populations.					
<i>Cornus foemina</i> Miller ssp. <i>racemosa</i> (Lam.) J.S. Wilson			<b>Holly family</b>		<b>Aquifoliaceae</b>
Gray dogwood	S5	CP HV RC BT	<i>Ilex verticillata</i> (L.) A. Gray		
<i>Cornus rugosa</i> Lam.			* Winterberry	S5	CP
Round-leaved dogwood	S5	CP HV RC			
<i>Cornus stolonifera</i> Michx.			<b>Spurge family</b>		<b>Euphorbiaceae</b>
Red-osier dogwood	S5	CP HV RC	<i>Acalypha virginica</i> L. var. <i>rhomboidea</i> (Raf.) Cooperrider		
<i>Cornus X arnoldiana</i> Rehd.			Three-seeded mercury	S5	CP HV W
Arnold's dogwood	S1	CP HV	[ <i>A. rhomboidea</i> Raf.]		
[ <i>C. amomum</i> X <i>C. foemina</i> ]			<i>Chamaesyce glyptosperma</i> (Engelm.) Small		
<b>Sandalwood family</b>		<b>Santalaceae</b>	+ Ridge-seeded spurge	SE5	R
<i>Comandra umbellata</i> (L.) Nutt.			[ <i>Euphorbia glyptosperma</i> Engelm.]		
Bastard toad-flax	S5	CP HV RC	<i>Chamaesyce maculata</i> (L.) Small		
<b>Staff-tree family</b>		<b>Celastraceae</b>	+ Spotted spurge	SE5	R
<i>Celastrus scandens</i> L.			[ <i>Euphorbia maculata</i> L.]		
Climbing bittersweet	S5	CP HV	<i>Chamaesyce nutans</i> (Lag.) Small		
<i>Euonymus atropurpurea</i> Jacq. var. <i>atropurpurea</i>			Nodding spurge	S4S5	R W
P? Burning bush	S3	CP	[ <i>Euphorbia nutans</i> Lag.]		
<i>Euonymus europaea</i> L.			<i>Chamaesyce vermiculata</i> (Raf.) House		
+N Spindle tree	SE2	CP	H Hairy spurge	S5	W
<i>Euonymus fortunei</i> (Turcz.) Hand.-Mazz.			<i>Euphorbia dentata</i> Michx.		
+N Euonymus	SE1	CP	+ Toothed spurge	SE4	R
No specimens. Establishing from yard waste dumped in ravines.			<i>Euphorbia helioscopia</i> L.		
			+ Sun spurge	SE3	R
			<i>Euphorbia peplus</i> L.		
			+ Petty spurge	SE4	R
			<i>Euphorbia platyphyllos</i> L.		
			+ Broad-leaved spurge	SE4	R

Buckthorn family	Rhamnaceae		Buckeye family	Hippocastanaceae
<i>Ceanothus americanus</i> L. New Jersey tea	S4	CP HV RC	<i>Aesculus hippocastanum</i> L. +N Horse chestnut No specimens.	SE2 CP HV
<i>Rhamnus cathartica</i> L. + Common buckthorn	SE5	CP RC R		
<i>Rhamnus frangula</i> L. + Glossy buckthorn	SE5	CP		
Grape family	Vitaceae		Maple family	Aceraceae
<i>Parthenocissus inserta</i> (A. Kern.) Fritsch Virginia creeper	S5	CP HV RC BT	<i>Acer campestre</i> L. +P Hedge maple Three records from Hendrie Valley in 1956 and 1957.	SE1 HV
<i>Vitis aestivalis</i> Michx. * Summer grape	S4	CP HV	<i>Acer negundo</i> L. Manitoba maple	S5 CP HV R
<i>Vitis riparia</i> Michx. Riverbank grape	S5	CP HV RC BT R	<i>Acer platanoides</i> L. +N Norway maple	SE5 CP HV RC R
Flax family	Linaceae		<i>Acer rubrum</i> L. Red maple	S5 CP HV RC
<i>Linum perenne</i> L. + Perennial flax	SE3	CP	<i>Acer saccharinum</i> L. Silver maple	S5 CP HV
<i>Linum usitatissimum</i> L. + Common flax	SE3	CP R	<i>Acer saccharum</i> Marshall ssp. <i>nigrum</i> (Michx. f.) Desmarais Black maple	S4? CP HV RC
Milkwort family	Polygalaceae		<i>Acer saccharum</i> Marshall ssp. <i>saccharum</i> Sugar maple	S5 CP HV RC
<i>Polygala paucifolia</i> Willd. Gay wings	S5	HV	<i>Acer spicatum</i> Lam. Mountain maple	S5 CP HV
<i>Polygala senega</i> L. * Seneca-snakeroot	S4	CP HV RC	<i>Acer X freemanii</i> E. Murr. H* Freeman's maple A single record from 1932, location unknown. Previously overlooked in the region.	
<i>Polygala verticillata</i> L. * Whorled milkwort	S4	CP W		
Bladder-nut family	Staphyleaceae		Sumac or cashew family	Anacardiaceae
<i>Staphylea trifolia</i> L. American bladder-nut	S4	RC	<i>Cotinus coggygria</i> Scop. +N Smoke-tree	SE1 CP

<i>Rhus radicans</i> L. ssp. <i>negundo</i> (Greene) McNeill Climbing poison-ivy	S5	CP HV RC	<i>Geranium pusillum</i> L. +N Small-flowered crane's bill	SE4	W
[ <i>Toxicodendron radicans</i> (L.) Ktze. var. <i>radicans</i> ]					
<i>Rhus rydbergii</i> Small ex Rydb. Poison-ivy	S5	CP HV RC R	<i>Geranium robertianum</i> L. + Herb-robert	SE5	CP HV RC BT
[ <i>Toxicodendron radicans</i> (L.) Ktze. var. <i>rydbergii</i> (Small) Erskine]					
<i>Rhus typhina</i> L. Staghorn sumac	S5	CP HV RC R	Meadow-foam family		<b>Limnanthaceae</b>
<i>Rhus vernix</i> L. X Poison sumac	S4	CP	<i>Floerkea proserpinacoides</i> Willd. False mermaid-weed	S4	CP
A single plant discovered in 1970 by Dr. J.S. Pringle.					
<b>Ailanthus or quassia family</b>		<b>Simaroubaceae</b>	<b>Touch-me-not or jewel-weed family</b>		<b>Balsaminaceae</b>
<i>Ailanthus altissima</i> (Miller) Swingle + Tree-of-heaven	SE5	HV R	<i>Impatiens capensis</i> Meerb. Spotted touch-me-not	S5	CP HV RC
<b>Rue family</b>		<b>Rutaceae</b>	<i>Impatiens glandulifera</i> Royle + Himalayan balsam	SE4	HV
<i>Zanthoxylum americanum</i> Miller American prickly-ash	S5	CP RC BT	<i>Impatiens pallida</i> Nutt. Pale touch-me-not	S5	CP HV RC
<b>Wood-sorrel family</b>		<b>Oxalidaceae</b>	<b>Ginseng family</b>		<b>Araliaceae</b>
<i>Oxalis corniculata</i> L. N+ Creeping wood-sorrel	SE1	W	<i>Aralia nudicaulis</i> L. Wild sarsaparilla	S5	CP HV RC
<i>Oxalis dillenii</i> Jacq. Dillen's wood-sorrel	S5?	CP HV RC R W	<i>Aralia racemosa</i> L. ssp. <i>racemosa</i> * Spikenard	S5	CP HV
<i>Oxalis stricta</i> L. Upright yellow wood-sorrel	S5	CP HV	<i>Panax trifolius</i> L. XH Dwarf ginseng	S4	CP
<b>Geranium family</b>		<b>Geraniaceae</b>	<b>Carrot or parsley family</b>		<b>Apiaceae</b>
<i>Erodium cicutarium</i> (L.) L'Hér. ssp. <i>cicutarium</i> + Stork's-bill	SE3	R W	<i>Angelica atropurpurea</i> L. * Angelica	S5	CP HV
<i>Geranium maculatum</i> L. Wild geranium	S5	CP HV RC	<i>Cicuta bulbifera</i> L. Bubble-bearing water-hemlock	S5	CP HV
			<i>Cicuta maculata</i> L. Spotted water-hemlock	S5	CP BT

<i>Cryptotaenia canadensis</i> (L.) DC. Honewort	S5	CP HV	<i>Torilis japonica</i> (Houtt.) DC. N Japan hedge-parsley First collected in 2000, well established in shaded floodplains.	SE4	HV
<i>Daucus carota</i> L. + Queen Anne's lace	SE5	CP HV RC	<b>Gentian family</b>	<b>Gentianaceae</b>	
<i>Heracleum lanatum</i> Michx. Cow-parsnip [ <i>H. maximum</i> Bartr.]	S5	CP HV	<i>Frasera carolinensis</i> Walter American Columbo Found on property to be acquired by RBG in 2003.	S1	HV
<i>Hydrocotyle americana</i> L. Water-pennywort	S5	CP	<i>Gentiana andrewsii</i> Griseb. X Bottle gentian	S4	CP HV
<i>Myrrhis odorata</i> (L.) Scop. +N Scented myrrhis	SE1	HV	<i>Gentianopsis crinita</i> (Froel.) Ma X Fringed gentian	S5	CP
<i>Osmorrhiza claytonii</i> (Michx.) C.B. Clarke Sweet-cicely	S5	CP HV	<b>Dogbane family</b>	<b>Apocynaceae</b>	
<i>Osmorrhiza longistylis</i> (Torr.) DC. Anise-root	S5	CP RC	<i>Apocynum androsaemifolium</i> L. ssp. <i>androsaemifolium</i> Spreading dogbane	S5	CP HV RC
<i>Pastinaca sativa</i> L. + Wild parsnip	SE5	CP R	<i>Apocynum cannabinum</i> L. var. <i>cannabinum</i> Indian hemp	S5	CP
<i>Sanicula canadensis</i> L. var. <i>canadensis</i> N Canada snakeroot A single specimen collected within 10 metres of RBG property.	S4	BT	<i>Apocynum cannabinum</i> L. var. <i>hypericifolium</i> A. Gray H Clasping-leaved Indian hemp	S4?	CP R
<i>Sanicula marilandica</i> L. Black snakeroot	S5	CP HV	<i>Apocynum X floribundum</i> Greene Multi-flowered dogbane [ <i>A. medium</i> Greene; <i>A. cannabinum</i> X <i>A. androsaemifolium</i> ]	SU	CP
<i>Sanicula odorata</i> (Raf.) Pryer & Phillippe H Clustered snakeroot [Specimens originally referred to <i>S. marilandica</i> ]	S5	CP	<i>Vinca minor</i> L. + Periwinkle Spreading vegetatively from historic plantings and dumped yard waste.	SE5	CP HV RC
<i>Sium suave</i> Walter Hemlock water-parsnip	S5	CP HV	<b>Milkweed family</b>	<b>Asclepiadaceae</b>	
<i>Taenidia integerrima</i> (L.) Drude Yellow pimpernel	S4	CP HV RC	<i>Asclepias exaltata</i> L. Poke milkweed	S4	CP HV RC
			<i>Asclepias incarnata</i> L. ssp. <i>incarnata</i> Swamp milkweed	S5	CP HV

<i>Asclepias syriaca</i> L. Common milkweed	S5	CP HV RC BT R	<i>Convolvulus arvensis</i> L. + Field bindweed	SE5	CP HV RC R W
<i>Asclepias tuberosa</i> L. * Butterfly-weed	S4	CP HV R	<i>Cuscuta gronovii</i> Willd. ex Schultz Gronovius' dodder	S5	CP HV
<i>Cynanchum nigrum</i> (L.) Pers. + Black swallow-wort [ <i>Vincetoxicum nigrum</i> (L.) Moench] See Pringle (1973).	SE?	W	<b>Buckbean family</b>	<b>Menyanthaceae</b>	
<i>Cynanchum rossicum</i> (Kleopov) Borhidi + Pale swallow-wort [ <i>Vincetoxicum medium</i> (R.Br.) Dcne.]	SE5	CP BT	<i>Nymphoides peltata</i> (S.G. Gmelin) Kuntze +N Yellow floating-heart	SE1	CP
<b>Nightshade family</b>		<b>Solanaceae</b>	First recorded in 1999, now established in a limited area.		
<i>Datura stramonium</i> L. N+ Jimson weed	SE5	W	<b>Phlox family</b>	<b>Polemoniaceae</b>	
<i>Nicandra physalodes</i> (L.) Gaertn. + Apple-of-Peru No specimens.	SE1	R	<i>Phlox divaricata</i> L. Wild blue phlox	S4	CP HV RC
<i>Physalis heterophylla</i> Nees Clammy ground-cherry	S4	CP BT R	<i>Phlox paniculata</i> L. +H Garden phlox	SE2	HV
<i>Solanum dulcamara</i> L. + Bittersweet nightshade	SE5	CP HV RC BT	<i>Phlox subulata</i> L. ssp. <i>subulata</i> +H Moss phlox	SE2	CP R
<i>Solanum ptychanthum</i> Dunal ex DC. Eastern black nightshade [ <i>S. americanum</i> Mill.]	S5	CP R W	Possibly an introduction from the cemetery.		
<b>Morning-glory family</b>		<b>Convolvulaceae</b>	<b>Water-leaf family</b>	<b>Hydrophyllaceae</b>	
<i>Calystegia sepium</i> (L.) R. Br. ssp. <i>americanum</i> (Sims) Brummitt Hedge bindweed	SU	CP HV RC	<i>Hydrophyllum canadense</i> L. N Broad-leaved water-leaf	S4	HV
<i>Calystegia spithamea</i> (L.) Pursh ssp. <i>spithamea</i> Low bindweed	S4S5	HV	First collected in 2000.		
<b>Borage family</b>			<i>Hydrophyllum virginianum</i> L. Virginia water-leaf	S5	CP HV RC
<i>Anchusa arvensis</i> (L.) M. Bieb. + Alkanet			<b>Boraginaceae</b>		
[ <i>Lycopsis arvensis</i> L.]			<i>Anchusa azurea</i> Miller +N Showy bugloss		W
			<i>Anchusa officinalis</i> L. + Alkanet	SE1	R

<i>Buglossoides arvensis</i> (L.) I.M. Johnston + Corn-gromwell [ <i>Lithospermum arvense</i> L.]	SE5	CP RC R W	<i>Vervain family</i>	<b>Verbenaceae</b>
<i>Cynoglossum officinale</i> L. + Hound's-tongue	SE5	CP HV RC R W	<i>Verbena bonariensis</i> L. +N Purpletop vervain	SE1 HV
<i>Echium vulgare</i> L. + Viper's bugloss	SE5	CP HV RC BT R	<i>Verbena hastata</i> L. Blue vervain	S5 CP HV BT
<i>Hackelia virginiana</i> (L.) I.M. Johnston Stickseed	S5	CP RC	<i>Verbena urticifolia</i> L. White vervain	S5 CP HV RC BT
<i>Lappula squarrosa</i> (Retz.) Dumort. ssp. <i>squarrosa</i> H Two-row stickweed	S5	CP HV	<i>Mint family</i>	<b>Lamiaceae</b>
<i>Myosotis discolor</i> Pers. + Two-coloured forget-me-not [ <i>M. versicolor</i> (Pres.) Sm.]	SE1	CP HV W	<i>Agastache nepetoides</i> (L.) Kuntze Catnip giant-hyssop	S4 CP
<i>Myosotis laxa</i> Lehm. Smaller forget-me-not	S5	CP	<i>Clinopodium vulgare</i> L. Wild basil	S5 CP HV RC BT
<i>Myosotis scorpioides</i> L. + Mouse-ear scorpion-grass	SE5	CP	[ <i>Satureia vulgaris</i> (L.) Fritsch, var. <i>vulgaris</i> and var. <i>neogaea</i> Fern.]	
<i>Myosotis stricta</i> Link +N Upright forget-me-not	SE4	W	<i>Collinsonia canadensis</i> L. Horsebalm	S4 CP HV RC
<i>Myosotis sylvatica</i> H. Hoffm. + Woodland forget-me-not	SE4	CP R	<i>Galeopsis tetrahit</i> L. N Common hemp-nettle	SE5 HV
<i>Myosotis verna</i> Nutt. N Spring forget-me-not [Specimens originally determined as <i>M. versicolor</i> / <i>M. discolor</i> ]	S4?	CP HV	<i>Glechoma hederacea</i> L. + Creeping Charlie	SE5 CP HV R W
<b>Lopseed family</b>			<i>Hedeoma pulegioides</i> (L.) Pers. American pennyroyal	S4 CP
<i>Phryma leptostachya</i> L. Lopseed	S4S5	CP HV	<i>Lamium amplexicaule</i> L. + Henbit	SE3 W
			<i>Lamium purpureum</i> L. +N Purple dead-nettle	SE3 CP
			<i>Leonurus cardiaca</i> L. ssp. <i>cardiaca</i> + Common motherwort	SE5 CP HV RC R W

<i>Lycopus americanus</i> Muhlenb. ex Bartram Water-horehound	S5	CP	<i>Salvia pratensis</i> L. + Meadow sage	SE2	R
<i>Lycopus asper</i> Greene H Western water-horehound	S2	HV	<i>Salvia reflexa</i> Hornem. +N Reflex-leaved sage	SE1	R
<i>Lycopus europaeus</i> L. + European water-horehound	SE5	CP	<i>Scutellaria galericulata</i> L. Hooded skullcap	S5	CP
<i>Lycopus uniflorus</i> Michx. Northern water-horehound	S5	CP BT	<i>Scutellaria lateriflora</i> L. Mad-dog skullcap	S5	CP
<i>Lycopus virginicus</i> L. N Virginia water-horehound	S2	CP	<i>Stachys hispida</i> Pursh Rough hedge-nettle [ <i>S. tenuifolia</i> Willd., var. <i>hispida</i> (Pursh.) Fern. and var. <i>platylphylla</i> Fern.]	S4S5	CP
<i>Mentha arvensis</i> L. ssp. <i>borealis</i> (Michx.) R.L. Taylor & Macbryde American wild mint [ <i>M. arvensis</i> L., var. <i>arvensis</i> and var. <i>villosa</i> (Benth.) S.R. Stewart]	S5	CP HV BT	<i>Stachys palustris</i> L. + Hedge-nettle	SE5	CP R
<i>Mentha spicata</i> L. + Spearmint	SE4	CP	<i>Teucrium canadense</i> L. ssp. <i>canadense</i> Wood germander [Including <i>T. canadense</i> L. var. <i>virginianum</i> (L.) Eat.]	S5?	CP HV
<i>Mentha X piperita</i> L. + Peppermint [Including <i>M. citrata</i> Ehrh.]	SE4	CP	<i>Teucrium canadense</i> L. ssp. <i>viscidum</i> (Piper) R.L. Taylor & Macbryde Wood germander [ <i>T. canadense</i> L. var. <i>occidentale</i> (A.Gray) McClintock & Epling]	SU	CP HV
<i>Melissa officinalis</i> L. ssp. <i>officinalis</i> + Common balm	SE1	CP	Water-starwort family	<hr/> <b>Callitrichaceae</b>	
<i>Monarda fistulosa</i> L. Wild bergamot	S5	CP HV RC BT R	<i>Callitricha hermaphroditica</i> L. H Water starwort A single specimen from 1946, originally misidentified as <i>Elodea nuttallii</i> .	S5	CP
<i>Nepeta cataria</i> L. + Catnip	SE5	CP HV RC R W	Plantain family	<hr/> <b>Plantaginaceae</b>	
<i>Prunella vulgaris</i> L. ssp. <i>lanceolata</i> (W.C. Barton) Hultén Heal-all	S5	CP HV RC R	<i>Plantago lanceolata</i> L. + English plantain	SE5	R W
<i>Prunella vulgaris</i> L. ssp. <i>vulgaris</i> + Common heal-all	SE3	CP HV RC R	<i>Plantago major</i> L. + Common plantain	SE5	RC R W

<i>Plantago rugelii</i> Decne. Rugel's plantain	S5	CP	<i>Chelone glabra</i> L. Turtlehead	S5	CP HV RC
<b>Olive family</b>		<b>Oleaceae</b>			
<i>Fraxinus americana</i> L. White ash	S5	CP HV RC R	<i>Linaria genistifolia</i> (L.) Miller ssp. <i>dalmatica</i> (L.) Maire & Petitmengin + Toadflax [ <i>L. dalmatica</i> L.]	SE3	R
<i>Fraxinus nigra</i> Marshall Black ash	S5	CP HV	<i>Linaria vulgaris</i> Miller + Butter-and-eggs	SE5	CP RC BT R
<i>Fraxinus pennsylvanica</i> Marshall Red ash	S5	CP HV	<i>Lindernia dubia</i> (L.) Pennell False pimpernel [RBG specimens show some characters intermediate between var. <i>dubia</i> and var. <i>anagallidea</i> (Michx.) Cooperrider (synonym <i>L. anagallidea</i> (Michx.) Pennell)]	S4	CP HV
<i>Ligustrum vulgare</i> L. + Common privet	SE5	CP	<i>Melampyrum lineare</i> Desr. Cow-wheat	S4S5	CP HV
<i>Syringa vulgaris</i> L. + Common lilac	SE5	CP RC R	<i>Mimulus ringens</i> L. Monkey flower	S5	CP HV
<b>Figwort family</b>		<b>Scrophulariaceae</b>			
<i>Antirrhinum majus</i> L. + Great snapdragon No specimens.	SE1	W	<i>Pedicularis canadensis</i> L. Lousewort	S5	CP RC
<i>Aureolaria flava</i> (L.) Farw. Yellow false foxglove	S3	CP	<i>Penstemon digitalis</i> Nutt. ex Sims Foxglove beard-tongue	S4S5	HV BT
<i>Aureolaria pedicularia</i> (L.) Raf. Fern-leaved false foxglove	S3	CP HV	<i>Penstemon hirsutus</i> (L.) Willd. Hairy beard-tongue	S4	CP HV RC
<i>Aureolaria virginica</i> (L.) Pennell H Smooth yellow false foxglove A single record from 1957, originally determined as <i>Gerardia flava</i> L. This species has not been relocated despite recent search efforts.	S1	CP	<i>Scrophularia marilandica</i> L. Carpenter's-square figwort	S4	CP HV RC
<i>Castilleja coccinea</i> (L.) Spreng. H Indian paintbrush	S5	CP	<i>Verbascum blattaria</i> L. + Moth mullein	SE5	CP RC BT R W
<i>Chaenorrhinum minus</i> (L.) Lange + Dwarf snapdragon	SE5	CP R	<i>Verbascum phoeniceum</i> L. +H Purple mullein	SE1	CP

<i>Verbascum thapsus</i> L. + Common mullein	SE5	CP RC R	<i>Veronica serpyllifolia</i> L. ssp. <i>serpyllifolia</i> + Thyme-leaved speedwell	SE5	CP HV RC W
<i>Veronica americana</i> (Raf.) Schwein. ex Benth. Brooklime	S5	CP HV	<b>Broom-rape family</b>	<b>Orobanchaceae</b>	
<i>Veronica anagallis-aquatica</i> L. + Water speedwell	SE5	CP HV	<i>Epifagus virginiana</i> (L.) Barton Beech-drops	S5	CP HV
<i>Veronica arvensis</i> L. + Corn speedwell	SE5	CP RC R W	<i>Orobanche uniflora</i> L. X One-flowered broom-rape	S4	CP HV RC
<i>Veronica austriaca</i> L. ssp. <i>vahlii</i> +H Lance-leaved speedwell	SE1	CP HV R	<b>Trumpet- creeper</b>	<b>Bignoniaceae</b>	
Originally misidentified as <i>V. chamaedrys</i> . The only known record of this subspecies in Ontario, it may have been cultivated (Rothfels 2003).			<i>Catalpa ovata</i> G. Don +H Chinese catalpa	SE1	CP
<i>Veronica beccabunga</i> L. + Bachbungen's speedwell	SE2	CP	<i>Catalpa speciosa</i> Warden ex Engelm. +N Northern catalpa	SE1	CP W
<i>Veronica filiformis</i> Sm. +N Hair-like speedwell	SE2	CP	<b>Bladderwort family</b>	<b>Lentibulariaceae</b>	
<i>Veronica longifolia</i> L. + Long-leaved speedwell	SE3	CP	<i>Utricularia vulgaris</i> L. Common bladderwort	S5	CP HV
<i>Veronica officinalis</i> L. + Common speedwell	SE5	CP HV RC BT	<b>Bluebell family</b>	<b>Campanulaceae</b>	
<i>Veronica peregrina</i> L. ssp. <i>peregrina</i> Purslane speedwell	S5	CP R W	<i>Campanula americana</i> L. Tall bellflower	S4	CP HV RC
<i>Veronica persica</i> Poir. + Bird's-eye speedwell	SE4	W	<i>Campanula aparinoides</i> Pursh Marsh bellflower	S5	CP
<i>Veronica polita</i> Fr. +N Wayside speedwell	SE4	W	<i>Campanula rapunculoides</i> L. + Creeping bellflower	SE5	CP
<i>Veronica scutellata</i> L. Marsh speedwell	S5	CP	<i>Campanula rotundifolia</i> L. Bluebells	S5	CP RC
			<i>Lobelia inflata</i> L. Indian tobacco	S5	CP HV RC
			<i>Lobelia kalmii</i> L. H Kalm's lobelia	S5	CP

<i>Lobelia siphilitica</i> L. Great lobelia	S5	CP	<i>Mitchella repens</i> L. Partridge-berry	S5	CP
<i>Lobelia spicata</i> Lam. Spiked lobelia	S4	CP	<b>Honeysuckle family</b>		<b>Caprifoliaceae</b>
<b>Madder family</b>		<b>Rubiaceae</b>	<i>Diervilla lonicera</i> Miller Bush honeysuckle	S5	CP HV RC
<i>Cephalanthus occidentalis</i> L. Eastern buttonbush	S5	CP	<i>Linnaea borealis</i> L. ssp. <i>longiflora</i> (Torr.) Hultén H Twinflower	S5	
<i>Galium aparine</i> L. Cleavers	S5	CP HV RC	<i>Lonicera dioica</i> L. Glaucous honeysuckle	S5	CP HV RC
<i>Galium asprellum</i> Michx. Rough bedstraw	S5	CP	<i>Lonicera maackii</i> (Rupr.) Maxim. +N Amur honeysuckle	SE2	CP HV
<i>Galium boreale</i> L. Northern bedstraw	S5	CP HV	<i>Lonicera morrowii</i> A. Gray + Morrow's honeysuckle	SE3	CP
<i>Galium circaeans</i> Michx. White wild licorice	S5	CP HV RC	<i>Lonicera tatarica</i> L. + Tartarian honeysuckle	SE5	CP HV RC
<i>Galium lanceolatum</i> Torr. Spear wild licorice	S5	CP	<i>Lonicera X bella</i> Zabel + Bell's honeysuckle	SE2	CP RC
<i>Galium mollugo</i> L. + White bedstraw	SE5	R	<i>Lonicera xylosteum</i> L. + Fly honeysuckle	SE2	CP BT
<i>Galium palustre</i> L. Marsh bedstraw	S5	CP HV	<i>Sambucus canadensis</i> L. Common elderberry	S5	CP HV RC BT
<i>Galium tinctorium</i> L. Stiff marsh bedstraw [ <i>G. trifidum</i> L. var. <i>tinctorium</i> (L.) T. & G.]	S5	CP	<i>Sambucus racemosa</i> L. ssp. <i>pubens</i> (Michx.) House Red-berried elderberry [ <i>S. pubens</i> Michx.]	S5	CP HV RC
<i>Galium trifidum</i> L. ssp. <i>trifidum</i> Small bedstraw	S5	CP	<i>Symporicarpos albus</i> (L.) S.F. Blake Snowberry	S5	CP HV RC R
<i>Galium triflorum</i> Michx. Sweet-scented bedstraw	S5	CP HV RC			

<i>Triosteum aurantiacum</i> E.P. Bicknell Wild coffee	S5	CP RC	<i>Achillea millefolium</i> L. ssp. <i>millefolium</i> + Common yarrow	SE?	CP BT R
<i>Viburnum acerifolium</i> L. Maple-leaved viburnum	S5	CP HV RC	<i>Ambrosia artemisiifolia</i> L. Common ragweed	S5	CP HV RC BT R
<i>Viburnum lantana</i> L. +N Wayfaring-tree	SE2	CP	<i>Ambrosia trifida</i> L. Giant ragweed	S5	CP HV R
<i>Viburnum lentago</i> L. Nannyberry	S5	CP HV	<i>Ambrosia X helenae</i> Rouleau N Hybrid ragweed	S1	CP
<i>Viburnum opulus</i> L. + Guelder rose [ <i>V. opulus</i> L. var. <i>opusus</i> ]	SE4	CP HV	<i>Antennaria howellii</i> Greene ssp. <i>canadensis</i> (Greene) R.J. Bayer Canadian pussytoes [ <i>Antennaria neglecta</i> Green var. <i>randii</i> (Fern.) Cronq.]	SU	R
<i>Viburnum rafinesquianum</i> Schult. Downy arrow-wood	S5	CP HV RC	<i>Antennaria howellii</i> Greene ssp. <i>neodoica</i> (Greene) R.J. Bayer Smaller pussytoes [ <i>Antennaria neglecta</i> Green var. <i>attenuata</i> (Fern.) Cronq.]	SU	CP HV R
<i>Viburnum recognitum</i> Fern Southern arrow-wood [ <i>V. dentatum</i> L. var. <i>lucidum</i> Ait.]	S4	CP	<i>Antennaria neglecta</i> Greene Field pussytoes	S5	CP HV RC R
<i>Viburnum trilobum</i> Marshall * High bush cranberry [ <i>V. opulus</i> L. var. <i>americanum</i> ]	S5	CP HV	<i>Antennaria parlinii</i> Fern. ssp. <i>fallax</i> (E. Greene) R.J. Bayer & Stebb. Parlin's pussytoes [Including specimens previously referred to <i>A. parlinii</i> and <i>A. plantaginifolia</i> (L.) Richards var. <i>plantaginifolia</i> . Further study is required to determine the status of <i>A. plantaginifolia</i> var. <i>plantaginifolia</i> in RBG sanctuaries]	SU	CP HV RC
<b>Valerian family</b>	<b>Valerianaceae</b>		<i>Anthemis arvensis</i> L. + Corn chamomile	SE5	CP HV RC
<i>Valeriana officinalis</i> L. + Common valerian	SE3	CP	<i>Anthemis cotula</i> L. + Stinking mayweed	SE5	CP HV RC
<b>Teasel family</b>	<b>Dipsacaceae</b>		<i>Anthemis tinctoria</i> L. + Yellow chamomile	SE1	R
<i>Dipsacus fullonum</i> L. ssp. <i>sylvestris</i> (Hudson) Clapham + Wild teasel [ <i>D. sylvestris</i> Huds.]	SE5	CP HV RC BT R	<i>Arctium lappa</i> L. + Great burdock	SE5	CP HV
<b>Composite or Aster family</b>	<b>Asteraceae</b>				
<i>Achillea millefolium</i> L. ssp. <i>lanulosa</i> (Nutt.) Piper Woolly yarrow [ <i>A. lanulosa</i> Nutt.]	S5	CP RC R			

<i>Arctium minus</i> (Hill) Bernh. ssp. <i>minus</i> + Common burdock	SE5	CP HV RC BT R	<i>Aster novae-angliae</i> L. New England aster	S5	CP HV RC BT R
<i>Artemisia absinthium</i> L. + Common wormwood	SE3?	CP	<i>Aster oolentangiensis</i> Riddell Sky blue aster [ <i>A. azureus</i> L. var. <i>azureus</i> ]	S4	CP HV R
<i>Artemisia biennis</i> Willd. + Biennial wormwood [Including all specimens previously misidentified as <i>Tagetes minuta</i> L.]	SE5	CP RC R	<i>Aster pilosus</i> Willd. var. <i>pilosus</i> Hairy aster	S5	CP BT
<i>Artemisia ludoviciana</i> Nutt. + Western sage	S4?	R	<i>Aster puniceus</i> L. var. <i>puniceus</i> Purple-stemmed aster No specimens.	S5	CP HV
<i>Artemisia vulgaris</i> L. +N Mugwort	SE5	W	<i>Aster schreberi</i> Nees * Schreber's aster No specimens.	S2	CP HV
<i>Aster ciliolatus</i> Lindl. H Ciliolate aster	S5	CP	<i>Aster umbellatus</i> Miller var. <i>umbellatus</i> Flat-top white aster No specimens.	S5	CP HV
<i>Aster cordifolius</i> L. Heart-leaved aster	S5	CP HV RC BT	<i>Aster urophyllus</i> Lindl. Arrow-leaved aster [ <i>A. sagittifolius</i> Wedem. ex. Willd. var. <i>sagittifolius</i> ]	S4	CP
<i>Aster divaricatus</i> L. XH White wood aster Recent searches have failed to locate this species.	S1	CP	<i>Aster X amethystinus</i> Nutt. Amethyst aster	S3?	CP BT
<i>Aster ericoides</i> L. ssp. <i>ericoides</i> Heath aster	S5	CP HV RC BT R	<i>Bidens cernua</i> L. Nodding beggar-ticks	S5	CP HV R
<i>Aster laevis</i> L. var. <i>laevis</i> Smooth aster	S5	CP HV RC BT	<i>Bidens frondosa</i> L. Devil's beggar-ticks	S5	CP
<i>Aster lanceolatus</i> Willd. ssp. <i>lanceolatus</i> Tall white aster [ <i>A. simplex</i> Willd.] No specimens.	S5	CP BT	<i>Bidens tripartita</i> L. Purplestem beggar-ticks [ <i>B. connata</i> Muhl. var. <i>petiolata</i> (Nutt.) Farw.]	S5	CP
<i>Aster lateriflorus</i> (L.) Britton var. <i>lateriflorus</i> Calico aster	S5	CP HV RC R	<i>Bidens vulgata</i> Greene Tall beggar-ticks	S5	CP
<i>Aster macrophyllus</i> L. Large-leaved aster	S5	CP HV RC			

<i>Centaurea cyanus</i> L. + Cornflower	SE1	R	<i>Erigeron strigosus</i> Muhlenb. ex Willd. Daisy fleabane	S5	CP RC BT R
<i>Centaurea jacea</i> L. +N Brown knapweed	SE5	BT	<i>Eupatorium altissimum</i> L. +N Tall snakeroot	S1	CP
<i>Centaurea nigrescens</i> Willd. ssp. <i>nigrescens</i> + Blackish knapweed [ <i>C. vochinensis</i> Bernh.]	SE4	CP	<i>Eupatorium maculatum</i> L. ssp. <i>maculatum</i> Spotted Joe-pye-weed	S5	CP
<i>Chrysanthemum leucanthemum</i> L. + Ox-eye daisy	SE5	CP HV RC BT R	<i>Eupatorium perfoliatum</i> L. Boneset	S5	CP
<i>Cichorium intybus</i> L. + Chicory	SE5	CP RC BT R	<i>Eupatorium purpureum</i> L. var. <i>purpureum</i> H Sweet Joe-pye-weed	S3	RC
<i>Cirsium arvense</i> (L.) Scop. + Canada thistle	SE5	CP RC BT R	<i>Eupatorium rugosum</i> Houtt. White snakeroot	S5	CP HV RC
<i>Cirsium vulgare</i> (Savi) Ten. + Bull thistle	SE5	CP BT R	<i>Euthamia graminifolia</i> (L.) Nutt. Grass-leaved goldenrod	S5	CP BT R
<i>Conyza canadensis</i> (L.) Cronquist Horseweed	S5	BT R W	<i>Gaillardia aristata</i> Pursh + Blanket-flower	SE1	R
[All specimens of <i>G. pulchella</i> Foug. have been revised to <i>G. aristata</i> .]					
<i>Crepis tectorum</i> L. + Narrow-leaved hawk's beard	SE5	W	<i>Galinsoga parviflora</i> Cav. +N Small-flowered Galinsoga	SE?	CP
<i>Erechtites hieracifolia</i> (L.) Raf. ex DC. Pilewort	S5	CP HV	First collected in 1998.		
<i>Erigeron annuus</i> (L.) Pers. Daisy fleabane	S5	CP HV RC BT R	<i>Galinsoga quadriradiata</i> Ruiz, Lopez & Pavón + Hairy Galinsoga	SE5	CP R W
[ <i>G. ciliata</i> Blake]					
<i>Erigeron philadelphicus</i> L. ssp. <i>philadelphicus</i> Philadelphia fleabane	S5	CP RC R	<i>Gnaphalium obtusifolium</i> L. Fragrant cudweed	S5	CP
[Including all specimens previously identified as <i>G. macounii</i> Greene]					
<i>Erigeron pulchellus</i> Michx. Robin's fleabane	S5	CP RC R	<i>Gnaphalium uliginosum</i> L. + Low cudweed	SE5	CP

<i>Helianthus decapetalus</i> L. Thin-leaved sunflower	S5	CP	<i>Hieracium X floribundum</i> Wimm. & Grab. + King devil hawkweed	SE?	HV R
<i>Helianthus divaricatus</i> L. Woodland sunflower	S5	CP RC	<i>Inula helenium</i> L. + Elecampane	SE5	CP HV BT
<i>Helianthus hirsutus</i> Raf. +H Stiff-haired sunflower A single specimen with ambiguous location data.	SE1		<i>Lactuca biennis</i> (Moench) Fern. Tall blue lettuce	S5	CP
<i>Helianthus strumosus</i> L. Pale-leaved Wood sunflower	S5	CP HV R	<i>Lactuca canadensis</i> L. Canada wild lettuce	S5	CP R
<i>Helianthus tuberosus</i> L. + Jerusalem artichoke [Includes all specimens previously identified as <i>H. petiolaris</i> Nutt.]	SE5	R	<i>Lactuca serriola</i> L. + Prickly lettuce [ <i>L. scariola</i> L.]	SE5	CP HV RC R
<i>Heliopsis helianthoides</i> (L.) Sweet H Sweet ox-eye	S5	CP	<i>Lapsana communis</i> L. + Nipplewort	SE5	CP HV
<i>Hieracium aurantiacum</i> L. + Orange hawkweed	SE5	CP HV RC BT R	<i>Leontodon autumnalis</i> L. ssp. <i>autumnalis</i> +H Fall dandelion	SE5	W
<i>Hieracium caespitosum</i> Dumort. ssp. <i>caespitosum</i> + Yellow hawkweed [ <i>H. pratense</i> Tausch.]	SE5	CP HV RC R W	<i>Matricaria matricarioides</i> (Less.) Porter + Pineapple-weed	SE5	HV RC W
<i>Hieracium canadense</i> Michx. Canada hawkweed	SU	CP	<i>Matricaria perforata</i> Mérat + Scentless chamomile [Includes specimens previously identified as <i>M. maritima</i> L. var. <i>agrestis</i> ]	SE?	R W
<i>Hieracium murorum</i> L. + Golden lungwort	SE1	R	<i>Matricaria recutita</i> L. + Sweet-false chamomile [ <i>M. chamomilla</i> L. var. <i>chamomilla</i> ]	SE?	R W
<i>Hieracium paniculatum</i> L. Panicled hawkweed	S2	CP	<i>Megalodonta beckii</i> (Torr. ex Spreng) Greene X Water-marigold	S5	CP HV
<i>Hieracium piloselloides</i> Vill. + Glaucous king devil [ <i>H. florentinum</i> All.]	SE5	CP R	<i>Onopordum acanthium</i> L. + Scotch thistle	SE4	R W

<i>Petasites frigidus</i> (L.) Fr. H Sweet-coltsfoot One specimen, location not recorded.	S5		<i>Silphium perfoliatum</i> L. var. <i>perfoliatum</i> +N Cup-plant Spreading from a planting in the Woodland Garden.	S2	HV
<i>Petasites japonicus</i> (Siebold & Zucc.) Maxim. +P Japanese sweet-coltsfoot Planted in Hendrie Valley and aggressively spreading along a creek channel. Most plants of this population were removed manually in 1999, and no other established locations are known.	SE1	HV	<i>Solidago altissima</i> L. var. <i>altissima</i> Tall goldenrod [ <i>S. canadensis</i> L. var. <i>scabra</i> (Muhl.) T. & G.]	S5	CP RC
<i>Picris hieracioides</i> L. ssp. <i>hieracioides</i> + Hawkweed ox-tongue No specimens	SE5	CP	<i>Solidago arguta</i> Aiton var. <i>arguta</i> H Sharp-leaved goldenrod Several collections from the 1950s and a single collection from 2000.	S3	CP
<i>Polymnia canadensis</i> L. Small-flowered leaf-cup	S4	RC	<i>Solidago bicolor</i> L. Silverrod	S4?	CP HV
<i>Prenanthes alba</i> L. White rattlesnake-root	S5	CP HV RC	<i>Solidago caesia</i> L. Blue-stem goldenrod	S5	CP HV RC
<i>Prenanthes altissima</i> L. Tall white lettuce	S5	CP HV	<i>Solidago canadensis</i> L. Canada goldenrod [Including both var. <i>canadensis</i> and var. <i>hargeri</i> .]	S5	CP RC BT R
<i>Rudbeckia hirta</i> L. Brown-eyed Susan	S5	CP HV R	<i>Solidago flexicaulis</i> L. Zig-zag goldenrod	S5	CP HV RC
<i>Rudbeckia laciniata</i> L. Tall coneflower	S5	CP HV BT	<i>Solidago gigantea</i> Aiton Giant goldenrod	S5	CP HV R
<i>Rudbeckia triloba</i> L. + Brown-eyed coneflower	SE4	R	<i>Solidago hispida</i> Muhlenb. var. <i>hispida</i> Hairy goldenrod [ <i>S. bicolor</i> L. var. <i>concolor</i> T. & G.]	S5	CP HV
<i>Senecio jacobaea</i> L. + Tansy groundsel	SE1	R	<i>Solidago juncea</i> Aiton Early goldenrod	S5	CP HV RC R
<i>Senecio sylvaticus</i> L. Woodland groundsel	S1?	HV R	<i>Solidago nemoralis</i> Aiton ssp. <i>nemoralis</i> Gray goldenrod	S5	CP HV RC R
<i>Senecio vulgaris</i> L. + Common groundsel	SE5	R W	<i>Solidago patula</i> Muhlenb. ex Willd. Rough-leaved goldenrod	S5	CP

<i>Solidago rigida</i> L. ssp. <i>rigida</i> Stiff-leaved goldenrod	S3	CP HV R	<i>Tragopogon pratensis</i> L. ssp. <i>pratensis</i> + Meadow goat's-beard	SE5	CP RC R
<i>Solidago rugosa</i> Aiton ssp. <i>rugosa</i> H Rough goldenrod	S5	CP	<i>Tussilago farfara</i> L. + Coltsfoot	SE5	CP HV
<i>Solidago squarrosa</i> Muhlenb. ex Nutt. X Rugged goldenrod	S5	CP HV	<i>Xanthium strumarium</i> L. Cocklebur	S5	CP
<i>Sonchus arvensis</i> L. ssp. <i>arvensis</i> + Field sow-thistle	SE5	CP HV RC R	<b>Water-plantain family</b>	<b>Alismataceae</b>	
<i>Sonchus arvensis</i> L. ssp. <i>uliginosus</i> (M. Bieb.) Nyman + Perennial sow-thistle	SE5	HV	<i>Alisma plantago-aquatica</i> L. Common water-plantain [Including <i>A. subcordatum</i> Raf. and <i>A. triviale</i> Pursh.]	S5	CP HV
<i>Sonchus asper</i> (L.) Hill ssp. <i>asper</i> + Spiny sow-thistle	SE5	CP R	<i>Sagittaria cuneata</i> E. Sheld. H Northern arrowhead	S4?	CP HV
<i>Sonchus oleraceus</i> L. + Common sow-thistle	SE5	CP HV	Some specimens predate Lamoreaux's 1950–1955 planting program, indicating this species was part of the native flora.		
<i>Tanacetum vulgare</i> L. + Common tansy	SE5	CP R	<i>Sagittaria latifolia</i> Willd. Broad-leaved arrowhead	S5	CP HV
<i>Tanacetum parthenium</i> (L.) Schultz-Bip. +N Feverfew	SE3	HV	<b>Frog's-bit family</b>	<b>Hydrocharitaceae</b>	
<i>Taraxacum erythrospermum</i> Andrz. ex Besser + Red-seeded dandelion	SE5	R	<i>Elodea canadensis</i> Rich. ex Michx. Canada waterweed	S5	CP HV
<i>Taraxacum officinale</i> G. Weber + Common dandelion	SE5	CP RC R W	<i>Vallisneria americana</i> Michx. Water-celery	S5	CP HV
<i>Tragopogon dubius</i> Scop. + Large goat's-beard [ <i>T. major</i> Jacq.]	SE5	R	<b>Pondweed family</b>	<b>Potamogetonaceae</b>	
<i>Tragopogon porrifolius</i> L. + Common salsify	SE4?	R	<i>Potamogeton berchtoldii</i> Fieber * Berchtold's pondweed [Annotated as <i>Potamogeton pusillus</i> var. <i>tenuissimus</i> by Hellquist.]	S4S5	CP HV
			<i>Potamogeton crispus</i> L. + Curled pondweed	SE5	CP HV W

<i>Potamogeton foliosus</i> Raf.				
? Leafy pondweed	S5	CP		
[The identity of specimens of <i>P. foliosus</i> and <i>P. pusillus</i> L. from Cootes Paradise need verification.]				
<i>Potamogeton friesii</i> Rupr.				
H Fries' pondweed	S4	CP		
[A single specimen from 1949, possibly a hybrid with <i>P. zosteriformis</i> ]				
<i>Potamogeton natans</i> L.				
Common floating pondweed	S5	CP		
A single specimen. Seen but not collected in 1998.				
<i>Potamogeton nodosus</i> Poir.				
Knotty pondweed	S5	CP HV		
<i>Potamogeton pectinatus</i> L.				
Sago pondweed	S5	CP HV		
<i>Potamogeton perfoliatus</i> L.				
Clasping-leaved pondweed	S4	CP		
<i>Potamogeton pusillus</i> L.				
? Small pondweed	S4S5	CP		
[The identity of specimens of <i>P. foliosus</i> and <i>P. pusillus</i> L. from Cootes Paradise need verification.]				
<i>Potamogeton zosteriformis</i> Fern.				
Flat-stemmed pondweed	S5	CP HV		
<b>Water-nymph or naiad family</b>		<b>Najadaceae</b>		
<i>Najas flexilis</i> (Willd.) Rost. & W. Schmidt				
X Slender naias	S5	CP		
<i>Najas minor</i> All.				
+N Smaller naias	SE2	CP		
First discovered in 1999.				
			<b>Zannichelliaceae</b>	
			<i>Zannichellia palustris</i> L.	
			Horned pondweed	S4
				CP HV
			<b>Flowering rush family</b>	<b>Butomaceae</b>
			<i>Butomus umbellatus</i> L.	
			+N Flowering-rush	SE5
				CP HV
			Plantings in Cootes Paradise in the 1950s did not establish.	
			Collected in Carroll's Bay in 2000. See also Gaiser, 1949.	
			<b>Arum family</b>	<b>Araceae</b>
			<i>Acorus americanus</i> (Raf.) Raf.	
			Sweetflag	S4
			[ <i>A. calamus</i> L. Plants in RBG sanctuary produce viable seed, and on this basis are distinguished from true <i>A. calamus</i> , a sterile triploid]	CP HV
			<i>Arisaema triphyllum</i> (L.) Schott ssp. <i>triphyllum</i>	
			Jack-in-the-pulpit	S5
				CP HV RC BT
			<i>Calla palustris</i> L.	
			Wild calla	S5
				CP HV
			<i>Peltandra virginica</i> (L.) Schott & Endl. ssp. <i>virginica</i>	
			? Tuckahoe	S5
			A single plant growing beside a boardwalk on the north shore of Cootes Paradise. It may persist from Lamoureux's (1963) plantings.	CP
			<i>Symplocarpus foetidus</i> (L.) Salisb. ex Nutt.	
			Skunk-cabbage	S5
				CP HV
			<b>Duckweed family</b>	<b>Lemnaceae</b>
			<i>Lemna minor</i> L.	
			Lesser duckweed	S5
				CP HV
			<i>Lemna trisulca</i> L.	
			Star duckweed	S5
				CP HV
			<i>Spirodela polyrhiza</i> (L.) Schleid.	
			Greater duckweed	S5
				CP HV

<i>Wolffia borealis</i> (Engelm.) Landolt Northern water-meal [ <i>W. punctata</i> Griseb.]	S4S5	CP HV	<i>Juncus pylaei</i> Laharpe H Rush [Several specimens of <i>J. effusus</i> have been revised to <i>J. pylaei</i> ]	S5	CP
<i>Wolffia columbiana</i> Karst. Water-meal	S4S5	CP HV	<i>Juncus tenuis</i> Willd. Path rush	S5	CP HV BT R
<b>Spiderwort family</b>			<b>Commelinaceae</b>		
<i>Commelina communis</i> L. +* Asiatic day-flower	SE3	R	<i>Juncus torreyi</i> Coville Torrey's rush	S5	CP HV BT R
<i>Tradescantia virginiana</i> L. +* Virginia spiderwort	SE1	CP R	<i>Luzula acuminata</i> Raf. Hairy woodrush	S5	CP HV
<b>Rush family</b>			<b>Juncaceae</b>		
<i>Juncus articulatus</i> L. Jointed rush	S5	CP HV	<i>Luzula multiflora</i> (Retz.) Lej. ssp. <i>multiflora</i> Woodrush	S5	CP HV RC
<i>Juncus bufonius</i> L. Toad rush	S5	CP HV R	<b>Sedge family</b>		
<i>Juncus canadensis</i> J. Gay ex Laharpe Canada rush	S5	CP	<i>Bulboschoenus fluviatilis</i> (Torr.) Sojak N River bulrush [ <i>Scirpus fluviatilis</i> (Torr.) A. Gray]	S4S5	CP HV
<i>Juncus compressus</i> Jacq. + Compressed rush	SE5	CP	<i>Carex albicans</i> Willd. ex Spreng. var. <i>albicans</i> Closely-covered sedge [ <i>C. artitecta</i> Dewey. Includes plants previously misidentified as <i>C. emmonsii</i> Dewey (synonym <i>C. albicans</i> var. <i>emmonsii</i> ).]	S2	CP HV
<i>Juncus dudleyi</i> Wiegelb Dudley's rush	S5	CP HV RC BT R	<i>Carex albursina</i> E. Sheld. White bear sedge	S5	CP HV
<i>Juncus effusus</i> L. ssp. <i>solutus</i> (Fern. & Wiegand) Hämet-Ahti Soft rush	S5	CP	<i>Carex alopecoidea</i> Tuckerm. Foxtail sedge	S5	CP HV
<i>Juncus gerardii</i> Loisel. +N Blackgrass rush	SE3	R	<i>Carex aquatilis</i> Wahlenb. * Aquatic sedge	S5	CP
First collected from a ditch below highway 403 in 1999.			<i>Carex arctata</i> Boott Drooping wood sedge	S5	CP
<i>Juncus nodosus</i> L. Knotted rush	S5	CP HV			

<i>Carex atherodes</i> Spreng.			<i>Carex digitalis</i> Willd.		
* Awned sedge	S4S5	CP HV	Slender wood sedge		CP HV BT
The only record for <i>C. vesicaria</i> L. in RBG sanctuaries (and in the City of Hamilton) was based on a misidentified specimen of <i>C. atherodes</i> .					
<i>Carex aurea</i> Nutt.			<i>Carex gracillima</i> Schwein.		
Golden-fruited sedge	S5	CP BT R	Graceful sedge	S5	CP HV
<i>Carex bebbii</i> (L.H. Bailey) Olney ex Fern.			<i>Carex granularis</i> Muhlenb. ex Willd.		
Bebb's sedge	S5	CP HV	Meadow sedge	S5	CP BT
<i>Carex blanda</i> Dewey			<i>Carex grisea</i> Wahl.		
Woodland sedge	S5	CP RC	Narrow-leaved sedge	S4	CP HV
<i>Carex cephaloidea</i> (Dewey) Dewey			[Including all specimens previously referred to <i>C. amphibola</i> Steud.]		
Thin-leaved sedge	S5	CP HV	<i>Carex hitchcockiana</i> Dewey		
<i>Carex cephalophora</i> Muhlenb. ex Willd.			N Hitchcock's sedge	S5	RC
Oval-headed sedge	S5	CP HV RC	First discovered in 1999.		
[Includes plants previously misidentified as <i>C. mesochorea</i> Mack. and <i>C. aggregata</i> Mack.]			<i>Carex hystericina</i> Muhlenb. ex Willd.		
<i>Carex communis</i> L.H. Bailey			Porcupine sedge	S5	CP HV
Fibrous rooted sedge	S5	CP	<i>Carex interior</i> L.H. Bailey		
<i>Carex comosa</i> Boott			Inland sedge	S5	CP
Bristly sedge	S5	CP HV	<i>Carex jamesii</i> Schwein.		
<i>Carex crinita</i> Lam.			N James' sedge	S3	CP RC
Fringed sedge	S5	CP	<i>Carex lacustris</i> Willd.		
<i>Carex cristatella</i> Britton			Lake-bank sedge	S5	CP HV
Crested sedge	S5	CP HV RC	<i>Carex laxiculmis</i> Schwein.		
<i>Carex deweyana</i> Schwein.			Spreading sedge	S4	CP
Dewey's sedge	S5	CP HV	<i>Carex laxiflora</i> Lam.		
<i>Carex diandra</i> Schrank			Loose-flowered sedge	S5	CP
* Lesser panicled sedge	S5	CP	<i>Carex leptalea</i> Wahlenb. ssp. <i>leptalea</i>		
			N Bristle-stalked sedge	S5	CP
			Discovered in 1999, known from a single location on the south shore.		
			<i>Carex lupulina</i> Muhlenb. ex Willd.		
			Hop sedge	S5	CP

<i>Carex molesta</i> Mack. Troublesome sedge	S4?	HV R	<i>Carex pseudo-cyperus</i> L. Cypress-like sedge	S5	CP HV
[Includes plants previously misidentified as <i>C. brevior</i> (Dewey) Mack. ex Lunell. One specimen with ambiguous location data may be true <i>C. brevior</i> ]			<i>Carex radiata</i> (Wahlenb.) Small Radiate sedge	S5	CP
<i>Carex normalis</i> Mack. Larger straw sedge	S4	CP HV	<i>Carex retrorsa</i> Schwein. Retorse sedge	S5	CP HV
<i>Carex oligocarpa</i> Schkuhr ex Willd. N Few-fruited sedge First discovered in 1998.	S2	RC BT	<i>Carex rosea</i> Schkuhr ex Willd. Stellate sedge [Includes <i>C. convoluta</i> Mack.]	S5	CP HV RC
<i>Carex pedunculata</i> Muhlenb. ex Willd. Long-stalked sedge	S5	CP HV	<i>Carex scabrida</i> Schwein. * Rough sedge	S5	CP
<i>Carex pellita</i> Willd. Woolly sedge	S5	CP HV	<i>Carex scoparia</i> Schkuhr ex Willd. Pointed broom sedge	S5	CP
<i>Carex pensylvanica</i> Lam. Pennsylvania sedge	S5	CP HV RC BT	<i>Carex sparganioides</i> Muhlenb. ex Willd. Burreed sedge	S5	CP HV
[All specimens previously identified as <i>C. inops</i> L. Bailey (synonym <i>C. pensylvanica</i> var. <i>digyna</i> ) have been revised to <i>C. pensylvanica</i> .]			<i>Carex spicata</i> Hudson + Spiked sedge	SE5	CP RC
<i>Carex pensylvanica</i> X <i>Carex umbellata</i> N Hybrid carex A single 2001 collection identified by Dr. Reznicek.		CP	<i>Carex stipata</i> Muhlenb. ex Willd. Awl-fruited sedge [Including plants previously misidentified as <i>C. laevigata</i> (Kuekenth.) Mack.]	S5	CP HV
<i>Carex plantaginea</i> Lam. Plantain-leaved sedge	S5	CP HV	<i>Carex stricta</i> Lam. Tussock sedge [Including plants previously misidentified as <i>C. lenticularis</i> Michx. var. <i>lenticularis</i> .]	S5	CP HV
<i>Carex platyphylla</i> J. Carey Broad-leaved sedge	S5	CP HV	<i>Carex tenera</i> Dewey Straw sedge [Including plants previously misidentified as <i>C. festucacea</i> Schkuhr.]	S5	CP HV R
<i>Carex prasina</i> Wahlenb. Drooping sedge	S4	CP			
<i>Carex projecta</i> Mack. Necklace sedge	S5	HV			

<i>Carex tribuloides</i> Wahlenb. Blunt broom sedge	S4S5	HV	<i>Eleocharis acicularis</i> (L.) Roem. & Schult. Needle spike-rush	S5	CP
<i>Carex umbellata</i> Schkuhr ex Willd. N Umbel-like sedge First discovered in 1993 by Steve Varga.	S5	CP HV	<i>Eleocharis erythropoda</i> Steud. Red-footed spike-rush	S5	CP HV RC BT
<i>Carex utriculata</i> Boott Beaked sedge [Including plants previously misidentified as <i>C. rostrata</i> Stokes var. <i>rostrata</i> ]	S5	CP HV	<i>Eleocharis intermedia</i> Schult. Matted spike-rush	S4	CP HV
<i>Carex vulpinoidea</i> Michx. Fox sedge [Including plants previously identified as <i>C. annectens</i> Bickn. var. <i>annectens</i> .]	S5	CP HV BT	<i>Eleocharis obtusa</i> (Willd.) Schult. Blunt spike-rush	S5	CP HV
<i>Cyperus bipartitus</i> Torr. Umbrella sedge	S5	R	<i>Eleocharis smallii</i> Britton Water spike-rush [ <i>E. palustris</i> (L.) R. & S.]	S5	CP HV RC
<i>Cyperus diandrus</i> Torr. N Small cyperus	S4	CP	<i>Schoenoplectus acutus</i> (Muhlenb. ex Bigelow) Löve & Löve P? Hard-stemmed bulrush [ <i>Scirpus acutus</i> Muhlenb. ex Bigelow] Specimens may all originate from planted stock (Lamoureux, 1963).	S5	CP
<i>Cyperus erythrorhizos</i> Muhlenb. N Red-rooted umbrella sedge	S3	CP	<i>Schoenoplectus pungens</i> (Vahl) Palla H Common three-square [ <i>Scirpus pungens</i> M. Vahl] Specimens may all originate from planted stock (Lamoureux, 1963).	S5	CP HV
<i>Cyperus esculentus</i> L. Yellow nut-grass	S5	CP	<i>Schoenoplectus tabernaemontani</i> (C.C. Gmelin) Palla Soft-stemmed bulrush [ <i>Scirpus validus</i> L.]	S5	CP HV BT
<i>Cyperus lupulinus</i> (Spreng.) Marcks ssp. <i>lupulinus</i> Slender cyperus [ <i>C. filiculmis</i> Vahl.]	SH	R	<i>Scirpus atrovirens</i> Willd. Black bulrush [Specimens previously identified as <i>S. atrovirens</i> var. <i>georgianus</i> (recorded as <i>S. hatorianus</i> Mak. in Pringle (1969)) are included here. These specimens have characters somewhat intermediate between the two taxa.]	S5	CP HV RC BT
<i>Cyperus odoratus</i> L. Fragrant umbrella sedge [ <i>C. engelmannii</i> Steud.]	S5	CP HV	<i>Scirpus cyperinus</i> (L.) Kunth Wool-grass	S5	CP RC
<i>Cyperus strigosus</i> L. Straw-colored umbrella sedge	S5	CP HV			

<i>Scirpus microcarpus</i> C. Presl Red-sheathed bulrush	S5	CP	<i>Alopecurus pratensis</i> L. + Meadow foxtail	SE5	HV
<i>Scirpus pendulus</i> Muhlenb. ex Willd. Lined bulrush	S5	BT	<i>Andropogon gerardii</i> Vitman Big bluestem	S4	CP RC R
<i>Trichophorum clintonii</i> (A. Gray) S.G. Smith * Clinton's club-rush	S2	CP	<i>Arrhenatherum elatius</i> (L.) P. Beauv. ex Presl + Tall oat grass	SE4	HV R
[ <i>Scirpus clintonii</i> A. Gray] A single specimen. Most likely extirpated but easily overlooked.			<i>Avena sativa</i> L. + Cultivated oats	SE3	CP
<i>Trichophorum planifolium</i> (Sprengel) Palla Few-flowered clubrush	S1	CP	<i>Brachyelytrum erectum</i> (Schreb.) P. Beauv. Bearded short-husk	S4S5	CP HV
[ <i>Scirpus verecundus</i> Fern.] Endangered in Canada. Several large populations in Cootes Paradise. Appropriate habitat occurs in Hendrie Valley, but despite intensive searching it has not been found there.			<i>Bromus arvensis</i> L. + Field brome	SE1	R
<b>Grass family</b>		<b>Poaceae</b>	<i>Bromus ciliatus</i> L. Fringed brome	S5	CP
<i>Agropyron cristatum</i> (L.) Gaertn. ssp. <i>pectinatum</i> (M. Bieb.) Tzvelev + Crested wheat grass	SE2	R	[Listed as <i>B. canadensis</i> Michx. in Pringle (1969)]		
[ <i>A. cristatiforme</i> Sarker]					
<i>Agrostis gigantea</i> Roth + Redtop	SE5	CP HV BT	<i>Bromus commutatus</i> Schrad. + Upright chess	SE4	CP RC R
[ <i>A. stolonifera</i> L. var. <i>major</i> (Gaud.) Farw.]			[Including plants listed as <i>B. racemosus</i> L. in Pringle (1969)]		
<i>Agrostis perennans</i> (Walter) Tuckerm. Upland bent grass	S5	CP BT	<i>Bromus hordeaceus</i> L. ssp. <i>hordeaceus</i> + Soft brome	SE2?	CP R
[Including one specimen previously determined as <i>A. scabra</i> Willd., which was recorded as <i>A. hyemalis</i> (Walt.)BSP. var. <i>tenuis</i> (Tuckerm.) Gleas. in Pringle (1969).]			[ <i>Bromus mollis</i> L.]		
<i>Agrostis stolonifera</i> L. Creeping bent grass	S5	CP HV	<i>Bromus inermis</i> Leyss. ssp. <i>inermis</i> + Smooth brome	SE5	CP R
<i>Alopecurus aequalis</i> Sobol. Water foxtail	S4S5	CP HV	<i>Bromus japonicus</i> Thunb. ex Murray + Japanese chess	SE4	W
			<i>Bromus kalmii</i> A. Gray Kalm's brome	S4	CP HV
			[ <i>B. purgans</i> L.]		

<i>Bromus latiglumis</i> (Shear) Hitchc. Tall brome [Listed as <i>B. ciliatus</i> L. in Pringle (1969)]	S4	CP	<i>Echinochloa microstachya</i> (Wiegand) Rydb. Small-spiked barnyard grass [ <i>E. pungens</i> (Poir.) var. <i>microstachya</i> (Wieg.) Fern. & Grisc.]	S4S5	CP HV
<i>Bromus pubescens</i> Muhl. ex Willd. Hairy brome	S4	CP HV RC	<i>Echinochloa muricata</i> (Michx.) Fern. Pungent millet [ <i>E. pungens</i> (Poir.) Rydb. Var. <i>pungens</i> ]	S3?	CP HV
<i>Bromus secalinus</i> L. ssp. <i>secalinus</i> + Cheat chess	SE4	R	<i>Elymus canadensis</i> L. Canada wild rye	S4S5	CP R
<i>Bromus tectorum</i> L. + Downy chess	SE5	CP RC R W	<i>Elymus elongatus</i> (Host) Runemark ssp. <i>ponticus</i> (Podp.) Meld. +N Elongated wild rye	SE3	HV
<i>Calamagrostis canadensis</i> (Michx.) P. Beauv. Canada blue-joint	S5	CP HV BT	<i>Elymus hystrix</i> L. Bottle-brush grass	S5	CP HV RC
<i>Calamagrostis epigejos</i> (L.) Roth +N Feathertop	SE2	W	<i>Elymus repens</i> (L.) Gould + Quack grass [ <i>Agropyron repens</i> (L.) Beauv.]	SE5	CP HV RC BT R
<i>Calamagrostis stricta</i> (Timm) Koeler ssp. <i>inexpansa</i> (A. Gray) C.W. Greene N Narrow reed grass	S5	CP	<i>Elymus riparius</i> Wiegand River-bank wild rye	S4?	CP
<i>Cenchrus longispinus</i> (Hack.) Fern. Field sandbur	S4	R	<i>Elymus trachycaulus</i> (Link) Gould in Shinn. ssp. <i>trachycaulus</i> Slender wheat grass [ <i>Agropyron trachycaulum</i> (Link) Malte var. <i>ciliatum</i> (Scribn. & J.G. Smith)]	S5?	CP HV
<i>Cinna arundinacea</i> L. Wood reed grass	S4	CP HV	<i>Elymus virginicus</i> L. var. <i>virginicus</i> Virginia wild rye	S5	CP HV
<i>Dactylis glomerata</i> L. + Orchard grass	SE5	CP HV RC BT R	<i>Eragrostis cilianensis</i> (All.) Lutati ex Hubb. + Stink grass [ <i>E. megastachya</i> (Koeler) Link.]	SE5	W
<i>Danthonia spicata</i> (L.) P. Beauv. ex Roem. & Schult. Poverty grass	S5	CP HV	<i>Eragrostis hypnoides</i> (Lam.) B.S.P. Tall love grass	S4	CP
<i>Digitaria sanguinalis</i> (L.) Scop. + Large crabgrass	SE5	CP R W	<i>Eragrostis minor</i> Host + Low love grass [ <i>E. poaeoides</i> Beauv. Ex R. & S. R.]	SE5	R
<i>Echinochloa crusgalli</i> (L.) P. Beauv. + Common barnyard grass [Including a single specimen of <i>E. frumentacea</i> (Roxb.) Link (synonym <i>E. crusgalli</i> var. <i>frumentacea</i> (Link) W. Wight) collected in 1955.]	SE5	CP HV W			

<i>Festuca arundinacea</i> Schreb. + Tall fescue	SE5	CP BT	<i>Hordeum vulgare</i> L. + Common barley	SE2	W
<i>Festuca pratensis</i> Hudson + Meadow fescue	SE5	CP HV RC	<i>Leersia oryzoides</i> (L.) Sw. Rice cut grass	S5	CP
<i>Festuca rubra</i> L. ssp. <i>rubra</i> Red fescue	S5	CP HV R	<i>Leersia virginica</i> Willd. White cut grass	S4	CP HV
<i>Festuca subverticillata</i> (Pers.) Alexeev Nodding fescue [ <i>F. obtusa</i> Biehler.]	S4	CP HV	<i>Lolium perenne</i> L. + English rye grass [Including <i>L. multiflorum</i> Lam. var. <i>multiflorum</i> ]	SE4	HV
<i>Festuca trachyphylla</i> (Hack.) Krajina + Sheep fescue [Listed as <i>F. ovina</i> L. var. <i>duriuscula</i> (L.) W.D.J.Koch in Pringle (1969), and here including specimens referred to <i>F. ovina</i> L. f. <i>hispida</i> and var. <i>glauca</i> (Lam.) W.D.J. Koch.]	SE4	CP R W	<i>Milium effusum</i> L. Wood millet	S4S5	CP HV
<i>Glyceria borealis</i> (Nash) Batch. Northern manna grass	S5	CP HV	<i>Muhlenbergia mexicana</i> (L.) Trin. var. <i>filiformis</i> (Willd.) Scribn. Mexican satin grass	S4	CP HV
<i>Glyceria canadensis</i> (Michx.) Trin. Rattlesnake grass	S4S5	CP	<i>Muhlenbergia schreberi</i> J. Gmel. Screber's satin grass	S4	CP
<i>Glyceria grandis</i> S. Watson Tall manna grass	S4S5	CP HV	<i>Oryzopsis asperifolia</i> Michx. Mountain-rice	S5	CP
<i>Glyceria maxima</i> (Hartm.) F.O. Holmb. + Sweet manna grass [Including <i>G. spectabilis</i> Mert & Koch.] See Gutteridge 1954, Anderson and Reznicek 1994.	SE5	CP	The following treatment of <i>Panicum</i> is based on the application of synonyms presented in the OPL to previously identified specimens. Further work is needed to verify these determinations.		
<i>Glyceria septentrionalis</i> Hitchc. Floating manna grass	S4	HV	<i>Panicum acuminatum</i> Sw. var. <i>acuminatum</i> Acuminate panic grass	S5	CP
<i>Glyceria striata</i> (Lam.) A. Hitchc. Fowl meadow grass	S5	CP	[ <i>P. lanuginosum</i> Nash. var. <i>implicatum</i> Fern., including all specimens previously identified as <i>P. vilosissimum</i> Nash]		
<i>Hordeum jubatum</i> L. ssp. <i>jubatum</i> + Foxtail barley	SE5	R	<i>Panicum acuminatum</i> Sw. var. <i>fasciculatum</i> (Torr.) Lelong Panic grass	S5	CP HV RC BT R
			[ <i>P. lanuginosum</i> Nash. var. <i>fasciculatum</i> (Torr.) Fern.]		

<i>Panicum capillare</i> L. Witch grass	S5	CP RC R W	<i>Poa bulbosa</i> L. +N Bulbous spear grass	SE3	W
<i>Panicum dichotomiflorum</i> Michx. +N Fall panicum	SE5	RC	<i>Poa compressa</i> L. +? Canada blue grass	SE5?	CP RC R W
<i>Panicum dichotomum</i> (L.) Gould Spreading panic grass	S2	CP	<i>Poa interior</i> Rydb. Inland blue grass	S3?	CP
<i>Panicum latifolium</i> L. Broad-leaved panic grass [ <i>P. macrocarpon</i> Le Conte ex Torr.]	S4	CP HV	<i>Poa languida</i> Hitchc. Languid spear grass	S3	CP
<i>Panicum linearifolium</i> Nash Narrow-leaved panic	S4S5	CP	<i>Poa nemoralis</i> L. + Woodland spear grass	SE3	CP
[Includes specimens previously identified as <i>P. depauperatum</i> Muhl. var. <i>involutum</i> (Torr.) Wood]			<i>Poa palustris</i> L. Fowl meadow grass	S5	CP HV
<i>Panicum miliaceum</i> L. Broom-corn millet	SE4	CP HV	<i>Poa pratensis</i> L. ssp. <i>pratensis</i> Kentucky blue grass	S4S5	CP HV
<i>Phalaris arundinacea</i> L. + Reed canary grass	S5	CP	<i>Poa saltuensis</i> Fern. & Wiegand Two-rayed poa	S4	CP
Aggressive clones of this species growing in southern Ontario are believed to be of European origin (Dore and MacNeill 1980)			<i>Poa trivialis</i> L. + Rough blue grass	SE3	CP HV
<i>Phleum pratense</i> L. + Timothy	SE5	CP HV RC BT R	<i>Puccinellia distans</i> (Jacq.) Parl. +N Reflected saltmarsh grass	SE5	HV
<i>Phragmites australis</i> (Cav.) Trin. ex Steud. Common reed	S5	CP	<i>Schizachyrium scoparium</i> (Michx.) Nees Little bluestem	S4	CP HV R
Molecular work on this species indicates that both native and exotic genotypes are present in North America. Plants from Cootes Paradise included in this study belong to the native genotype (Saltonstall 2002).			[ <i>Andropogon scoparium</i> Michx. var. <i>neomexicanus</i> Hitchc.]		
<i>Poa alsodes</i> A. Gray Grove meadow grass	S4	CP HV	<i>Secale cereale</i> L. + Cereal rye	SE3	W
<i>Poa annua</i> L. + Annual blue grass	SE5	W	<i>Setaria pumila</i> (Poir.) Schult. + Yellow foxtail [ <i>S. glauca</i> (L.) Beauv.]	SE5	CP HV RC BT R

<i>Setaria verticillata</i> (L.) P. Beauv. + Whorled foxtail	SE4	W	<i>Zizania palustris</i> L. Northern wild-rice [ <i>Z. aquatica</i> L. var. <i>angustifolia</i> Hitchc.] The <i>Z. aquatica</i> in Smith et al. (2000) is var. <i>angustifolia</i> = <i>Z. palustris</i> .	S4	CP HV
<i>Setaria viridis</i> (L.) P. Beauv. +H Green foxtail	SE5	W	<b>Bur-reed family</b> <i>Sparganium emersum</i> Rehmann ssp. <i>emersum</i> X Green-fruited bur-reed [Likely includes both ssp. <i>emersum</i> and ssp. <i>acaule</i> . Includes specimens misidentified as <i>S. angustifolium</i> .]	S5	CP
<i>Sorghastrum nutans</i> (L.) Nash Indian grass [ <i>S. avenaceum</i> (Michx.) Nash ex Britt.]	S4	CP HV R	<i>Sparganium eurycarpum</i> Engelm. ex A. Gray Large bur-reed [Includes all specimens previously misidentified as <i>S. americanum</i> .]	S5	CP HV
<i>Sorghum bicolor</i> (L.) Moench ssp. <i>bicolor</i> +N Sorghum	SE1	W	<b>Cat-tail family</b> <i>Typha angustifolia</i> L. + Narrow-leaved cattail	SE5	CP HV
<i>Spartina pectinata</i> Link H Tall cord grass A single known location persists along the railway corridor.	S4	CP	<i>Typha latifolia</i> L. Broad-leaved cattail	S5	CP HV
<i>Sphenopholis intermedia</i> (Rydb.) Rydb. Slender wedge grass	S4S5	CP R	<i>Typha X glauca</i> Godron + Hybrid cattail See Kuehn 1998.	SE5	CP HV
<i>Sphenopholis nitida</i> (Biehler) Scribn. Slender Eaton's grass	S1	CP HV	<b>Water-hyacinth family</b> <i>Heteranthera dubia</i> (Jacq.) MacMill. H Water star-grass Rediscovered in 1999.	S5	CP
<i>Sporobolus cryptandrus</i> (Torr.) A. Gray Sand dropseed	S4	R	<i>Pontederia cordata</i> L. +PH Pickerel weed	S5	CP HV
<i>Sporobolus neglectus</i> Nash Overlooked dropseed	S4	R	Not noted in surveys of Cootes from the 1940s. Some specimens are obviously mislabelled. Specimens may all originate from planted stock (Lamoureux, 1963). It was planted in Cootes and Grindstone Creek in the 1990s and 2000s.		
<i>Sporobolus vaginiflorus</i> (Torr. ex A. Gray) Torr. ex Alph. Wood N Ensheathed dropseed	S4	W			
<i>Trisetum melicoides</i> (Michx.) Vasey ex Scribn. Melica-leaf false oats	S3S4	CP HV			
<i>Triticum aestivum</i> L. + Summer wheat	SE1	R W			

Lily family		Liliaceae			
<i>Allium canadense</i> L. var. <i>canadense</i> * Wild onion	S5	CP	<i>Maianthemum stellatum</i> (L.) Link Star-flowered false Solomon's seal [ <i>Smilacina stellata</i> (L.) Desv. var. <i>stellata</i> ]	S5	CP HV
<i>Asparagus officinalis</i> L. + Asparagus	SE5	CP HV RC BT	<i>Medeola virginiana</i> L. Indian cucumber-root	S5	CP HV
<i>Clintonia borealis</i> (Aiton) Raf. * Bluebead-lily	S5	CP	<i>Ornithogalum umbellatum</i> L. + Summer snowflake	SE3	CP RC
<i>Convallaria majalis</i> L. +H Lily-of-the-valley Persisting at a few locations.	SE5	CP HV RC	<i>Polygonatum biflorum</i> (Walter) Ell. * Solomon's seal	S4	CP
<i>Disporum lanuginosum</i> (Michx.) Nicholson * Yellow mandarin	S4	CP HV	<i>Polygonatum pubescens</i> (Willd.) Pursh Hairy Solomon's seal	S5	CP HV RC
<i>Erythronium americanum</i> Ker Gawl. ssp. <i>americanum</i> Trout lily	S5	CP HV	<i>Streptopus roseus</i> Michx. * Rose twisted-stalk	S5	CP HV
<i>Hemerocallis fulva</i> (L.) L. + Orange day-lily	SE5	CP RC BT R	<i>Trillium erectum</i> L. * Red trillium	S5	CP RC
<i>Hypoxis hirsuta</i> (L.) Covas XH Yellow star-grass	S3	CP	<i>Trillium grandiflorum</i> (Michx.) Salisb. White trillium	S5	CP HV RC BT
<i>Lilium michiganense</i> Farw. Michigan lily [ <i>L. canadense</i> L. var. <i>michiganense</i> (Farw.) Boivin & Cody]	S5	CP HV BT	<i>Uvularia grandiflora</i> Sm. Large-flowered bellwort	S5	CP HV RC
<i>Lilium philadelphicum</i> L. Wood lily	S5	CP RC	<b>Iris family</b>	<b>Iridaceae</b>	
<i>Maianthemum canadense</i> Desf. Wild lily-of-the-valley	S5	CP HV RC	<i>Iris pseudacorus</i> L. + Yellow-flag	SE3	CP HV
<i>Maianthemum racemosum</i> (L.) Link ssp. <i>racemosum</i> False Solomon's seal [ <i>Smilacina racemosa</i> (L.) Desv. var. <i>racemosa</i> ]	S5	CP HV RC	<i>Iris versicolor</i> L. Blue-flag	S5	CP HV
			<i>Iris virginica</i> L. * Southern blue-flag	S5	CP
			<i>Sisyrinchium montanum</i> Greene Blue-eyed-grass	S5	CP HV RC

Catbrier family	Smilacaceae		
<i>Smilax herbacea</i> L.			
Carrión flower	S4	CP HV RC	
Smilax <i>hispida</i> Muhlenb. ex Torr.			
Bristly greenbrier [ <i>S. tamnoides</i> L. var. <i>hispida</i> (Muhl.) Fern.]	S4	CP	
Yam family			Dioscoreaceae
<i>Dioscorea quaternata</i> J. Gmel.			
Wild yam [ <i>D. villosa</i> L.]	S4	CP HV RC	
Orchid family			Orchidaceae
<i>Corallorrhiza maculata</i> (Raf.) Raf.			
* Spotted coral-root	S5	CP RC	
No specimens.			
<i>Corallorrhiza odontorhiza</i> (Willd.) Nutt.			
* Autumn coral-root	S2	CP	
No specimens.			
<i>Cypripedium calceolus</i> L. var. <i>parviflorum</i> (Salisb.) Hultén			
Small yellow lady's slipper	S5	CP HV	
Only two small populations are known to persist.			
<i>Epipactis helleborine</i> (L.) Crantz			
+ Common helleborine	SE5	CP HV RC	
<i>Liparis loeselii</i> (L.) Rich. ex Lindl.			
X Fen twayblade	S4S5	CP	
<i>Spiranthes cernua</i> (L.) Rich.			
XH Nodding ladies' tresses	S5	CP	

## LITERATURE CITED

- Anderson, J. E., AND A. A. Reznicek. 1994. *Glyceria maxima* (Poaceae) in New England. *Rhodora* 96: 97–101.
- Anonymous. 1983. Royal Botanical Gardens Detailed Annual Report for 1983. Royal Botanical Gardens, Hamilton, Ontario.
- Brown, I. J., AND R. A. Sims. 1947. Conservation studies in Royal Botanical Gardens, Hamilton. No. 1. Preliminary taxonomic and ecological survey of plant life. Unpublished manuscript, Royal Botanical Gardens Archives, Hamilton, Ontario.
- Dore, W. G., AND J. McNeill. 1980. Grasses of Ontario. Monograph 26. Research Branch, Agriculture Canada, Ottawa Ontario.
- Flora of North America Editorial Committee. 2002. Flora of North America Volume 23, Magnoliophyta: Commelinidae (in part): Cyperaceae. Oxford University Press, New York, New York.
- Gaiser, L. O. 1949. Further distribution of *Butomus umbellatus* in the Great Lakes region. *Rhodora* 51: 385–390.
- Gleason, H. A., AND A. Cronquist. 1991. Manual of vascular plants of northeastern United States and adjacent Canada. New York Botanical Garden, Bronx, N.Y.
- Goodban, A. G. 1995. A checklist of the vascular plants of Hamilton-Wentworth Region, Ontario. Hamilton Naturalists' Club, Hamilton, Ontario.
- Gutteridge, R. L. 1954. *Glyceria maxima* on the Mississippi River, Ontario, 1953. *Canadian Field-Naturalist* 68: 133–135.
- Johns, R. M. 1963. Survey of the flowering vascular flora of the Rock Chapel property, Royal Botanical Gardens. Unpublished manuscript, Royal Botanical Gardens Archive, Hamilton, Ontario.
- Judd, W. W. 1950. Plants collected in Dundas Marsh, Hamilton, Ontario, 1946. *Canadian Field-Naturalist* 64: 127–130.

- Kelly, P. E., AND D. W. Larson. 2001. The Niagara Escarpment ancient tree atlas project, volume 1. University of Guelph, Department of Botany, Cliff Ecology Research Group, Guelph, Ontario.
- Kuehn, M. M. 1998. Assessment of hybridization between *Typha* spp. in North America, McMaster University, Hamilton, Ontario.
- Lamoureux, W. J. 1963. Aquatic plants for fish and wildlife, second edition. Royal Botanical Gardens Technical Bulletin #1. Royal Botanical Gardens, Hamilton, Ontario.
- Lord, J. B. 1980. A botanist in exile: Aleksander Tamsalu 1891–1960. Royal Botanical Gardens Technical Bulletin #11. Royal Botanical Gardens, Hamilton, Ontario.
- Lundholm, J. T., AND W. L. Simser. 1999. Regeneration of submerged macrophyte populations in a disturbed Lake Ontario coastal marsh. *Journal of Great Lakes Research* 25: 395–400.
- Newmaster, S. G., A. Lehela, M. J. Oldham, P. W. C. Uhlig, AND S. McMurray. 1998. Ontario Plant List. Forest Information Paper No. 123. Ontario Forest Research Institute, Sault Ste. Marie, Ontario.
- O'Hara, P. G. 2000a. Preliminary surveys and ELC habitat summaries for Red Mulberry (*Morus rubra* L.) in Dundas and Burlington, Ontario. Unpublished report submitted to Ontario Ministry of Natural Resources, Guelph District Office. Royal Botanical Gardens, Hamilton, Ontario.
- \_\_\_\_\_. 2000b. Preliminary surveys and habitat summaries for Bashful Bulrush, *Trichophorum planifolium* (Spreng.) Palla at Cootes Paradise in Hamilton, Ontario. Unpublished report submitted to Ontario Ministry of Natural Resources, Guelph District Office. Royal Botanical Gardens, Hamilton, Ontario.
- Painter, D. S., K. J. McCabe, AND W. L. Simser. 1999. Past and present limnological conditions in Cootes Paradise affecting aquatic vegetation. Royal Botanical Gardens Technical Bulletin #13. Royal Botanical Gardens, Hamilton, Ontario.
- Pase, P. R. P. 1948. Conservation studies in Royal Botanical Gardens. No. 2. Taxonomic and ecological survey of plant life. Unpublished manuscript, no copy located.
- Pomfret, B., AND J. Benkhuyzen. 1993. Royal Botanical Gardens Ecology Department progress report: 1993 wildlife and vegetation monitoring results. Unpublished report. Royal Botanical Gardens, Hamilton, Ontario.
- Pringle, J. S. 1969. Checklist of the spontaneous vascular flora of the Royal Botanical Gardens, Hamilton, Ontario, Canada. Royal Botanical Gardens Technical Bulletin #4. Royal Botanical Gardens, Hamilton, Ontario.
- \_\_\_\_\_. 1973. The spread of *Vincetoxicum* species (Asclepiadaceae) in Ontario. *Canadian Field-Naturalist* 87: 27–33.
- \_\_\_\_\_. 1974. *Eupatorium altissimum*, tall thoroughwort, an addition to the flora of Canada. *Wood Duck* 27: 83–84.
- \_\_\_\_\_. 1980. *Holosteum umbellatum* (Caryophyllaceae) in Ontario. *Sida* 8: 356.
- \_\_\_\_\_. 1986a. *Tagetes minuta* L. (Asteraceae), an addition to the Flora of Canada. *Plant Press* 4: 41–42.
- \_\_\_\_\_. 1986b. Additional populations of *Eluesine indica* and *Tagetes minuta* in the Hamilton area. *Plant Press* 4: 109.
- \_\_\_\_\_. 1994. Notes on some adventive and naturalized species in the flora of Ontario. *Field Botanists of Ontario Newsletter* 7: 10–14.
- \_\_\_\_\_. 2003. A correction: *Tagetes minuta* (Asteraceae) should be deleted from the known sponatneous flora of Canada. *Field Botanists of Ontario Newsletter* 15: 11.
- Rothfels, C. J. 2003. Significant 2002 Hamilton study area plant records from Royal Botanical Gardens Herbarium (HAM). *The Wood Duck* 56: 155–161.
- Saltonstall, K. 2002. Cryptic invasion by a non-native genotype of the common reed, *Phragmites australis*, into North America. *Proceedings of the National Academy of Sciences* 99: 2445–2449.
- Senn, H. A. 1933. List of trees and shrubs. Unpublished manuscript, Royal Botanical Gardens Archives, Hamilton, Ontario.
- Simser, W. L. 1982. Changes in the aquatic biota of Cootes Paradise marsh. Royal Botanical Gardens Technical Bulletin #12. Royal Botanical Gardens, Hamilton, Ontario.

Smith, T. W. 1999. The Berry Tract: a little known botanical treasure. *Pappus* 18: 45–47.

\_\_\_\_\_. 2000a. How things have changed: new native plant records at RBG. *Pappus* 19: 27–29.

\_\_\_\_\_. 2000b. Cootes Paradise on the road to recovery. *Pappus* 19: 11–18.

\_\_\_\_\_. 2003. Recovery strategy for Few-flowered Club-rush (*Trichophorum planifolium*). Ontario Ministry of Natural Resources, Guelph District Office, Guelph, Ontario.

Smith, T. W., AND M. J. Oldham. 1999. New records for *Carex oligocarpa* in southern Ontario. *Field Botanists of Ontario Newsletter* 12: 2–3.

Smith, T. W., J. T. Lundholm, AND W. L. Simser. 2001. Wetland vegetation monitoring in Cootes Paradise: measuring the response to a Fishway/Carp Barrier. *Ecological Restoration* 19: 145–154.

Tamsalu, A. 1953. The vegetation of the southern section of Royal Botanical Gardens and perspectives for its development. Unpublished manuscript, Royal Botanical Gardens Archives, Hamilton, Ontario.

Thuring, C. E., AND T. W. Smith. 2001. Census data and ecological land classification surveys for Red Mulberry (*Morus rubra* L.) in Hamilton and Halton Regions, Ontario. Unpublished report. Royal Botanical Gardens, Hamilton, Ontario.

Wragg, L. E. 1949. The muskrat in southern Ontario. M.A. Thesis, University of Toronto, Toronto, Ontario.

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