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

BY: TYLER W. SMITH

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

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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The original checklist is now out of date and in need of revision on two fronts.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).)

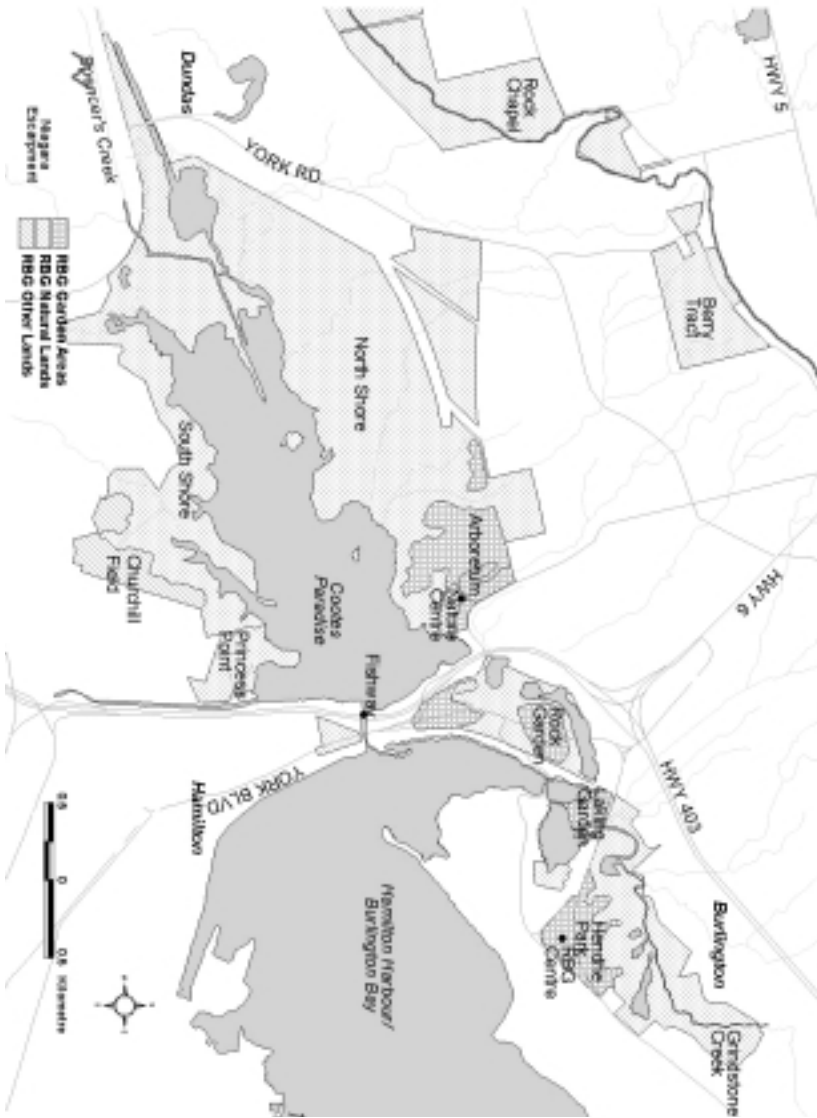
## BOTANICAL EXPLORATIONS 1969–2002

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 Benkhuisen conducted additional wetland flora surveys (Pomfret and Benkhuisen, 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-foxglove (*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 muhlenbergii*) 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 mussimii</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>Macleayi 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>Anagalis 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 eclipes</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

<i>Equisetum sylvaticum</i> L.			
H Woodland horsetail	S5	CP	HV
<i>Equisetum variegatum</i> Schleich. ex Fried., Weber & Mohr ssp. <i>variegatum</i>			
H Variegated horsetail	S5	CP	
<i>Equisetum X litorale</i> Kuhl. ex Rupr.			
H Shore horsetail	S2?	CP	HV
[ <i>E. arvense</i> X <i>E. fluviatile</i> ]			
<b>Adder's tongue family</b>		<b>Ophioglossaceae</b>	
<i>Botrychium dissectum</i> Spreng.			
* Cut-leaved grape fern	S5	CP	
<i>Botrychium virginianum</i> (L.) Swartz			
Rattlesnake fern	S5	CP	HV RC
<b>Royal fern family</b>		<b>Osmundaceae</b>	
<i>Osmunda cinnamomea</i> L.			
Cinnamon fern	S5		HV
<i>Osmunda claytoniana</i> L.			
Interrupted fern	S5	CP	HV
<i>Osmunda regalis</i> L. var. <i>spectabilis</i> (Willd.) A. Gray			
X Royal fern	S5		CP
<b>Maidenhair fern family</b>		<b>Pteridaceae</b>	
<i>Adiantum pedatum</i> L.			
Maidenhair fern	S5	CP	HV RC
<b>Bracken fern family</b>		<b>Dennstaedtiaceae</b>	
<i>Dennstaedtia punctilobula</i> (Michx.) T. Moore			
* Hay-scented fern	S5		CP
<i>Pteridium aquilinum</i> (L.) Kuhn var. <i>latiusculum</i> (Desv.) Underw.			
Bracken	S5	CP	HV

<b>Marsh fern family</b>		<b>Thelypteridaceae</b>	
<i>Phegopteris connectilis</i> (Michx.) Watt			
X Northern beech fern	S5		CP
[ <i>Thelypteris phegopteris</i> (L.) Slosson]			
<i>Phegopteris hexagonoptera</i> (Michx.) Fée			
X Broad beech fern	S3		CP
[ <i>Thelypteris hexagonoptera</i> (Michx.) Weatherby]			
Listed as special concern by COSEWIC.			
<i>Thelypteris noveboracensis</i> (L.) Nieuwl.			
* New York fern	S4S5		CP
<i>Thelypteris palustris</i> Schott var. <i>pubescens</i> (Lawson) Fern.			
Marsh fern	S5		CP HV
<b>Spleenwort family</b>		<b>Aspleniaceae</b>	
<i>Asplenium platyneuron</i> (L.) Oakes ex Eaton			
N Ebony spleenwort	S4		CP BT
Voucher photographs of plants at Berry Tract (1999) and Cootes Paradise (2000) taken.			
<i>Asplenium rhizophyllum</i> L.			
X Walking fern	S4		RC
No specimens. Appropriate habitat occurs at Rock Chapel, but recent searches have failed to locate this species.			
<b>Wood fern family</b>		<b>Dryopteridaceae</b>	
<i>Athyrium filix-femina</i> (L.) Roth var. <i>angustum</i> (Willd.) G. Lawson			
Lady fern	S5		CP HV
<i>Cystopteris bulbifera</i> (L.) Bernh.			
Bulblet fern	S5		CP HV RC
<i>Cystopteris tenuis</i> (Michx.) Desv.			
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>Athyrium thelypteroides</i> (Michx.) Desv.]		
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
<i>Dryopteris clintoniana</i> (D.C. Eaton) Dowell		
Clinton's wood fern	S4	CP
<i>Dryopteris cristata</i> (L.) A. Gray		
Crested wood fern	S5	CP HV
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
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>Dryopteris intermedia</i> (Muhlenb. ex Willd.) A. Gray		
Evergreen wood fern	S5	CP
<i>Dryopteris marginalis</i> (L.) A. Gray		
Marginal wood fern	S5	CP HV
<i>Dryopteris X triploidea</i> Wherry		
Hybrid wood fern	S3 S4	CP
[ <i>D. intermedia</i> X <i>D. carthusiana</i> ]		
<i>Gymnocarpium dryopteris</i> (L.) Newman		
X Oak fern	S5	CP
[ <i>Carpogymnium dryopteris</i> (L.) Love & Love var. <i>dryopteris</i> ]		
<i>Matteuccia struthiopteris</i> (L.) Tod. var. <i>pensylvanica</i> (Willd.) Morton		
Ostrich fern	S5	CP HV

<i>Onoclea sensibilis</i> L.		
Sensitive fern	S5	CP HV
<i>Polystichum acrostichoides</i> (Michx.) Schott		
Christmas fern	S5	CP
<b>Polypody family</b>		<b>Polypodiaceae</b>
<i>Polypodium virginianum</i> L.		
? Rock polypody fern	S5	CP
No specimens.		
<b>Floating fern family</b>		<b>Azollaceae</b>
<i>Azolla caroliniana</i> Willd.		
N Mosquito fern	S1	CP HV
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.		
<b>Pine family</b>		<b>Pinaceae</b>
<i>Larix decidua</i> Miller		
+P European larch	SE2	HV
<i>Larix laricina</i> (Du Roi) K. Koch		
Tamarack	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		Cupressaceae
<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		Taxaceae
<i>Taxus canadensis</i> Marshall American yew	S5	CP RC
Magnolia family		Magnoliaceae
<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		Lauraceae
<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		Aristolochiaceae
<i>Asarum canadense</i> L. Wild ginger	S5	CP HV RC BT
Water-lily family		Nymphaeaceae
<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		Ceratophyllaceae
<i>Ceratophyllum demersum</i> L. Coontail	S5	CP HV
Crowfoot or buttercup family		Ranunculaceae
<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 ludovici</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>Juglans nigra</i> L. Black walnut	S4	CP HV RC BT
<b>Beech family</b>		<b>Fagaceae</b>
<i>Castanea dentata</i> (Marshall) Borkh. American chestnut Listed as threatened by COSEWIC.	S3	CP
<i>Fagus grandifolia</i> Ehrh. American beech	S5	CP HV
<i>Quercus alba</i> L. White oak	S5	CP HV RC
<i>Quercus macrocarpa</i> Michx. Bur oak	S5	CP
<i>Quercus muehlenbergii</i> Engelm. Chinquapin oak	S4	CP HV RC BT
<i>Quercus rubra</i> L. Red oak	S5	CP HV RC BT
<i>Quercus velutina</i> Lam. Black oak	S4	CP HV RC
<b>Birch family</b>		<b>Betulaceae</b>
<i>Alnus glutinosa</i> (L.) Gaertn. +N European black alder No specimens.	SE4	CP
<i>Alnus incana</i> (L.) Moench spp. <i>rugosa</i> (Du Roi) Clausen Speckled alder	S5	CP
<i>Betula alleghaniensis</i> Britton Yellow birch	S5	CP HV

<i>Betula papyrifera</i> Marshall White birch Including three 1955 collections first identified as <i>B. cordifolia</i> .	S5	CP HV RC
<i>Betula pendula</i> Roth +* European weeping birch Could be planted.	SE4	RC
<i>Carpinus caroliniana</i> Walter ssp. <i>virginiana</i> (Marshall) Furlow Blue beech or ironwood	S5	CP RC
<i>Corylus americana</i> Walter American hazel	S5	CP
<i>Corylus cornuta</i> Marshall ssp. <i>cornuta</i> Beaked hazel	S5	CP
<i>Ostrya virginiana</i> (Miller) K. Koch Hop hornbeam or ironwood	S5	CP HV RC
<b>Four-o'clock family</b>		<b>Nyctaginaceae</b>
<i>Mirabilis nyctaginea</i> (Michx.) MacMill. + Heart-leaved umbrella-wort	SE4	R
<b>Goosefoot family</b>		<b>Chenopodiaceae</b>
<i>Atriplex patula</i> L. Spreading atriplex [Including all specimens previously identified as <i>A. hastata</i> L. and <i>A. littoralis</i> L.]	S5	CP R W
<i>Atriplex prostrata</i> Boucher ex DC. Spear-leaved orache	S5	CP R W
<i>Chenopodium album</i> L. var. <i>album</i> + Lamb's quarters	SE5	CP R W
<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 urticum</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 powellii</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>	<b>Portulacaceae</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> Gremlil]		
<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>Moehringia lateriflora</i> (L.) Fenzl Blunt-leaved sandwort [ <i>Arenaria lateriflora</i> L.]	S5	CP
<i>Sagina procumbens</i> L. +N Bird's-eye	SE4	W
<i>Saponaria officinalis</i> L. + Bouncing-bet	SE5	R
<i>Silene antirrhina</i> L. Sleepy catchfly	S5	CP R
<i>Silene latifolia</i> Poir. + White campion [ <i>S. dioica</i> (L.) Clairv.]	SE5	CP HV R
<i>Silene noctiflora</i> L. +N Night-flowering catchfly	SE5	CP HV RC
<i>Silene vulgaris</i> (Moench) Garcke + Bladder campion [ <i>S. cucubalus</i> Wibel.]	SE5	HV RC R
<i>Spergularia rubra</i> (L.) J. & C. Presl +* Red sand spurrey No specimens.	SE3?	W
<i>Stellaria graminea</i> L. + Grass-leaved stitchwort	SE5	CP RC
<i>Stellaria longifolia</i> Muhlenb. ex Willd. Long-leaved stitchwort	S5	CP
<i>Stellaria longipes</i> Goldie Long-stalked chickweed	S5	CP

<i>Stellaria media</i> (L.) Vill. +N Common chickweed	SE5	CP RC R W
<b>Smartweed or buckwheat</b>		<b>Polygonaceae</b>
<i>Fagopyrum esculentum</i> Moench + Buckwheat [ <i>F. sagittatum</i> Gilib.]	SE3	CP
<i>Polygonum achoreum</i> Blake Knotweed	S5	R
<i>Polygonum amphibium</i> L. Water smartweed [Including <i>P. coccineum</i> Muhl.]	S5	CP HV
<i>Polygonum arifolium</i> L. H Halberd-leaved tearthumb	S3	CP
<i>Polygonum aviculare</i> L. + Prostrate knotweed	SE5	CP HV BT R W
<i>Polygonum convolvulus</i> L. + Black bindweed	SE5	CP HV RC R
<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>Polygonum hydropiper</i> L. + Water-pepper	SE5	CP RC BT
<i>Polygonum hydropiperoides</i> Michx. Mild water-pepper	S5	CP RC
<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
<i>Polygonum punctatum</i> Elliott Water smartweed	S5	CP
<i>Polygonum ramosissimum</i> Michx. H Bushy knotweed	S4	R W
<i>Polygonum sagittatum</i> L. Arrow-leaved tearthumb	S4	CP
<i>Polygonum scabrum</i> Moench + Green smartweed [Including most specimens previously identified as <i>P. pennsylvanicum</i> L. var. <i>laevigatum</i> ]	SEU	CP
<i>Polygonum scandens</i> L. Climbing false buckwheat	S4S5	CP
<i>Polygonum virginianum</i> L. Jumpseed [ <i>Tovara virginianum</i> (L.) Raf.]	S4	CP HV
<i>Rumex acetosella</i> L. ssp. <i>acetosella</i> + Sheep sorrel	SEU	CP HV RC R W
<i>Rumex crispus</i> L. + Curled dock	SE5	CP HV RC BT R
<i>Rumex obtusifolius</i> L. ssp. <i>obtusifolius</i> + Bitter dock	SE5	CP
<i>Rumex orbiculatus</i> A. Gray Great water dock	S4S5	CP
<i>Rumex verticillatus</i> L. Swamp dock	S4	CP

<b>St. John's-wort family</b>		<b>Clusiaceae</b>
<i>Hypericum perforatum</i> L. + Common St. John's-wort	SE5	CP HV RC BT R
<i>Hypericum punctatum</i> Lam. Spotted St. John's-wort	S5	CP HV
<b>Linden family</b>		<b>Tiliaceae</b>
<i>Tilia americana</i> L. Basswood	S5	CP RC BT
<b>Mallow family</b>		<b>Malvaceae</b>
<i>Abutilon theophrasti</i> Medik. + Velvet-leaf	SE5	CP R
<i>Alcea rosea</i> L. + Hollyhock [ <i>Althaea rosea</i> Cav.]	SE4	R
<i>Malva moschata</i> L. + Musk mallow	SE5	RC
<i>Malva neglecta</i> Wallr. + Cheeses	SE5	R W
<b>Rock-rose family</b>		<b>Cistaceae</b>
<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
<b>Violet family</b>		<b>Violaceae</b>
<i>Hybanthus concolor</i> (T.F. Forst.) Spreng. Green violet	S2	RC

The identity of specimens of stemless blue violets (*Viola sororia* etc.), as well as those specimens reported here as *V. conspersa*, are not clear.

<i>Viola affinis</i> J. Le Conte * Le Conte's Violet	S4?	CP HV
<i>Viola arvensis</i> Murray + Field pansy	SE4	RC
<i>Viola blanda</i> Willd. Sweet white violet [ <i>V. incognita</i> Brain., including specimens misidentified as <i>V. renifolia</i> Gray]	S4S5	CP
<i>Viola canadensis</i> L. Canada violet	S5	RC
<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
<i>Viola cucullata</i> Aiton * Marsh blue violet	S5	CP
<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>Viola nephrophylla</i> Greene * Northern bog violet	S4	CP
<i>Viola odorata</i> L. + Sweet violet	SE2	CP
<i>Viola pubescens</i> Aiton Downy yellow violet	S5	CP HV RC
<i>Viola rostrata</i> Pursh * Long-spurred violet	S5	CP
<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>Viola septentrionalis</i> Greene * Northern Blue Violet	SU	CP
<i>Viola sororia</i> Willd. Woolly blue violet [Including <i>V. papilionacea</i> Pursh, as well as specimens identified as <i>V. novae-angliae</i> House]	S5	CP HV RC BT
<i>Viola tricolor</i> L. + Johnny-jump-up	SE2	R
<b>Gourd family</b>		<b>Cucurbitaceae</b>
<i>Echinocystis lobata</i> (Michx.) Torr. & A. Gray Wild cucumber	S5	CP HV
<i>Sicyos angulatus</i> L. One-seeded bur-cucumber	S5	CP
<b>Willow family</b>		<b>Salicaceae</b>
<i>Populus alba</i> L. + White poplar	SE5	R
<i>Populus balsamifera</i> L. ssp. <i>balsamifera</i> Balsam poplar	S5	CP HV R
<i>Populus deltoides</i> Bartram ex Marshall ssp. <i>deltoides</i> Eastern cottonwood	SU	CP HV RC R
<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 amygdaloides</i> Anderss. Peach-leaved willow	S5	CP
<i>Salix bebbiana</i> Sarg. Bebb's willow	S5	CP
<i>Salix cordata</i> Michx. H Heart-leaf willow	S4S5	CP
<i>Salix discolor</i> Muhlenb. Pussy willow	S5	CP HV R
<i>Salix eriocephala</i> Michx. Missouri willow [ <i>S. rigida</i> Muhl.]	S5	CP HV RC R
<i>Salix exigua</i> Nutt. Sandbar willow [ <i>S. interior</i> Rowlee]	S5	CP RC R
<i>Salix fragilis</i> L. + Crack willow	SE5	CP R
<i>Salix humilis</i> Marshall Upland willow [Including specimens misidentified as <i>S. candida</i> Fluegge]	S5	CP HV
<i>Salix lucida</i> Muhlenb. Shining willow	S5	R
<i>Salix myricoides</i> Muhlenb. H Blue-leaved willow	S3	CP
<i>Salix nigra</i> Marshall Black willow	S4?	CP HV R

<i>Salix pentandra</i> L. + Bay-leaved willow	SE2	CP
<i>Salix petiolaris</i> Sm. Slender willow	S5	CP
<i>Salix purpurea</i> L. +H Basket willow Numerous collections from the 1950s, and recollected in 1999.	SE4	CP HV
<i>Salix X rubens</i> Schrank +N Reddish willow	SE4	HV
<i>Salix X sepulcralis</i> Simonk. +H Hybrid willow	SE2	CP HV
<b>Caper family</b>		<b>Capparidaceae</b>
<i>Cleome hassleriana</i> Chodat + Cleome	SE1	W
<i>Polanisia dodecandra</i> (L.) DC. Clammyweed	S4	R
<b>Mustard family</b>		<b>Brassicaceae</b>
<i>Alliaria petiolata</i> (M. Bieb.) Cavara & Grande + Garlic mustard [ <i>A. officinalis</i> Andrz.]	SE5	CP HV RC
<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>Arabis divaricarpa</i> A. Nelson var. <i>divaricarpa</i> Spreading rock-cress	S5	RC
<i>Arabis hirsuta</i> (L.) Scop. ssp. <i>adpressipilis</i> (M. Hopk.) Hultén Hairy rock-cress [Including four specimens previously misidentified as <i>A. hirsuta</i> ssp. <i>pyncocarpa</i> ]	S1	CP RC
<i>Arabis laevigata</i> (Muhlenb. ex Willd.) Poir. N Smooth rock-cress	S5	CP
<i>Armoracia rusticana</i> (Lam.) P. Gaertn., Meyer & Scherb. + Horseradish An occasional weed, probably not fully naturalized.	SE4	HV W
<i>Barbarea vulgaris</i> R. Br. + Yellow rocket	SE5	CP HV RC BT R
<i>Berteroa incana</i> (L.) DC. + Hoary alyssum	SE5	HV R W
<i>Brassica juncea</i> (L.) Czern. + Indian mustard	SE5	CP W
<i>Brassica napus</i> L. + Rape	SE1	R
<i>Brassica nigra</i> (L.) Koch + Black mustard	SE5	CP HV
<i>Brassica rapa</i> L. + Wild turnip	SE5	CP R
<i>Camelina microcarpa</i> Andr. ex DC. + Small-fruited false flax	SE5	CP HV R W

<i>Camelina sativa</i> (L.) Crantz + Gold-of-pleasure	SE3	CP
<i>Capsella bursa-pastoris</i> (L.) Medik. + Shepherd's purse	SE5	CP HV RC R W
<i>Cardamine bulbosa</i> (Schreb. ex Muhlenb.) B.S.P. Bulbous cress	S4	HV
<i>Cardamine concatenata</i> (Michx.) Schwein. Cut-leaved toothwort [ <i>Dentaria laciniata</i> Muhl.]	S5	CP HV RC
<i>Cardamine diphylla</i> (Michx.) Alph. Wood Common toothwort [ <i>Dentaria diphylla</i> Michx.]	S5	CP HV
<i>Cardamine douglassii</i> Britton Purple cress	S4	CP HV
<i>Cardamine hirsuta</i> L. +N Hairy bitter-cress	SE3	W
<i>Cardamine impatiens</i> L. +N Cardamine	SE1	CP
<i>Cardamine pennsylvanica</i> Muhlenb. ex Willd. Pennsylvania bitter-cress [All RBG collections of <i>C. pratensis</i> L. are misidentifications, mostly referable to <i>C. pennsylvanica</i> .]	S5	CP HV
<i>Coronopus didymus</i> (L.) J.E.Sm. +N Lesser wart-cress	SE1	W
<i>Descurainia sophia</i> (L.) Webb ex Prantl +N Flixweed	SE5	W
<i>Diplotaxis muralis</i> (L.) DC. +H Wall-rocket	SE1	W

<i>Diplotaxis tenuifolia</i> (L.) DC. + Slender-leaved wall-rocket	SE5	CP R
<i>Erophila verna</i> (L.) Chevall. + Whitlow-grass [ <i>Draba verna</i> L.]	SE4	W
<i>Eruca vesicaria</i> (L.) Cav. ssp. <i>sativa</i> (Miller) Thell. + Garden rocket [ <i>E. sativa</i> Mill.]	SE1	W
<i>Erucastrum gallicum</i> (Willd.) O. Schulz + Dog mustard	SE5	R
<i>Erysimum cheiranthoides</i> L. ssp. <i>cheiranthoides</i> + Wormseed mustard	SE5	CP HV RC R W
<i>Hesperis matronalis</i> L. + Dame's rocket	SE5	CP HV RC
<i>Lepidium campestre</i> (L.) R. Br. + Field cress	SE5	CP HV RC R W
<i>Lepidium densiflorum</i> Schrad. + Common pepper-grass	SE5	R
<i>Lepidium ruderale</i> L. + Narrow-leaved pepper-grass	SE3	R
<i>Lepidium virginicum</i> L. Virginia pepper-grass	S5	CP R W
<i>Lobularia maritima</i> (L.) Desv. +H Sweet alyssum	SE2	HV
<i>Nasturtium microphyllum</i> (Boenn.) Reichb. + Water-cress	SE5	CP HV RC
<i>Rorippa palustris</i> (L.) Besser ssp. <i>fernaldiana</i> (Butters & Abbe) Jonsell Marsh yellow-cress	S5	CP

<i>Rorippa palustris</i> (L.) Besser ssp. <i>hispida</i> (Desv.) Jonsell Hispid yellow-cress	S5	CP HV
<i>Rorippa sylvestris</i> (L.) Besser + Creeping yellow-cress	SE5	CP
<i>Sinapis arvensis</i> L. + Charlock [ <i>Brassica kaber</i> (D.C.) Wheeler var. <i>schkuhriana</i> (Reich.) Wheeler]	SE5	CP HV R W
<i>Sisymbrium altissimum</i> L. + Tall tumble-mustard	SE5	CP HV R W
<i>Sisymbrium loeselii</i> L. + Tall hedge mustard	SE2	R
<i>Sisymbrium officinale</i> (L.) Scop. + Hedge mustard	SE5	CP R W
<i>Thlaspi arvense</i> L. + Field penny-cress	SE5	CP HV RC R W
<b>Heath family</b>		<b>Ericaceae</b>
<i>Gaultheria procumbens</i> L. Wintergreen	S5	CP HV RC
<i>Gaylussacia baccata</i> (Wangenh.) K. Koch Black huckleberry	S4	CP HV RC
<i>Vaccinium angustifolium</i> Aiton Low sweet blueberry	S5	CP HV RC
<i>Vaccinium pallidum</i> Aiton Pale blueberry [ <i>V. vacillans</i> Kalm. ex Torr.]	S4	CP HV RC
<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 thyrsoflora</i> L. * Tufted loosestrife	S5	CP
<i>Samolus valerandi</i> L. ssp. <i>parviflorus</i> (Raf.) Hultén N* Brookweed First collected in 1998.	S4	CP
<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 cynosbati</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. Ditch stonecrop	S5	CP HV
<i>Saxifraga virginensis</i> Michx. Early saxifrage	S5	CP HV RC BT
<i>Tiarella cordifolia</i> L. Foamflower	S5	CP HV
<b>Rose family</b>		<b>Rosaceae</b>
<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 [Specimens previously misidentified as <i>A. striata</i> Michx.]	S4	CP HV RC
<i>Amelanchier alnifolia</i> (Nutt.) Nutt. ex R. Roem. Saskatoon berry [ <i>A. humilis</i> Wieg. var. <i>humilis</i> ]	S4?	CP HV RC
<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</i> X <i>wiegandii</i> Nielsen ? Wiegand's juneberry [ <i>A. arborea</i> X <i>A. sanguinea</i> ?] Most specimens have been referred to other taxa.	S1?	RC

The following treatment of *Crataegus* follows Dr. Phipp'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.

<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 gravis</i> Ashe ? Heavily-laden hawthorn	SR	CP
<i>Crataegus holmesiana</i> Ashe Holmes hawthorn	S4S5	CP
<i>Crataegus macracantha</i> Lodd. Large-thorned hawthorn	S5	CP HV
<i>Crataegus macrosperma</i> Ashe Variable thorn [Including plants previously identified as <i>C. iracunda</i> ]	S5	CP RC
<i>Crataegus margaretta</i> Ashe Mrs. Ashe's thorn	SH	HV
<i>Crataegus monogyna</i> Jacq. + English hawthorn	SE5	CP
<i>Crataegus pedicellata</i> Sarg. Scarlet hawthorn [Including all plants previously identified as <i>C. mollis</i> Scheele var. <i>mollis</i> ]	S4	CP HV
<i>Crataegus pringlei</i> Sarg. Pringle's hawthorn	S5	
<i>Crataegus pruinosa</i> (Wendl. f.) K. Koch Waxy-fruited thorn	S4?	CP RC
<i>Crataegus punctata</i> Jacq. Large-fruited thorn	S5	CP HV RC BT
<i>Crataegus scabrida</i> Sarg. Hawthorn		CP
<i>Crataegus schuettei</i> Ashe Schuette's hawthorn	S4	CP

<i>Crataegus succulenta</i> Schrad. ex Link Long-spined thorn	S4S5	CP RC
<i>Fragaria vesca</i> L. ssp. <i>americana</i> (Porter) Staudt Woodland strawberry	S5	CP RC R
<i>Fragaria virginiana</i> Miller ssp. <i>virginiana</i> Field strawberry	SU	CP HV RC BT R
<i>Geum aleppicum</i> Jacq. Yellow avens [ <i>G. macrophyllum</i> Willd. records from Cootes Paradise are likely based on misidentifications of <i>G. aleppicum</i> .]	S5	CP
<i>Geum canadense</i> Jacq. White avens	S5	CP RC BT
<i>Geum laciniatum</i> Murray Rough avens	S4	CP HV R
<i>Geum urbanum</i> L. +N Wood avens No specimens.	SE2	CP HV R
<i>Malus coronaria</i> (L.) Miller Wild crabapple [ <i>Pyrus coronaria</i> L. var. <i>dasycalyx</i> (Rehd.) Fern.]	S4	CP R
<i>Malus pumila</i> Miller + Common crabapple [ <i>Pyrus malus</i> L.]	SE5	CP HV RC BT R
<i>Porteranthus trifoliatum</i> (L.) Britton X Bowman's root [ <i>Gillenia trifoliata</i> (L.) Moench.]	SX	CP HV
<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. + Rough cinquefoil	SE5	CP HV R
<i>Potentilla palustris</i> (L.) Scop. Marsh cinquefoil	S5	CP HV
<i>Potentilla paradoxa</i> Nutt. XH Bushy cinquefoil	S3	HV
Collections from the 1950s were not included in the first edition checklist. This species is no longer found on RBG property.		
<i>Potentilla recta</i> L. + Rough-fruited cinquefoil	SE5	CP HV RC R
<i>Potentilla simplex</i> Michx. Old-field cinquefoil	S5	CP HV RC
[Including all specimens previously identified as <i>P. canadensis</i> L. var. <i>canadensis</i> ]		
<i>Potentilla inclinata</i> Vill. H Downy cinquefoil	SE4	CP W
<i>Prunus americana</i> Pursh American plum	S4	CP RC R
<i>Prunus avium</i> (L.) L. + Sweet cherry	SE4	CP RC
<i>Prunus cerasus</i> L. + Sour cherry	SE1	R
<i>Prunus domestica</i> L. ssp. <i>instititia</i> L. (Poir.) + Damson plum	SE2	R
[ <i>P. instititia</i> L.]		
<i>Prunus nigra</i> Aiton Canada plum	S4	CP HV RC R
<i>Prunus pensylvanica</i> L. f. * Pin cherry	S5	CP HV

<i>Prunus serotina</i> Ehrh. Black cherry	S5	CP HV RC
<i>Prunus spinosa</i> L. + Black thorn	SE1	R
<i>Prunus virginiana</i> L. ssp. <i>virginiana</i> Choke cherry	S5	CP HV RC
<i>Pyrus communis</i> L. + Common pear	SE4	CP RC R
<i>Rosa acicularis</i> Lindl. ssp. <i>sayi</i> (Schwein.) W. Lewis Prickly rose	S5	CP
<i>Rosa blanda</i> Aiton Smooth rose	S5	CP HV RC BT
<i>Rosa canina</i> L. + Dog rose	SE2	CP RC BT
<i>Rosa carolina</i> L. Pasture rose	S4	CP HV RC BT
<i>Rosa multiflora</i> Thunb. ex Murray + Multiflora rose	SE4	CP
<i>Rosa palustris</i> Marshall Swamp rose	S5	CP HV RC
<i>Rosa rubiginosa</i> L. + Sweetbrier rose	SE4	CP BT
[ <i>R. eglantheria</i> L.]		
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.		
<i>Rubus allegheniensis</i> Porter Common blackberry	S5	CP HV

<i>Rubus enslenii</i> Tratt. Enslen's raspberry	SU	CP
<i>Rubus flagellaris</i> Willd. Prickly raspberry	S4	CP HV
<i>Rubus frondosus</i> Bigelow Leafy raspberry	SU	CP
<i>Rubus hispidus</i> L. Trailing blackberry	S4S5	CP
<i>Rubus idaeus</i> L. ssp. <i>melanolasius</i> (Dieck) Focke Wild red raspberry	S5	CP HV RC BT
<i>Rubus occidentalis</i> L. Black raspberry	S5	CP HV RC BT
<i>Rubus odoratus</i> L. Purple flowering raspberry	S5	CP HV RC
<i>Rubus pensilvanicus</i> Poir. Pennsylvania raspberry	SU	CP
<i>Rubus pubescens</i> Raf. Dwarf raspberry	S5	CP HV
<i>Rubus setosus</i> Bigelow Bristly raspberry	S4?	CP
<i>Sorbus aucuparia</i> L. + European mountain-ash	SE4	CP
<i>Sorbus decora</i> (Sarg.) C.K. Schneid. Showy mountain-ash	S5	CP
<i>Spiraea alba</i> Du Roi Meadowsweet	S5	CP HV

<i>Spiraea trilobata</i> L. + Spiraea No specimens.	SE1	CP R
<i>Spiraea X vanhouttei</i> (Briot) Zabel H Vanhoutt's meadowsweet	SE1	CP HV R
<i>Waldsteinia fragarioides</i> (Michx.) Tratt. Barren strawberry	S5	CP RC BT
<b>Legume family</b>		<b>Fabaceae</b>
<i>Amphicarpaea bracteata</i> (L.) Fern. Hog peanut	S5	CP HV
<i>Apios americana</i> Medik. Groundnut	S5	CP HV
<i>Astragalus canadensis</i> L. * Canada milkvetch	S4	CP
<i>Colutea arborescens</i> L. + Bladder senna	SE1	R
<i>Coronilla varia</i> L. +NCrown vetch	SE5	CP W
<i>Desmodium canadense</i> (L.) DC. Canadian tick-trefoil [ <i>Meibomia canadensis</i> (L.) Ktze.]	S4	CP HV RC
<i>Desmodium cuspidatum</i> (Muhlenb. ex Willd.) DC. ex Louden var. <i>cuspidatum</i> Large-bracted tick-trefoil [ <i>Meibomia cuspidata</i> (Muhl.) Ktze.]	S3	CP RC
<i>Desmodium glutinosum</i> (Muhlenb. ex Willd.) Alph. Wood Pointed-leaved tick-trefoil	S4	CP HV RC
<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
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>Meibomia paniculata</i> (L.) Ktze. var. <i>paniculata</i> ]			
<i>Gleditsia triacanthos</i> L.			
P Honey locust	S2		CP
<i>Lathyrus latifolius</i> L.			
+ Everlasting pea	SE4		CP
<i>Lathyrus palustris</i> L.			
Marsh vetchling	S5		CP
<i>Lespedeza capitata</i> Michx.			
Round-headed bush-clover	S4		HV
<i>Lespedeza hirta</i> (L.) Hornem.			
Hairy bush-clover	S4		CP
<i>Lotus corniculatus</i> L.			
+N Bird's-foot trefoil	SE5		CP
<i>Medicago lupulina</i> L.			
+ Black medick	SE5	CP HV RC BT R	
<i>Medicago sativa</i> L. ssp. <i>sativa</i>			
+ Alfalfa	SE5	CP HV RC R	
<i>Melilotus alba</i> Medik.			
+ White sweet-clover	SE5	CP RC BT R	
<i>Melilotus officinalis</i> (L.) Pall.			
+ Yellow sweet-clover	SE5	CP HV R	
<i>Robinia pseudo-acacia</i> L.			
+H Black locust	SE5	CP RC	
Planted and naturalizing.			

<i>Robinia viscosa</i> Vent. ex Vauq.			
+N Clammy locust	SE2		BT
<i>Trifolium aureum</i> Pollich			
+ Hop clover	SE5		CP R
[ <i>T. agarium</i> L.]			
<i>Trifolium hybridum</i> L. ssp. <i>elegans</i> (Savi) Asch. & Graebn.			
+ Alsike clover	SE5	CP HV RC R	
<i>Trifolium pratense</i> L.			
+ Red clover	SE5	CP RC BT R	
<i>Trifolium repens</i> L.			
+ White clover	SE5	CP HV RC BT R	
<i>Vicia caroliniana</i> Walter			
H Carolina vetch	S2		CP
<i>Vicia cracca</i> L.			
+ Cow vetch	SE5	CP HV RC BT R	
<i>Vicia sativa</i> L. ssp. <i>nigra</i> (L.) Ehrh.			
+ Spring vetch	SE5	CP HV RC BT	
[ <i>V. angustifolia</i> Reichard.]			
<i>Vicia tetrasperma</i> (L.) Schreb.			
+ Sparrow vetch	SE5	CP HV RC	
<i>Vicia villosa</i> Roth			
+ Hairy vetch	SE5	CP HV R	
<b>Oleaster family</b>			<b>Elaeagnaceae</b>
<i>Elaeagnus angustifolia</i> L.			
+N? Russian olive	SE5		CP
<i>Shepherdia canadensis</i> (L.) Nutt.			
Canada soapberry	S5		HV

Water-milfoil family		Haloragaceae	
<i>Myriophyllum sibiricum</i> Kom.			
H	Pale water-milfoil	S5	CP
Specimens originally determined as <i>M. farwellii</i> .			
<i>Myriophyllum spicatum</i> L.			
+	Eurasian water-milfoil	SE5	CP
No specimens. Very abundant in Cootes Paradise in 1998, otherwise rare.			
<i>Myriophyllum verticillatum</i> L.			
*	Whorled water-milfoil	S5	CP
Loosestrife family		Lythraceae	
<i>Decodon verticillatus</i> (L.) Elliott			
	Water willow	S5	CP HV
<i>Lythrum alatum</i> Pursh			
N	Winged loosestrife	S3	BT
Native in Hamilton, this species dispersed naturally into RBG sanctuaries sometime between 1969 and the 1980s.			
<i>Lythrum salicaria</i> L.			
+	Purple loosestrife	SE5	CP HV
Evening-primrose family		Onagraceae	
<i>Circaea alpina</i> L.			
?	Smaller enchanter's nightshade	S5	CP
<i>Circaea lutetiana</i> L. ssp. <i>canadensis</i> (L.) Aschers. & Magnusson			
	Enchanter's nightshade	S5	CP HV RC
[ <i>C. quadrsulcata</i> (Maxim.) Franch.&Sav. var. <i>canadensis</i> Hara.]			
<i>Epilobium angustifolium</i> L.			
	Fireweed	S5	CP
<i>Epilobium ciliatum</i> Raf. ssp. <i>ciliatum</i>			
	Ciliate willow-herb	S5	CP

<i>Epilobium ciliatum</i> Raf. ssp. <i>glandulosum</i> (Lehm.) Hoch & Raven			
	Northern willow-herb	SU	CP HV
[ <i>E. glandulosum</i> Lehm. var. <i>adenocaulon</i> (Haussk.) Fern.]			
<i>Epilobium coloratum</i> Biehler			
	Purple-veined willow-herb	S5	CP BT
<i>Epilobium hirsutum</i> L.			
+	Hairy willow-herb	SE5	CP HV BT
<i>Epilobium leptophyllum</i> Raf.			
	Narrow-leaved willow-herb	S5	CP
<i>Epilobium parviflorum</i> Schreb.			
+N	Sparse-flowered willow-herb	SE4	CP HV
<i>Ludwigia palustris</i> (L.) Elliott			
	Water purslane	S5	CP
<i>Oenothera biennis</i> L.			
	Common evening primrose	S5	CP RC BT R
[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>Oenothera parviflora</i> L.			
	Small-flowered evening primrose	S5?	RC R
<i>Oenothera perennis</i> L.			
	Sundrops	S4S5	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. ? Bunchberry	S5	CP
Two student collections from 1961, possibly mislabelled.		
<i>Cornus florida</i> L. Eastern flowering dogwood	S4	CP
Planted and natural populations.		
<i>Cornus foemina</i> Miller ssp. <i>racemosa</i> (Lam.) J.S. Wilson Gray dogwood	S5	CP HV RC BT
<i>Cornus rugosa</i> Lam. Round-leaved dogwood	S5	CP HV RC
<i>Cornus stolonifera</i> Michx. Red-osier dogwood	S5	CP HV RC
<i>Cornus</i> X <i>arnoldiana</i> Rehd. Arnold's dogwood [ <i>C. amomum</i> X <i>C. foemina</i> ]	S1	CP HV
<b>Sandalwood family</b>		<b>Santalaceae</b>
<i>Comandra umbellata</i> (L.) Nutt. Bastard toad-flax	S5	CP HV RC
<b>Staff-tree family</b>		<b>Celastraceae</b>
<i>Celastrus scandens</i> L. Climbing bittersweet	S5	CP HV
<i>Euonymus atropurpurea</i> Jacq. var. <i>atropurpurea</i> P? Burning bush	S3	CP
<i>Euonymus europaea</i> L. +N Spindle tree	SE2	CP
<i>Euonymus fortunei</i> (Turcz.) Hand.-Mazz. +N Euonymus	SE1	CP
No specimens. Establishing from yard waste dumped in ravines.		

<i>Euonymus obovata</i> Nutt. Running strawberry-bush	S5	CP RC
<i>Euonymus planipes</i> +N? Euonymus	SE1	CP
<b>Holly family</b>		<b>Aquifoliaceae</b>
<i>Ilex verticillata</i> (L.) A. Gray * Winterberry	S5	CP
<b>Spurge family</b>		<b>Euphorbiaceae</b>
<i>Acalypha virginica</i> L. var. <i>rhomboidea</i> (Raf.) Cooperrider Three-seeded mercury [ <i>A. rhomboidea</i> Raf.]	S5	CP HV W
<i>Chamaesyce glyptosperma</i> (Engelm.) Small + Ridge-seeded spurge [ <i>Euphorbia glyptosperma</i> Engelm.]	SE5	R
<i>Chamaesyce maculata</i> (L.) Small + Spotted spurge [ <i>Euphorbia maculata</i> L.]	SE5	R
<i>Chamaesyce nutans</i> (Lag.) Small Nodding spurge [ <i>Euphorbia nutans</i> Lag.]	S4S5	R W
<i>Chamaesyce vermiculata</i> (Raf.) House H Hairy spurge	S5	W
<i>Euphorbia dentata</i> Michx. + Toothed spurge	SE4	R
<i>Euphorbia helioscopia</i> L. + Sun spurge	SE3	R
<i>Euphorbia pepplus</i> L. + Petty spurge	SE4	R
<i>Euphorbia platyphyllos</i> L. + Broad-leaved spurge	SE4	R

Buckthorn family		Rhamnaceae
<i>Ceanothus americanus</i> L. New Jersey tea	S4	CP HV RC
<i>Rhamnus cathartica</i> L. + Common buckthorn	SE5	CP RC R
<i>Rhamnus frangula</i> L. + Glossy buckthorn	SE5	CP
Grape family		Vitaceae
<i>Parthenocissus inserta</i> (A. Kern.) Fritsch Virginia-creeper	S5	CP HV RC BT
<i>Vitis aestivalis</i> Michx. * Summer grape	S4	CP HV
<i>Vitis riparia</i> Michx. Riverbank grape	S5	CP HV RC BT R
Flax family		Linaceae
<i>Linum perenne</i> L. + Perennial flax	SE3	CP
<i>Linum usitatissimum</i> L. + Common flax	SE3	CP R
Milkwort family		Polygalaceae
<i>Polygala paucifolia</i> Willd. Gay wings	S5	HV
<i>Polygala senega</i> L. * Seneca-snakeroot	S4	CP HV RC
<i>Polygala verticillata</i> L. * Whorled milkwort	S4	CP W
Bladder-nut family		Staphyleaceae
<i>Staphylea trifolia</i> L. American bladder-nut	S4	RC

Buckeye family		Hippocastanaceae
<i>Aesculus hippocastanum</i> L. +N Horse chestnut No specimens.	SE2	CP HV
Maple family		Aceraceae
<i>Acer campestre</i> L. +P Hedge maple Three records from Hendrie Valley in 1956 and 1957.	SE1	HV
<i>Acer negundo</i> L. Manitoba maple	S5	CP HV R
<i>Acer platanoides</i> L. +N Norway maple	SE5	CP HV RC R
<i>Acer rubrum</i> L. Red maple	S5	CP HV RC
<i>Acer saccharinum</i> L. Silver maple	S5	CP HV
<i>Acer saccharum</i> Marshall ssp. <i>nigrum</i> (Michx. f.) Desmarais Black maple	S4?	CP HV RC
<i>Acer saccharum</i> Marshall ssp. <i>saccharum</i> Sugar maple	S5	CP HV RC
<i>Acer spicatum</i> Lam. Mountain maple	S5	CP HV
<i>Acer X freemanii</i> E. Murr. H* Freeman's maple A single record from 1932, location unknown. Previously overlooked in the region.		
Sumac or cashew family		Anacardiaceae
<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>Toxicodendron radicans</i> (L.) Ktze. var. <i>radicans</i> ]		
<i>Rhus rydbergii</i> Small ex Rydb. Poison-ivy	S5	CP HV RC R
[ <i>Toxicodendron radicans</i> (L.) Ktze. var. <i>rydbergii</i> (Small) Erskine]		
<i>Rhus typhina</i> L. Staghorn sumac	S5	CP HV RC R
<i>Rhus vernix</i> L. X Poison sumac	S4	CP
A single plant discovered in 1970 by Dr. J.S. Pringle.		
<b>Ailanthus or quassia family</b>		<b>Simaroubaceae</b>
<hr/>		
<i>Ailanthus altissima</i> (Miller) Swingle + Tree-of-heaven	SE5	HV R
<b>Rue family</b>		<b>Rutaceae</b>
<hr/>		
<i>Zanthoxylum americanum</i> Miller American prickly-ash	S5	CP RC BT
<b>Wood-sorrel family</b>		<b>Oxalidaceae</b>
<hr/>		
<i>Oxalis corniculata</i> L. N+ Creeping wood-sorrel	SE1	W
<i>Oxalis dillenii</i> Jacq. Dillen's wood-sorrel	S5?	CP HV RC R W
<i>Oxalis stricta</i> L. Upright yellow wood-sorrel	S5	CP HV
<b>Geranium family</b>		<b>Geraniaceae</b>
<hr/>		
<i>Erodium cicutarium</i> (L.) L'Hér. ssp. <i>cutarium</i> + Stork's-bill	SE3	R W
<i>Geranium maculatum</i> L. Wild geranium	S5	CP HV RC

<i>Geranium pusillum</i> L. +N Small-flowered crane's bill	SE4	W
<i>Geranium robertianum</i> L. + Herb-robert	SE5	CP HV RC BT
<b>Meadow-foam family</b>		<b>Limnanthaceae</b>
<hr/>		
<i>Floerkea proserpinacoides</i> Willd. False mermaid-weed	S4	CP
<b>Touch-me-not or jewel-weed family</b>		<b>Balsaminaceae</b>
<hr/>		
<i>Impatiens capensis</i> Meerb. Spotted touch-me-not	S5	CP HV RC
<i>Impatiens glandulifera</i> Royle + Himalayan balsam	SE4	HV
<i>Impatiens pallida</i> Nutt. Pale touch-me-not	S5	CP HV RC
<b>Ginseng family</b>		<b>Araliaceae</b>
<hr/>		
<i>Aralia nudicaulis</i> L. Wild sarsaparilla	S5	CP HV RC
<i>Aralia racemosa</i> L. ssp. <i>racemosa</i> * Spikenard	S5	CP HV
<i>Panax trifolius</i> L. XH Dwarf ginseng	S4	CP
<b>Carrot or parsley family</b>		<b>Apiaceae</b>
<hr/>		
<i>Angelica atropurpurea</i> L. * Angelica	S5	CP HV
<i>Cicuta bulbifera</i> L. Bulblet-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>Daucus carota</i> L. + Queen Anne's lace	SE5	CP HV RC
<i>Heracleum lanatum</i> Michx. Cow-parsnip [ <i>H. maximum</i> Bartr.]	S5	CP HV
<i>Hydrocotyle americana</i> L. Water-pennywort	S5	CP
<i>Myrrhis odorata</i> (L.) Scop. +N Scented myrrhis	SE1	HV
<i>Osmorhiza claytonii</i> (Michx.) C.B. Clarke Sweet-cicely	S5	CP HV
<i>Osmorhiza longistylis</i> (Torr.) DC. Anise-root	S5	CP RC
<i>Pastinaca sativa</i> L. + Wild parsnip	SE5	CP R
<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>Sanicula marilandica</i> L. Black snakeroot	S5	CP HV
<i>Sanicula odorata</i> (Raf.) Pryer & Phillippe H Clustered snakeroot [Specimens originally referred to <i>S. marilandica</i> ]	S5	CP
<i>Sium suave</i> Walter Hemlock water-parsnip	S5	CP HV
<i>Taenidia integerrima</i> (L.) Drude Yellow pimpernel	S4	CP HV RC

<i>Torilis japonica</i> (Houtt.) DC. N Japan hedge-parsley First collected in 2000, well established in shaded floodplains.	SE4	HV
<b>Gentian family</b>		<b>Gentianaceae</b>
<i>Frasera caroliniensis</i> Walter American Columbo Found on property to be acquired by RBG in 2003.	S1	HV
<i>Gentiana andrewsii</i> Griseb. X Bottle gentian	S4	CP HV
<i>Gentianopsis crinita</i> (Froel.) Ma X Fringed gentian	S5	CP
<b>Dogbane family</b>		<b>Apocynaceae</b>
<i>Apocynum androsaemifolium</i> L. ssp. <i>androsaemifolium</i> Spreading dogbane	S5	CP HV RC
<i>Apocynum cannabinum</i> L. var. <i>cannabinum</i> Indian hemp	S5	CP
<i>Apocynum cannabinum</i> L. var. <i>hypericifolium</i> A. Gray H Clasping-leaved Indian hemp	S4?	CP R
<i>Apocynum X floribundum</i> Greene Multi-flowered dogbane [ <i>A. X medium</i> Greene; <i>A. cannabinum</i> X <i>A. androsaemifolium</i> ]	SU	CP
<i>Vinca minor</i> L. + Periwinkle Spreading vegetatively from historic plantings and dumped yard waste.	SE5	CP HV RC
<b>Milkweed family</b>		<b>Asclepiadaceae</b>
<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>Asclepias tuberosa</i> L. * Butterfly-weed	S4	CP HV R
<i>Cynanchum nigrum</i> (L.) Pers. + Black swallow-wort [ <i>Vincetoxicum nigrum</i> (L.) Moench] See Pringle (1973).	SE?	W
<i>Cynanchum rossicum</i> (Kleopov) Borhidi + Pale swallow-wort [ <i>Vincetoxicum medium</i> (R.Br.) Dcne.]	SE5	CP BT
<b>Nightshade family</b>		<b>Solanaceae</b>
<i>Datura stramonium</i> L. N+ Jimson weed	SE5	W
<i>Nicandra physalodes</i> (L.) Gaertn. + Apple-of-Peru No specimens.	SE1	R
<i>Physalis heterophylla</i> Nees Clammy ground-cherry	S4	CP BT R
<i>Solanum dulcamara</i> L. + Bittersweet nightshade	SE5	CP HV RC BT
<i>Solanum ptychanthum</i> Dunal ex DC. Eastern black nightshade [ <i>S. americanum</i> Mill.]	S5	CP R W
<b>Morning-glory family</b>		<b>Convolvulaceae</b>
<i>Calystegia sepium</i> (L.) R. Br. ssp. <i>americanum</i> (Sims) Brummitt Hedge bindweed	SU	CP HV RC
<i>Calystegia spithamea</i> (L.) Pursh ssp. <i>spithamea</i> Low bindweed	S4S5	HV

<i>Convolvulus arvensis</i> L. + Field bindweed	SE5	CP HV RC R W
<i>Cuscuta gronovii</i> Willd. ex Schultz Gronovius' dodder	S5	CP HV
<b>Buckbean family</b>		<b>Menyanthaceae</b>
<i>Nymphoides peltata</i> (S.G. Gmelin) Kuntze +N Yellow floating-heart First recorded in 1999, now established in a limited area.	SE1	CP
<b>Phlox family</b>		<b>Polemoniaceae</b>
<i>Phlox divaricata</i> L. Wild blue phlox	S4	CP HV RC
<i>Phlox paniculata</i> L. +H Garden phlox	SE2	HV
<i>Phlox subulata</i> L. ssp. <i>subulata</i> +H Moss phlox Possibly an introduction from the cemetery.	SE2	CP R
<b>Water-leaf family</b>		<b>Hydrophyllaceae</b>
<i>Hydrophyllum canadense</i> L. N Broad-leaved water-leaf First collected in 2000.	S4	HV
<i>Hydrophyllum virginianum</i> L. Virginia water-leaf	S5	CP HV RC
<b>Borage family</b>		<b>Boraginaceae</b>
<i>Anchusa arvensis</i> (L.) M. Bieb. + Alkanet [ <i>Lycopsis arvensis</i> L.]	SE3	R W
<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>Cynoglossum officinale</i> L. + Hound's-tongue	SE5	CP HV RC R W
<i>Echium vulgare</i> L. + Viper's bugloss	SE5	CP HV RC BT R
<i>Hackelia virginiana</i> (L.) I.M. Johnston Stickseed	S5	CP RC
<i>Lappula squarrosa</i> (Retz.) Dumort. ssp. <i>squarrosa</i> H Two-row stickweed	S5	CP HV
<i>Myosotis discolor</i> Pers. + Two-coloured forget-me-not [ <i>M. versicolor</i> (Pres.) Sm.]	SE1	CP HV W
<i>Myosotis laxa</i> Lehm. Smaller forget-me-not	S5	CP
<i>Myosotis scorpioides</i> L. + Mouse-ear scorpion-grass	SE5	CP
<i>Myosotis stricta</i> Link +N Upright forget-me-not	SE4	W
<i>Myosotis sylvatica</i> H. Hoffm. + Woodland forget-me-not	SE4	CP R
<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
<b>Lopseed family</b>		<b>Phrymaceae</b>
<i>Phryma leptostachya</i> L. Lopseed	S4S5	CP HV

<b>Vervain family</b>		<b>Verbenaceae</b>
<i>Verbena bonariensis</i> L. +N Purpletop vervain	SE1	HV
<i>Verbena hastata</i> L. Blue vervain	S5	CP HV BT
<i>Verbena urticifolia</i> L. White vervain	S5	CP HV RC BT
<b>Mint family</b>		<b>Lamiaceae</b>
<i>Agastache nepetoides</i> (L.) Kuntze Catnip giant-hyssop	S4	CP
<i>Clinopodium vulgare</i> L. Wild basil [ <i>Satureia vulgaris</i> (L.) Fritsch, var. <i>vulgaris</i> and var. <i>neogaea</i> Fern.]	S5	CP HV RC BT
<i>Collinsonia canadensis</i> L. Horsebalm	S4	CP HV RC
<i>Galeopsis tetrahit</i> L. N Common hemp-nettle	SE5	HV
<i>Glechoma hederacea</i> L. + Creeping Charlie	SE5	CP HV R W
<i>Hedeoma pulegioides</i> (L.) Pers. American pennyroyal	S4	CP
<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>Lycopus asper</i> Greene H Western water-horehound	S2	HV
<i>Lycopus europaeus</i> L. + European water-horehound	SE5	CP
<i>Lycopus uniflorus</i> Michx. Northern water-horehound	S5	CP BT
<i>Lycopus virginicus</i> L. N Virginia water-horehound	S2	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>Mentha spicata</i> L. + Spearmint	SE4	CP
<i>Mentha X piperita</i> L. + Peppermint [Including <i>M. citrata</i> Ehrh.]	SE4	CP
<i>Melissa officinalis</i> L. ssp. <i>officinalis</i> + Common balm	SE1	CP
<i>Monarda fistulosa</i> L. Wild bergamot	S5	CP HV RC BT R
<i>Nepeta cataria</i> L. + Catnip	SE5	CP HV RC R W
<i>Prunella vulgaris</i> L. ssp. <i>lanceolata</i> (W.C. Barton) Hultén Heal-all	S5	CP HV RC R
<i>Prunella vulgaris</i> L. ssp. <i>vulgaris</i> + Common heal-all	SE3	CP HV RC R

<i>Salvia pratensis</i> L. + Meadow sage	SE2	R
<i>Salvia reflexa</i> Hornem. +N Reflex-leaved sage	SE1	R
<i>Scutellaria galericulata</i> L. Hooded skullcap	S5	CP
<i>Scutellaria lateriflora</i> L. Mad-dog skullcap	S5	CP
<i>Stachys hispida</i> Pursh Rough hedge-nettle [ <i>S. tenuifolia</i> Willd., var. <i>hispida</i> (Pursh.) Fern. and var. <i>platyphylla</i> Fern.]	S4S5	CP
<i>Stachys palustris</i> L. + Hedge-nettle	SE5	CP R
<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>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
<b>Water-starwort family</b>		<b>Callitrichaceae</b>
<i>Callitriche hermaphroditica</i> L. H Water starwort A single specimen from 1946, originally misidentified as <i>Elodea nutalli</i> .	S5	CP
<b>Plantain family</b>		<b>Plantaginaceae</b>
<i>Plantago lanceolata</i> L. + English plantain	SE5	R W
<i>Plantago major</i> L. + Common plantain	SE5	RC R W

<i>Plantago rugelii</i> Decne. Rugel's plantain	S5	CP
<b>Olive family</b>		<b>Oleaceae</b>
<i>Fraxinus americana</i> L. White ash	S5	CP HV RC R
<i>Fraxinus nigra</i> Marshall Black ash	S5	CP HV
<i>Fraxinus pennsylvanica</i> Marshall Red ash	S5	CP HV
<i>Ligustrum vulgare</i> L. + Common privet	SE5	CP
<i>Syringa vulgaris</i> L. + Common lilac	SE5	CP RC R
<b>Figwort family</b>		<b>Scrophulariaceae</b>
<i>Antirrhinum majus</i> L. + Great snapdragon No specimens.	SE1	W
<i>Aureolaria flava</i> (L.) Farw. Yellow false foxglove	S3	CP
<i>Aureolaria pedicularia</i> (L.) Raf. Fern-leaved false foxglove	S3	CP HV
<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>Castilleja coccinea</i> (L.) Spreng. H Indian paintbrush	S5	CP
<i>Chaenorrhinum minus</i> (L.) Lange + Dwarf snapdragon	SE5	CP R

<i>Chelone glabra</i> L. Turtlehead	S5	CP HV RC
<i>Linaria genistifolia</i> (L.) Miller ssp. <i>dalmatica</i> (L.) Maire & Petitmengin + Toadflax [ <i>L. dalmatica</i> L.]	SE3	R
<i>Linaria vulgaris</i> Miller + Butter-and-eggs	SE5	CP RC BT R
<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>Melampyrum lineare</i> Desr. Cow-wheat	S4S5	CP HV
<i>Mimulus ringens</i> L. Monkey flower	S5	CP HV
<i>Pedicularis canadensis</i> L. Lousewort	S5	CP RC
<i>Penstemon digitalis</i> Nutt. ex Sims Foxglove beard-tongue	S4S5	HV BT
<i>Penstemon hirsutus</i> (L.) Willd. Hairy beard-tongue	S4	CP HV RC
<i>Scrophularia marilandica</i> L. Carpenter's-square figwort	S4	CP HV RC
<i>Verbascum blattaria</i> L. + Moth mullein	SE5	CP RC BT R W
<i>Verbascum phoeniceum</i> L. +H Purple mullein	SE1	CP

<i>Verbascum thapsus</i> L. + Common mullein	SE5	CP RC R
<i>Veronica americana</i> (Raf.) Schwein. ex Benth. Brooklime	S5	CP HV
<i>Veronica anagallis-aquatica</i> L. + Water speedwell	SE5	CP HV
<i>Veronica arvensis</i> L. + Corn speedwell	SE5	CP RC R W
<i>Veronica austriaca</i> L. ssp. <i>vahlII</i> +H Lance-leaved speedwell	SE1	CP HV R
Originally misidentified as <i>V. chamaedrys</i> . The only known record of this subspecies in Ontario, it may have been cultivated (Rothfels 2003).		
<i>Veronica beccabunga</i> L. + Bachbungen's speedwell	SE2	CP
<i>Veronica filiformis</i> Sm. +N Hair-like speedwell	SE2	CP
<i>Veronica longifolia</i> L. + Long-leaved speedwell	SE3	CP
<i>Veronica officinalis</i> L. + Common speedwell	SE5	CP HV RC BT
<i>Veronica peregrina</i> L. ssp. <i>peregrina</i> Purslane speedwell	S5	CP R W
<i>Veronica persica</i> Poir. + Bird's-eye speedwell	SE4	W
<i>Veronica polita</i> Fr. +N Wayside speedwell	SE4	W
<i>Veronica scutellata</i> L. Marsh speedwell	S5	CP

<i>Veronica serpyllifolia</i> L. ssp. <i>serpyllifolia</i> + Thyme-leaved speedwell	SE5	CP HV RC W
<b>Broom-rape family</b>		<b>Orobanchaceae</b>
<i>Epifagus virginiana</i> (L.) Barton Beech-drops	S5	CP HV
<i>Orobanche uniflora</i> L. X One-flowered broom-rape	S4	CP HV RC
<b>Trumpet-creeper</b>		<b>Bignoniaceae</b>
<i>Catalpa ovata</i> G. Don +H Chinese catalpa	SE1	CP
<i>Catalpa speciosa</i> Warder ex Engelm. +N Northern catalpa	SE1	CP W
<b>Bladderwort family</b>		<b>Lentibulariaceae</b>
<i>Utricularia vulgaris</i> L. Common bladderwort	S5	CP HV
<b>Bluebell family</b>		<b>Campanulaceae</b>
<i>Campanula americana</i> L. Tall bellflower	S4	CP HV RC
<i>Campanula aparinoides</i> Pursh Marsh bellflower	S5	CP
<i>Campanula rapunculoides</i> L. + Creeping bellflower	SE5	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>Lobelia spicata</i> Lam. Spiked lobelia	S4	CP
<b>Madder family</b>		<b>Rubiaceae</b>
<i>Cephalanthus occidentalis</i> L. Eastern buttonbush	S5	CP
<i>Galium aparine</i> L. Cleavers	S5	CP HV RC
<i>Galium asprellum</i> Michx. Rough bedstraw	S5	CP
<i>Galium boreale</i> L. Northern bedstraw	S5	CP HV
<i>Galium circaezans</i> Michx. White wild licorice	S5	CP HV RC
<i>Galium lanceolatum</i> Torr. Spear wild licorice	S5	CP
<i>Galium mollugo</i> L. + White bedstraw	SE5	R
<i>Galium palustre</i> L. Marsh bedstraw	S5	CP HV
<i>Galium tinctorium</i> L. Stiff marsh bedstraw [ <i>G. trifidum</i> L. var. <i>tinctorium</i> (L.) T. & G.]	S5	CP
<i>Galium trifidum</i> L. ssp. <i>trifidum</i> Small bedstraw	S5	CP
<i>Galium triflorum</i> Michx. Sweet-scented bedstraw	S5	CP HV RC

<i>Mitchella repens</i> L. Partridge-berry	S5	CP
<b>Honeysuckle family</b>		<b>Caprifoliaceae</b>
<i>Diervilla lonicera</i> Miller Bush honeysuckle	S5	CP HV RC
<i>Linnaea borealis</i> L. ssp. <i>longiflora</i> (Torr.) Hultén H Twinflower One specimen, possibly mislabelled.	S5	
<i>Lonicera dioica</i> L. Glaucous honeysuckle	S5	CP HV RC
<i>Lonicera maackii</i> (Rupr.) Maxim. +N Amur honeysuckle	SE2	CP HV
<i>Lonicera morrowii</i> A. Gray + Morrow's honeysuckle	SE3	CP
<i>Lonicera tatarica</i> L. + Tartarian honeysuckle	SE5	CP HV RC
<i>Lonicera X bella</i> Zabel + Bell's honeysuckle	SE2	CP RC
<i>Lonicera xylosteum</i> L. + Fly honeysuckle	SE2	CP BT
<i>Sambucus canadensis</i> L. Common elderberry	S5	CP HV RC BT
<i>Sambucus racemosa</i> L. ssp. <i>pubens</i> (Michx.) House Red-berried elderberry [ <i>S. pubens</i> Michx.]	S5	CP HV RC
<i>Symphoricarpos albus</i> (L.) S.F. Blake Snowberry	S5	CP HV RC R

<i>Triosteum aurantiacum</i> E.P. Bicknell Wild coffee	S5	CP RC
<i>Viburnum acerifolium</i> L. Maple-leaved viburnum	S5	CP HV RC
<i>Viburnum lantana</i> L. +N Wayfaring-tree	SE2	CP
<i>Viburnum lentago</i> L. Nannyberry	S5	CP HV
<i>Viburnum opulus</i> L. + Guelder rose [ <i>V. opulus</i> L. var. <i>opulus</i> ]	SE4	CP HV
<i>Viburnum rafinesquianum</i> Schult. Downy arrow-wood	S5	CP HV RC
<i>Viburnum recognitum</i> Fern Southern arrow-wood [ <i>V. dentatum</i> L. var. <i>lucidum</i> Ait.]	S4	CP
<i>Viburnum trilobum</i> Marshall * High bush cranberry [ <i>V. opulus</i> L. var. <i>americanum</i> ]	S5	CP HV
<b>Valerian family</b>		<b>Valerianaceae</b>
<i>Valeriana officinalis</i> L. + Common valerian	SE3	CP
<b>Teasel family</b>		<b>Dipsacaceae</b>
<i>Dipsacus fullonum</i> L. ssp. <i>sylvestris</i> (Hudson) Clapham + Wild teasel [ <i>D. sylvestris</i> Huds.]	SE5	CP HV RC BT R
<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>Achillea millefolium</i> L. ssp. <i>millefolium</i> + Common yarrow	SE?	CP BT R
<i>Ambrosia artemisiifolia</i> L. Common ragweed	S5	CP HV RC BT R
<i>Ambrosia trifida</i> L. Giant ragweed	S5	CP HV R
<i>Ambrosia X helenae</i> Rouleau N Hybrid ragweed	S1	CP
<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>Antennaria howellii</i> Greene ssp. <i>neodioica</i> (Greene) R.J. Bayer Smaller pussytoes [ <i>Antennaria neglecta</i> Green var. <i>attenuata</i> (Fern.) Cronq.]	SU	CP HV R
<i>Antennaria neglecta</i> Greene Field pussytoes	S5	CP HV RC R
<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
<i>Anthemis arvensis</i> L. + Corn chamomile	SE5	CP HV RC
<i>Anthemis cotula</i> L. + Stinking mayweed	SE5	CP HV RC
<i>Anthemis tinctoria</i> L. + Yellow chamomile	SE1	R
<i>Arctium lappa</i> L. + Great burdock	SE5	CP HV



<i>Arctium minus</i> (Hill) Bernh. ssp. <i>minus</i> + Common burdock	SE5	CP HV RC BT R
<i>Artemisia absinthium</i> L. + Common wormwood	SE3?	CP
<i>Artemisia biennis</i> Willd. + Biennial wormwood [Including all specimens previously misidentified as <i>Tagetes minuta</i> L.]	SE5	CP RC R
<i>Artemisia ludoviciana</i> Nutt. + Western sage	S4?	R
<i>Artemisia vulgaris</i> L. +N Mugwort	SE5	W
<i>Aster ciliolatus</i> Lindl. H Ciliolate aster	S5	CP
<i>Aster cordifolius</i> L. Heart-leaved aster	S5	CP HV RC BT
<i>Aster divaricatus</i> L. XH White wood aster Recent searches have failed to locate this species.	S1	CP
<i>Aster ericoides</i> L. ssp. <i>ericoides</i> Heath aster	S5	CP HV RC BT R
<i>Aster laevis</i> L. var. <i>laevis</i> Smooth aster	S5	CP HV RC BT
<i>Aster lanceolatus</i> Willd. ssp. <i>lanceolatus</i> Tall white aster [ <i>A. simplex</i> Willd.] No specimens.	S5	CP BT
<i>Aster lateriflorus</i> (L.) Britton var. <i>lateriflorus</i> Calico aster	S5	CP HV RC R
<i>Aster macrophyllus</i> L. Large-leaved aster	S5	CP HV RC

<i>Aster novae-angliae</i> L. New England aster	S5	CP HV RC BT R
<i>Aster oolentangiensis</i> Riddell Sky blue aster [ <i>A. azureus</i> L. var. <i>azureus</i> ]	S4	CP HV R
<i>Aster pilosus</i> Willd. var. <i>pilosus</i> Hairy aster	S5	CP BT
<i>Aster puniceus</i> L. var. <i>puniceus</i> Purple-stemmed aster No specimens.	S5	CP HV
<i>Aster schreberi</i> Nees * Schreber's aster No specimens.	S2	CP HV
<i>Aster umbellatus</i> Miller var. <i>umbellatus</i> Flat-top white aster No specimens.	S5	CP HV
<i>Aster urophyllus</i> Lindl. Arrow-leaved aster [ <i>A. sagittifolius</i> Wedem. ex. Willd. var. <i>sagittifolius</i> ]	S4	CP
<i>Aster X amethystinus</i> Nutt. Amethyst aster	S3?	CP BT
<i>Bidens cernua</i> L. Nodding beggar-ticks	S5	CP HV R
<i>Bidens frondosa</i> L. Devil's beggar-ticks	S5	CP
<i>Bidens tripartita</i> L. Purplestem beggar-ticks [ <i>B. connata</i> Muhl. var. <i>petiolata</i> (Nutt.) Farw.]	S5	CP
<i>Bidens vulgata</i> Greene Tall beggar-ticks	S5	CP

<i>Centaurea cyanus</i> L. + Cornflower	SE1	R
<i>Centaurea jacea</i> L. +N Brown knapweed	SE5	BT
<i>Centaurea nigrescens</i> Willd. ssp. <i>nigrescens</i> + Blackish knapweed [ <i>C. vochinensis</i> Bernh.]	SE4	CP
<i>Chrysanthemum leucanthemum</i> L. + Ox-eye daisy	SE5	CP HV RC BT R
<i>Cichorium intybus</i> L. + Chicory	SE5	CP RC BT R
<i>Cirsium arvense</i> (L.) Scop. + Canada thistle	SE5	CP RC BT R
<i>Cirsium vulgare</i> (Savi) Ten. + Bull thistle	SE5	CP BT R
<i>Conyza canadensis</i> (L.) Cronquist Horseweed	S5	BT R W
<i>Crepis tectorum</i> L. + Narrow-leaved hawk's beard	SE5	W
<i>Erechtites hieracifolia</i> (L.) Raf. ex DC. Pilewort	S5	CP HV
<i>Erigeron annuus</i> (L.) Pers. Daisy fleabane	S5	CP HV RC BT R
<i>Erigeron philadelphicus</i> L. ssp. <i>philadelphicus</i> Philadelphia fleabane	S5	CP RC R
<i>Erigeron pulchellus</i> Michx. Robin's fleabane	S5	CP RC R

<i>Erigeron strigosus</i> Muhlenb. ex Willd. Daisy fleabane	S5	CP RC BT R
<i>Eupatorium altissimum</i> L. +N Tall snakeroot Adventive along the railway corridor, first collected in 1983.	S1	CP
<i>Eupatorium maculatum</i> L. ssp. <i>maculatum</i> Spotted Joe-pye-weed	S5	CP
<i>Eupatorium perfoliatum</i> L. Boneset	S5	CP
<i>Eupatorium purpureum</i> L. var. <i>purpureum</i> H Sweet Joe-pye-weed	S3	RC
<i>Eupatorium rugosum</i> Houtt. White snakeroot	S5	CP HV RC
<i>Euthamia graminifolia</i> (L.) Nutt. Grass-leaved goldenrod	S5	CP BT R
<i>Gaillardia aristata</i> Pursh + Blanket-flower [All specimens of <i>G. pulchella</i> Foug. have been revised to <i>G. aristata</i> .]	SE1	R
<i>Galinsoga parviflora</i> Cav. +N Small-flowered Galinsoga First collected in 1998.	SE?	CP
<i>Galinsoga quadriradiata</i> Rúiz, Lopez & Pavón + Hairy Galinsoga [ <i>G. ciliata</i> Blake]	SE5	CP R W
<i>Gnaphalium obtusifolium</i> L. Fragrant cudweed [Including all specimens previously identified as <i>G. macounii</i> Greene]	S5	CP
<i>Gnaphalium uliginosum</i> L. + Low cudweed	SE5	CP

<i>Helianthus decapetalus</i> L. Thin-leaved sunflower	S5	CP
<i>Helianthus divaricatus</i> L. Woodland sunflower	S5	CP RC
<i>Helianthus hirsutus</i> Raf. +H Stiff-haired sunflower A single specimen with ambiguous location data.	SE1	
<i>Helianthus strumosus</i> L. Pale-leaved Wood sunflower	S5	CP HV R
<i>Helianthus tuberosus</i> L. + Jerusalem artichoke [Includes all specimens previously identified as <i>H. petiolaris</i> Nutt.]	SE5	R
<i>Heliopsis helianthoides</i> (L.) Sweet H Sweet ox-eye	S5	CP
<i>Hieracium aurantiacum</i> L. + Orange hawkweed	SE5	CP HV RC BT R
<i>Hieracium caespitosum</i> Dumort. ssp. <i>caespitosum</i> + Yellow hawkweed [ <i>H. pratense</i> Tausch.]	SE5	CP HV RC R W
<i>Hieracium canadense</i> Michx. Canada hawkweed	SU	CP
<i>Hieracium murorum</i> L. + Golden lungwort	SE1	R
<i>Hieracium paniculatum</i> L. Panicked hawkweed	S2	CP
<i>Hieracium piloselloides</i> Vill. + Glaucous king devil [ <i>H. florentinum</i> All.]	SE5	CP R

<i>Hieracium X floribundum</i> Wimm. & Grab. + King devil hawkweed	SE?	HV R
<i>Inula helenium</i> L. + Elecampane	SE5	CP HV BT
<i>Lactuca biennis</i> (Moench) Fern. Tall blue lettuce	S5	CP
<i>Lactuca canadensis</i> L. Canada wild lettuce	S5	CP R
<i>Lactuca serriola</i> L. + Prickly lettuce [ <i>L. scariola</i> L.]	SE5	CP HV RC R
<i>Lapsana communis</i> L. + Nipplewort	SE5	CP HV
<i>Leontodon autumnalis</i> L. ssp. <i>autumnalis</i> +H Fall dandelion	SE5	W
<i>Matricaria matricarioides</i> (Less.) Porter + Pineapple-weed	SE5	HV RC W
<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>Matricaria recutita</i> L. + Sweet-false chamomile [ <i>M. chamomilla</i> L. var. <i>chamomilla</i> ]	SE?	R W
<i>Megalodonta beckii</i> (Torr. ex Spreng) Greene X Water-marigold	S5	CP HV
<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>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>Picris hieracioides</i> L. ssp. <i>hieracioides</i> + Hawkweed oxtongue No specimens	SE5	CP
<i>Polymnia canadensis</i> L. Small-flowered leaf-cup	S4	RC
<i>Prenanthes alba</i> L. White rattlesnake-root	S5	CP HV RC
<i>Prenanthes altissima</i> L. Tall white lettuce	S5	CP HV
<i>Rudbeckia hirta</i> L. Brown-eyed Susan	S5	CP HV R
<i>Rudbeckia laciniata</i> L. Tall coneflower	S5	CP HV BT
<i>Rudbeckia triloba</i> L. + Brown-eyed coneflower	SE4	R
<i>Senecio jacobaea</i> L. + Tansy groundsel	SE1	R
<i>Senecio sylvaticus</i> L. Woodland groundsel	S1?	HV R
<i>Senecio vulgaris</i> L. + Common groundsel	SE5	R W

<i>Silphium perfoliatum</i> L. var. <i>perfoliatum</i> +N Cup-plant Spreading from a planting in the Woodland Garden.	S2	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>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>Solidago bicolor</i> L. Silverrod	S4?	CP HV
<i>Solidago caesia</i> L. Blue-stem goldenrod	S5	CP HV RC
<i>Solidago canadensis</i> L. Canada goldenrod [Including both var. <i>canadensis</i> and var. <i>hargerii</i> .]	S5	CP RC BT R
<i>Solidago flexicaulis</i> L. Zig-zag goldenrod	S5	CP HV RC
<i>Solidago gigantea</i> Aiton Giant goldenrod	S5	CP HV 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>Solidago juncea</i> Aiton Early goldenrod	S5	CP HV RC R
<i>Solidago nemoralis</i> Aiton ssp. <i>nemoralis</i> Gray goldenrod	S5	CP HV RC R
<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>Solidago rugosa</i> Aiton ssp. <i>rugosa</i> H Rough goldenrod	S5	CP
<i>Solidago squarrosa</i> Muhlenb. ex Nutt. X Rugged goldenrod	S5	CP HV
<i>Sonchus arvensis</i> L. ssp. <i>arvensis</i> + Field sow-thistle	SE5	CP HV RC R
<i>Sonchus arvensis</i> L. ssp. <i>uliginosus</i> (M. Bieb.) Nyman + Perennial sow-thistle	SE5	HV
<i>Sonchus asper</i> (L.) Hill ssp. <i>asper</i> + Spiny sow-thistle	SE5	CP R
<i>Sonchus oleraceus</i> L. + Common sow-thistle	SE5	CP HV
<i>Tanacetum vulgare</i> L. + Common tansy	SE5	CP R
<i>Tanacetum parthenium</i> (L.) Schultz-Bip. +N Fever-few	SE3	HV
<i>Taraxacum erythrospermum</i> Andrz. ex Besser + Red-seeded dandelion	SE5	R
<i>Taraxacum officinale</i> G. Weber + Common dandelion	SE5	CP RC R W
<i>Tragopogon dubius</i> Scop. + Large goat's-beard [ <i>T. major</i> Jacq.]	SE5	R
<i>Tragopogon porrifolius</i> L. + Common salsify	SE4?	R

<i>Tragopogon pratensis</i> L. ssp. <i>pratensis</i> + Meadow goat's-beard	SE5	CP RC R
<i>Tussilago farfara</i> L. + Coltsfoot	SE5	CP HV
<i>Xanthium strumarium</i> L. Cocklebur	S5	CP
<b>Water-plantain family</b>		<b>Alismataceae</b>
<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>Sagittaria cuneata</i> E. Sheld. H Northern arrowhead Some specimens predate Lamoreaux's 1950–1955 planting program, indicating this species was part of the native flora.	S4?	CP HV
<i>Sagittaria latifolia</i> Willd. Broad-leaved arrowhead	S5	CP HV
<b>Frog's-bit family</b>		<b>Hydrocharitaceae</b>
<i>Elodea canadensis</i> Rich. ex Michx. Canada waterweed	S5	CP HV
<i>Vallisneria americana</i> Michx. Water-celery	S5	CP HV
<b>Pondweed family</b>		<b>Potamogetonaceae</b>
<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 najas	S5	CP
<i>Najas minor</i> All.		
+N Smaller najas	SE2	CP
First discovered in 1999.		

<b>Horned Pondweed family</b>		<b>Zannichelliaceae</b>
<hr/>		
<i>Zannichellia palustris</i> L.		
Horned pondweed	S4	CP HV
<b>Flowering rush family</b>		<b>Butomaceae</b>
<hr/>		
<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>
<hr/>		
<i>Acorus americanus</i> (Raf.) Raf.		
Sweetflag	S4	CP HV
[ <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]		
<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	CP
A single plant growing beside a boardwalk on the north shore of Cootes Paradise. It may persist from Lamoureaux's (1963) plantings.		
<i>Symplocarpus foetidus</i> (L.) Salisb. ex Nutt.		
Skunk-cabbage	S5	CP HV
<b>Duckweed family</b>		<b>Lemnaceae</b>
<hr/>		
<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>Wolffia columbiana</i> Karst. Water-meal	S4S5	CP HV
<b>Spiderwort family</b>	<b>Commelinaceae</b>	
<i>Commelina communis</i> L. +* Asiatic day-flower	SE3	R
<i>Tradescantia virginiana</i> L. +* Virginia spiderwort	SE1	CP R
<b>Rush family</b>	<b>Juncaceae</b>	
<i>Juncus articulatus</i> L. Jointed rush	S5	CP HV
<i>Juncus bufonius</i> L. Toad rush	S5	CP HV R
<i>Juncus canadensis</i> J. Gay ex Laharpe Canada rush	S5	CP
<i>Juncus compressus</i> Jacq. + Compressed rush	SE5	CP
<i>Juncus dudleyi</i> Wiegelb Dudley's rush	S5	CP HV RC BT R
<i>Juncus effusus</i> L. ssp. <i>solutus</i> (Fern. & Wiegand) Hämet-Ahti Soft rush	S5	CP
<i>Juncus gerardii</i> Loisel. +N Blackgrass rush First collected from a ditch below highway 403 in 1999.	SE3	R
<i>Juncus nodosus</i> L. Knotted rush	S5	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>Juncus tenuis</i> Willd. Path rush	S5	CP HV BT R
<i>Juncus torreyi</i> Coville Torrey's rush	S5	CP HV BT R
<i>Luzula acuminata</i> Raf. Hairy woodrush	S5	CP HV
<i>Luzula multiflora</i> (Retz.) Lej. ssp. <i>multiflora</i> Woodrush	S5	CP HV RC
<b>Sedge family</b>	<b>Cyperaceae</b>	
<i>Bulboschoenus fluviatilis</i> (Torr.) Sojak N River bulrush [ <i>Scirpus fluviatilis</i> (Torr.) A. Gray]	S4S5	CP HV
<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>Carex albursina</i> E. Sheld. White bear sedge	S5	CP HV
<i>Carex alopecoidea</i> Tuckerm. Foxtail sedge	S5	CP HV
<i>Carex aquatilis</i> Wahlenb. * Aquatic sedge	S5	CP
<i>Carex arctata</i> Boott Drooping wood sedge	S5	CP

<i>Carex atherodes</i> Spreng.		
* Awned sedge	S4S5	CP HV
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.		
Golden-fruited sedge	S5	CP BT R
<i>Carex bebbii</i> (L.H. Bailey) Olney ex Fern.		
Bebb's sedge	S5	CP HV
<i>Carex blanda</i> Dewey		
Woodland sedge	S5	CP RC
<i>Carex cephaloidea</i> (Dewey) Dewey		
Thin-leaved sedge	S5	CP HV
<i>Carex cephalophora</i> Muhlenb. ex Willd.		
Oval-headed sedge	S5	CP HV RC
[Includes plants previously misidentified as <i>C. mesochorea</i> Mack. and <i>C. aggregata</i> Mack.]		
<i>Carex communis</i> L.H. Bailey		
Fibrous rooted sedge	S5	CP
<i>Carex comosa</i> Boott		
Bristly sedge	S5	CP HV
<i>Carex crinita</i> Lam.		
Fringed sedge	S5	CP
<i>Carex cristatella</i> Britton		
Crested sedge	S5	CP HV RC
<i>Carex deweyana</i> Schwein.		
Dewey's sedge	S5	CP HV
<i>Carex diandra</i> Schrank		
* Lesser paniced sedge	S5	CP

<i>Carex digitalis</i> Willd.		
Slender wood sedge	S4S5	CP HV BT
<i>Carex gracillima</i> Schwein.		
Graceful sedge	S5	CP HV
<i>Carex granularis</i> Muhlenb. ex Willd.		
Meadow sedge	S5	CP BT
<i>Carex grisea</i> Wahl.		
Narrow-leaved sedge	S4	CP HV
[Including all specimens previously referred to <i>C. amphibola</i> Steud.]		
<i>Carex hitchcockiana</i> Dewey		
N Hitchcock's sedge	S5	RC
First discovered in 1999.		
<i>Carex hystericina</i> Muhlenb. ex Willd.		
Porcupine sedge	S5	CP HV
<i>Carex interior</i> L.H. Bailey		
Inland sedge	S5	CP
<i>Carex jamesii</i> Schwein.		
N James' sedge	S3	CP RC
<i>Carex lacustris</i> Willd.		
Lake-bank sedge	S5	CP HV
<i>Carex laxiculmis</i> Schwein.		
Spreading sedge	S4	CP
<i>Carex laxiflora</i> Lam.		
Loose-flowered 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
[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 normalis</i> Mack. Larger straw sedge	S4	CP HV
<i>Carex oligocarpa</i> Schkuhr ex Willd. N Few-fruited sedge First discovered in 1998.	S2	RC BT
<i>Carex pedunculata</i> Muhlenb. ex Willd. Long-stalked sedge	S5	CP HV
<i>Carex pellita</i> Willd. Woolly sedge	S5	CP HV
<i>Carex pensylvanica</i> Lam. Pennsylvania sedge	S5	CP HV RC BT
[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 pensylvanica</i> X <i>Carex umbellata</i> N Hybrid carex		CP
A single 2001 collection identified by Dr. Reznicek.		
<i>Carex plantaginea</i> Lam. Plantain-leaved sedge	S5	CP HV
<i>Carex platyphylla</i> J. Carey Broad-leaved sedge	S5	CP HV
<i>Carex prasina</i> Wahlenb. Drooping sedge	S4	CP
<i>Carex projecta</i> Mack. Necklace sedge	S5	HV

<i>Carex pseudo-cyperus</i> L. Cypress-like sedge	S5	CP HV
<i>Carex radiata</i> (Wahlenb.) Small Radiate sedge	S5	CP
<i>Carex retrorsa</i> Schwein. Retrorse sedge	S5	CP HV
<i>Carex rosea</i> Schkuhr ex Willd. Stellate sedge	S5	CP HV RC
[Includes <i>C. convoluta</i> Mack.]		
<i>Carex scabrata</i> Schwein. * Rough sedge	S5	CP
<i>Carex scoparia</i> Schkuhr ex Willd. Pointed broom sedge	S5	CP
<i>Carex sparganioides</i> Muhlenb. ex Willd. Burreed sedge	S5	CP HV
<i>Carex spicata</i> Hudson + Spiked sedge	SE5	CP RC
<i>Carex stipata</i> Muhlenb. ex Willd. Awl-fruited sedge	S5	CP HV
[Including plants previously misidentified as <i>C. laevivaginata</i> (Kuekenh.) Mack.]		
<i>Carex stricta</i> Lam. Tussock sedge	S5	CP HV
[Including plants previously misidentified as <i>C. lenticularis</i> Michx. var. <i>lenticularis</i> .]		
<i>Carex tenera</i> Dewey Straw sedge	S5	CP HV R
[Including plants previously misidentified as <i>C. festucea</i> Schkuhr.]		

<i>Carex tribuloides</i> Wahlenb. Blunt broom sedge	S4S5	HV
<i>Carex umbellata</i> Schkuhr ex Willd. N Umbel-like sedge First discovered in 1993 by Steve Varga.	S5	CP HV
<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>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>Cyperus bipartitus</i> Torr. Umbrella sedge	S5	R
<i>Cyperus diandrus</i> Torr. N Small cyperus	S4	CP
<i>Cyperus erythrorhizos</i> Muhlenb. N Red-rooted umbrella sedge	S3	CP
<i>Cyperus esculentus</i> L. Yellow nut-grass	S5	CP
<i>Cyperus lupulinus</i> (Spreng.) Marcks ssp. <i>lupulinus</i> Slender cyperus [ <i>C. filiculmis</i> Vahl.]	SH	R
<i>Cyperus odoratus</i> L. Fragrant umbrella sedge [ <i>C. engelmannii</i> Steud.]	S5	CP HV
<i>Cyperus strigosus</i> L. Straw-colored umbrella sedge	S5	CP HV

<i>Eleocharis acicularis</i> (L.) Roem. & Schult. Needle spike-rush	S5	CP
<i>Eleocharis erythropoda</i> Steud. Red-footed spike-rush	S5	CP HV RC BT
<i>Eleocharis intermedia</i> Schult. Matted spike-rush	S4	CP HV
<i>Eleocharis obtusa</i> (Willd.) Schult. Blunt spike-rush	S5	CP HV
<i>Eleocharis smallii</i> Britton Water spike-rush [ <i>E. palustris</i> (L.)R.&S.]	S5	CP HV RC
<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>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>Schoenoplectus tabernaemontani</i> (C.C. Gmelin) Palla Soft-stemmed bulrush [ <i>Scirpus validus</i> L.]	S5	CP HV BT
<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>Scirpus cyperinus</i> (L.) Kunth Wool-grass	S5	CP RC

<i>Scirpus microcarpus</i> C. Presl Red-sheathed bulrush	S5	CP
<i>Scirpus pendulus</i> Muhlenb. ex Willd. Lined bulrush	S5	BT
<i>Trichophorum clintonii</i> (A. Gray) S.G. Smith * Clinton's club-rush [ <i>Scirpus clintonii</i> A. Gray] A single specimen. Most likely extirpated but easily overlooked.	S2	CP
<i>Trichophorum planifolium</i> (Sprengel) Palla Few-flowered clubrush [ <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.	S1	CP

**Grass family**

**Poaceae**

<i>Agropyron cristatum</i> (L.) Gaertn. ssp. <i>pectinatum</i> (M. Bieb.) Tzvelev + Crested wheat grass [ <i>A. cristatiforme</i> Sarker]	SE2	R
<i>Agrostis gigantea</i> Roth + Redtop [ <i>A. stolonifera</i> L. var. <i>major</i> (Gaud.) Farw.]	SE5	CP HV BT
<i>Agrostis perennans</i> (Walter) Tuckerm. Upland bent grass [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).]	S5	CP BT
<i>Agrostis stolonifera</i> L. Creeping bent grass	S5	CP HV
<i>Alopecurus aequalis</i> Sobol. Water foxtail	S4S5	CP HV

<i>Alopecurus pratensis</i> L. + Meadow foxtail	SE5	HV
<i>Andropogon gerardii</i> Vitman Big bluestem	S4	CP RC R
<i>Arrhenatherum elatius</i> (L.) P. Beauv. ex Presl + Tall oat grass	SE4	HV R
<i>Avena sativa</i> L. + Cultivated oats	SE3	CP
<i>Brachyelytrum erectum</i> (Schreb.) P. Beauv. Bearded short-husk	S4S5	CP HV
<i>Bromus arvensis</i> L. + Field brome	SE1	R
<i>Bromus ciliatus</i> L. Fringed brome [Listed as <i>B. canadensis</i> Michx. in Pringle (1969)]	S5	CP
<i>Bromus commutatus</i> Schrad. + Upright chess [Including plants listed as <i>B. racemosus</i> L. in Pringle (1969)]	SE4	CP RC R
<i>Bromus hordeaceus</i> L. ssp. <i>hordeaceus</i> + Soft brome [ <i>Bromus mollis</i> L.]	SE2?	CP R
<i>Bromus inermis</i> Leyss. ssp. <i>inermis</i> + Smooth brome	SE5	CP R
<i>Bromus japonicus</i> Thunb. ex Murray + Japanese chess	SE4	W
<i>Bromus kalmii</i> A. Gray Kalm's brome [ <i>B. purgans</i> L.]	S4	CP HV

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

<i>Festuca arundinacea</i> Schreb. + Tall fescue	SE5	CP BT
<i>Festuca pratensis</i> Hudson + Meadow fescue	SE5	CP HV RC
<i>Festuca rubra</i> L. ssp. <i>rubra</i> Red fescue	S5	CP HV R
<i>Festuca subverticillata</i> (Pers.) Alexeev Nodding fescue [ <i>F. obtusa</i> Biehler.]	S4	CP 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>Glyceria borealis</i> (Nash) Batch. Northern manna grass	S5	CP HV
<i>Glyceria canadensis</i> (Michx.) Trin. Rattlesnake grass	S4S5	CP
<i>Glyceria grandis</i> S. Watson Tall manna grass	S4S5	CP HV
<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
<i>Glyceria septentrionalis</i> Hitchc. Floating manna grass	S4	HV
<i>Glyceria striata</i> (Lam.) A. Hitchc. Fowl meadow grass	S5	CP
<i>Hordeum jubatum</i> L. ssp. <i>jubatum</i> + Foxtail barley	SE5	R

<i>Hordeum vulgare</i> L. + Common barley	SE2	W
<i>Leersia oryzoides</i> (L.) Sw. Rice cut grass	S5	CP
<i>Leersia virginica</i> Willd. White cut grass	S4	CP HV
<i>Lolium perenne</i> L. + English rye grass [Including <i>L. multiflorum</i> Lam. var. <i>multiflorum</i> ]	SE4	HV
<i>Milium effusum</i> L. Wood millet	S4S5	CP HV
<i>Muhlenbergia frondosa</i> (Poir. in Lam.) Fern. Leafy satin grass	S4	CP
<i>Muhlenbergia mexicana</i> (L.) Trin. var. <i>filiformis</i> (Willd.) Scribn. Mexican satin grass	S4	CP HV
<i>Muhlenbergia schreberi</i> J. Gmel. Screber's satin grass	S4	CP
<i>Oryzopsis asperifolia</i> Michx. Mountain-rice	S5	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>Panicum acuminatum</i> Sw. var. <i>acuminatum</i> Acuminate panic 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>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>Panicum dichotomiflorum</i> Michx. +N Fall panicum	SE5	RC
<i>Panicum dichotomum</i> (L.) Gould Spreading panic grass	S2	CP
<i>Panicum latifolium</i> L. Broad-leaved panic grass [ <i>P. macrocarpon</i> Le Conte ex Torr.]	S4	CP HV
<i>Panicum linearifolium</i> Nash Narrow-leaved panic [Includes specimens previously identified as <i>P. depauperatum</i> Muhl. var. <i>involutum</i> (Torr.) Wood]	S4S5	CP
<i>Panicum miliaceum</i> L. Broom-corn millet	SE4	CP HV
<i>Phalaris arundinacea</i> L. + Reed canary grass Aggressive clones of this species growing in southern Ontario are believed to be of European origin (Dore and MacNeill 1980)	S5	CP
<i>Phleum pratense</i> L. + Timothy	SE5	CP HV RC BT R
<i>Phragmites australis</i> (Cav.) Trin. ex Steud. Common reed 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).	S5	CP
<i>Poa alsodes</i> A. Gray Grove meadow grass	S4	CP HV
<i>Poa annua</i> L. + Annual blue grass	SE5	W

<i>Poa bulbosa</i> L. +N Bulbous spear grass	SE3	W
<i>Poa compressa</i> L. +? Canada blue grass	SE5?	CP RC R W
<i>Poa interior</i> Rydb. Inland blue grass	S3?	CP
<i>Poa languida</i> Hitchc. Languid spear grass	S3	CP
<i>Poa nemoralis</i> L. + Woodland spear grass	SE3	CP
<i>Poa palustris</i> L. Fowl meadow grass	S5	CP HV
<i>Poa pratensis</i> L. ssp. <i>pratensis</i> Kentucky blue grass	S4S5	CP HV
<i>Poa saltuensis</i> Fern. & Wiegand Two-rayed poa	S4	CP
<i>Poa trivialis</i> L. + Rough blue grass	SE3	CP HV
<i>Puccinellia distans</i> (Jacq.) Parl. +N Reflexed saltmarsh grass	SE5	HV
<i>Schizachyrium scoparium</i> (Michx.) Nees Little bluestem [ <i>Andropogon scoparium</i> Michx. var. <i>neomexicanus</i> Hitchc.]	S4	CP HV R
<i>Secale cereale</i> L. + Cereal rye	SE3	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>Setaria viridis</i> (L.) P. Beauv. +H Green foxtail	SE5	W
<i>Sorghastrum nutans</i> (L.) Nash Indian grass [ <i>S. avenaceum</i> (Michx.) Nash ex Britt.]	S4	CP HV R
<i>Sorghum bicolor</i> (L.) Moench ssp. <i>bicolor</i> +N Sorghum	SE1	W
<i>Spartina pectinata</i> Link H Tall cord grass A single known location persists along the railway corridor.	S4	CP
<i>Sphenopholis intermedia</i> (Rydb.) Rydb. Slender wedge grass	S4S5	CP R
<i>Sphenopholis nitida</i> (Biehler) Scribn. Slender Eaton's grass	S1	CP HV
<i>Sporobolus cryptandrus</i> (Torr.) A. Gray Sand dropseed	S4	R
<i>Sporobolus neglectus</i> Nash Overlooked dropseed	S4	R
<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

<i>Zizania palustris</i> L. Northern wild-rice	S4	CP HV
[ <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> .		

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**Bur-reed family** **Sparganiaceae**

<i>Sparganium emersum</i> Rehmann ssp. <i>emersum</i> X Green-fruited bur-reed	S5	CP
[Likely includes both ssp. <i>emersum</i> and ssp. <i>acaulis</i> . Includes specimens misidentified as <i>S. angustifolium</i> .]		

<i>Sparganium eurycarpum</i> Engelm. ex A. Gray Large bur-reed	S5	CP HV
[Includes all specimens previously misidentified as <i>S. americanum</i> .]		

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**Cat-tail family** **Typhaceae**

<i>Typha angustifolia</i> L. + Narrow-leaved cattail	SE5	CP HV
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<i>Typha latifolia</i> L. Broad-leaved cattail	S5	CP HV
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<i>Typha X glauca</i> Godron + Hybrid cattail	SE5	CP HV
See Kuehn 1998.		

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**Water-hyacinth family** **Pontederiaceae**

<i>Heteranthera dubia</i> (Jacq.) MacMill. H Water star-grass	S5	CP
Rediscovered in 1999.		

<i>Pontederia cordata</i> L. +PH Pickerel weed	S5	CP HV
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.		

Lily family	Liliaceae	
<i>Allium canadense</i> L. var. <i>canadense</i> * Wild onion	S5	CP
<i>Asparagus officinalis</i> L. + Asparagus	SE5	CP HV RC BT
<i>Clintonia borealis</i> (Aiton) Raf. * Bluebead-lily	S5	CP
<i>Convallaria majalis</i> L. +H Lily-of-the-valley Persisting at a few locations.	SE5	CP HV RC
<i>Disporum lanuginosum</i> (Michx.) Nicholson * Yellow mandarin	S4	CP HV
<i>Erythronium americanum</i> Ker Gawl. ssp. <i>americanum</i> Trout lily	S5	CP HV
<i>Hemerocallis fulva</i> (L.) L. + Orange day-lily	SE5	CP RC BT R
<i>Hypoxis hirsuta</i> (L.) Covas XH Yellow star-grass	S3	CP
<i>Lilium michiganense</i> Farw. Michigan lily [ <i>L. canadense</i> L. var. <i>michiganense</i> (Farw.) Boivin & Cody]	S5	CP HV BT
<i>Lilium philadelphicum</i> L. Wood lily	S5	CP RC
<i>Maianthemum canadense</i> Desf. Wild lily-of-the-valley	S5	CP HV RC
<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>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>Medeola virginiana</i> L. Indian cucumber-root	S5	CP HV
<i>Ornithogalum umbellatum</i> L. + Summer snowflake	SE3	CP RC
<i>Polygonatum biflorum</i> (Walter) Eil. * Solomon's seal	S4	CP
<i>Polygonatum pubescens</i> (Willd.) Pursh Hairy Solomon's seal	S5	CP HV RC
<i>Streptopus roseus</i> Michx. * Rose twisted-stalk	S5	CP HV
<i>Trillium erectum</i> L. * Red trillium	S5	CP RC
<i>Trillium grandiflorum</i> (Michx.) Salisb. White trillium	S5	CP HV RC BT
<i>Uvularia grandiflora</i> Sm. Large-flowered bellwort	S5	CP HV RC
Iris family	Iridaceae	
<i>Iris pseudacorus</i> L. + Yellow-flag	SE3	CP HV
<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. Carrion flower	S4	CP HV RC
<i>Smilax 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>Corallorhiza maculata</i> (Raf.) Raf. * Spotted coral-root No specimens.	S5	CP RC
<i>Corallorhiza odontorhiza</i> (Willd.) Nutt. * Autumn coral-root No specimens.	S2	CP
<i>Cypripedium calceolus</i> L. var. <i>parviflorum</i> (Salisb.) Hultén Small yellow lady's slipper Only two small populations are known to persist.	S5	CP HV
<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

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