



The University of Dayton

Nov. 13, 1989

John Klein
Land Manager
Hamilton County Park District
10245 Winton Road
Cincinnati, OH 45231

Dear John:

Enclosed is the Final Report on the Vascular Plant Survey in Sharon Woods due by Nov. 15. Enclosed is an Invoice requesting payment of \$848.40 (of the \$1,804.40 granted research fund).

The large scale map on which several plant locations are designated is large and awkward to mail. It is being directly delivered to the Sharon Woods Ranger Station.

Sincerely,


J.W. Ramsey
Professor

JMR/lr

FINAL REPORT ON THE SURVEY OF VASCULAR FLORA IN SHARON WOODS, HAMILTON COUNTY
PARK DISTRICT (March 27 - October 22, 1989)

The better part of thirty one days have been spent in Sharon Woods (see list of survey dates below). A checklist of 89 families and 451 species of vascular plants has been accounted for, a remarkable diversity. The accompanying check-list comprises the essential portion of this report. The list includes family and species designations, common names, earliest noted blooming dates, the relative abundance, and the general habitat type. The format of the list follows that employed by Rankin for Shawnee Lookout Park.

In addition to the check-list, several other types of data are included in the report.

I. Forest Community Data

Sharon Woods has a valuable assemblage of forest communities. The compartment division of the park shown in the accompanying map has been used as a basis for this part of the report. These compartments, A through J, were further divided into tracts by Minney, Compston, Kunkel, Mowery, and Thacker in mapping carried out in February of 1981. They listed the cover type and acreage for each tract of each compartment. Their work provides quantitative data for each cover type (water, wetland, cultivated openland, non-cultivated openland, brushland, and woodland).

This part of the report concerns only cover type 5 (woodland), and offers qualitative data; i.e. it lists predominant species in the overstory and understory of the wooded sections of each compartment. In addition, this section provides data on tree maturity in the way of listing the dbh (diameter, breast high) in centimeters for trees exceeding 60 cm.

These data on woodland species does not include information on the density of the stands. Some compartments have more extensive stands of mature trees than other compartments. For example, compartments D, E, F, G, H, and J have more extensive stands of typical woods than compartments A, B, and I.

Some of the finest stands of Red Oak and Black Walnut are to be found in Sharon Woods. The most common overstory species in the park is *Fraxinus americana* (White Ash), and the second most frequent is *Quercus rubra* (Red Oak).

Compartment A

Predominant Overstory Species

Fraxinus americana (White Ash)
Juglans nigra (Black Walnut)
Gleditsia triacanthos (Honey Locust)
Quercus rubra (Red Oak)
Quercus alba (White Oak)
Liriodendron tulipifera (Tulip tree)
Carya ovata (Shagbark Hickory)
Prunus serotina (Wild Black Cherry)
Platanus occidentalis (Sycamore)

Acer saccharum (Sugar Maple)
Populus deltoides (Cottonwood)

Predominant Understory Species

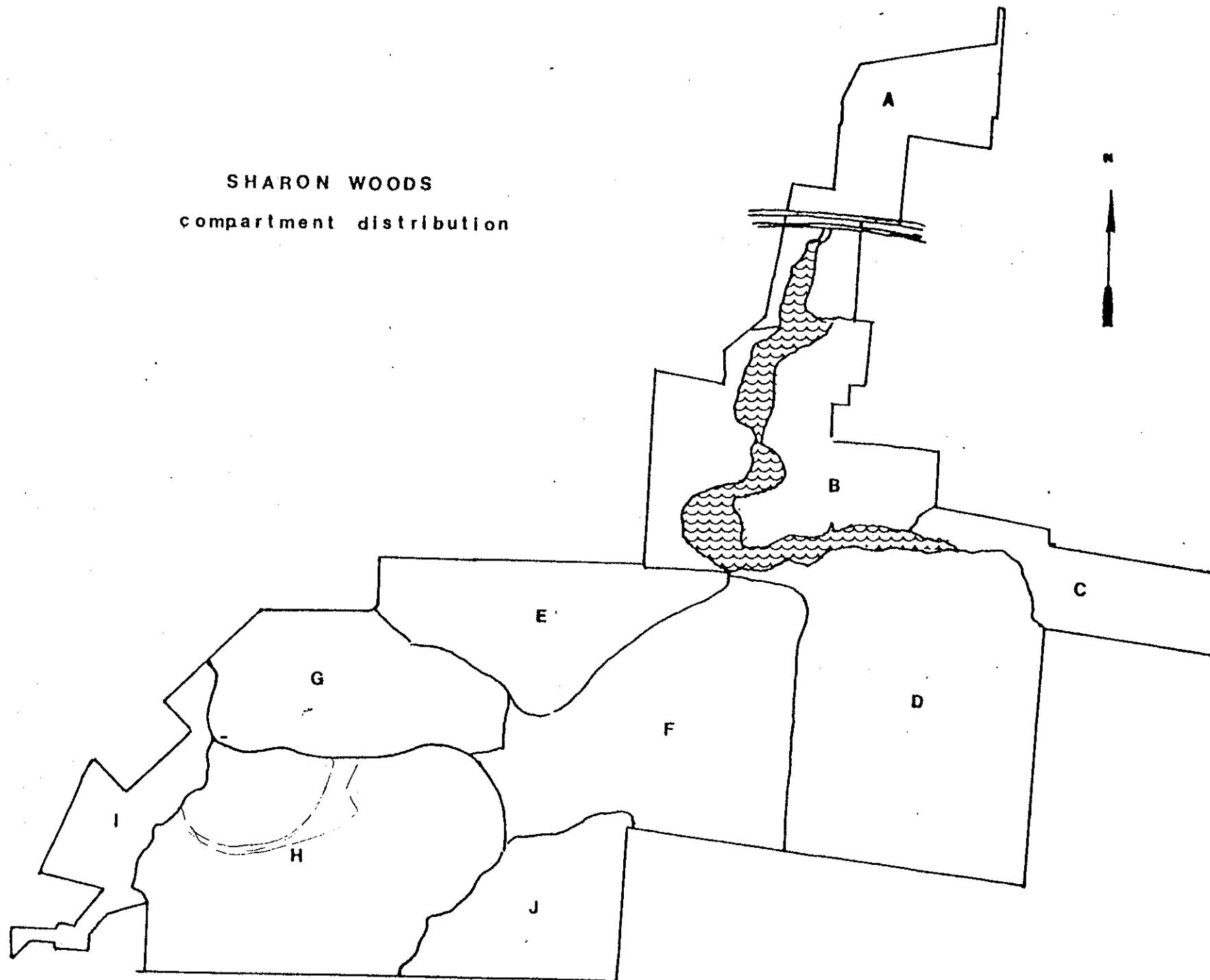
Cercis canadensis (Redbud)
Morus rubra (Red Mulberry)
Carya cordiformis (Bitternut Hickory)
Acer saccharum (Sugar Maple)
Sassafras albidum (Sassafras)
Celtis occidentalis (Hackberry)
Liriodendron tulipifera (Tulip Tree)
Asimina triloba (Pawpaw)
Cornus stolonifera (Red Osier)
Acer negundo (Box Elder)

Survey Dates

<u>Date</u>	<u>Principal Investigator in the Field</u>
March 27	Ramsey
April 6	Ramsey
April 13	Ramsey
April 20	Ramsey
April 27	Ramsey
May 2	Ramsey
May 8	Ramsey
May 11	Ramsey
May 15	Ramsey
May 22	Ramsey
June 1	Ramsey
June 8	Ramsey
June 15	Ramsey
June 22	Ramsey
June 29	Ramsey
July 7	Ramsey
July 14	Ramsey
July 21	Ramsey
July 29	Ramsey
August 4	Ramsey
August 11	Ramsey
August 17	Ramsey
August 24	Ramsey
September 2	Ramsey
September 9	Ramsey
September 17	Ramsey
September 23	Ramsey
October 1	Ramsey
October 9	Ramsey
October 15	Ramsey
October 22	Ramsey

J.M. Ramsey, Surveyor
November 1, 1989

SHARON WOODS
compartment distribution



Compartment B

Predominant Overstory Species

Robinia pseudoacacia (Black Locust)
Fraxinus americana (White Ash)
Juglans nigra (Black Walnut)
Quercus rubra (Red Oak)
Ulmus rubra (Slippery Elm)
Quercus alba (White Oak)
Quercus muehlenbergii (Yellow Oak)
Celtis occidentalis (Hackberry)
Platanus occidentalis (Sycamore)
Carya ovata (Shagbark Hickory)
Acer saccharum (Sugar Maple)

Predominant Understory Species

Acer saccharum (Sugar Maple)
Quercus muehlenbergii (Yellow Oak)
Cercis canadensis (Redbud)
Carya cordiformis (Bitternut Hickory)
Aesculus glabra (Ohio Buckeye)
Tilia neglecta (Basswood)

Compartment C

Predominant Overstory Species

Platanus occidentalis (Sycamore)
Fagus grandifolia (Beech)
Fraxinus americana (White Ash)
Quercus muehlenbergii (Yellow Oak)
Quercus rubra (Red Oak)
Carya ovata (Shagbark Hickory)
Juglans nigra (Black Walnut)
Quercus alba (White Oak)

Predominant Understory Species

Acer saccharum (Sugar Maple)
Acer negundo (Box Elder)
Ostrya virginiana (Hop-hornbeam)
Sassafras albidum (Sassafras)

Compartment D

Predominant Overstory Species

Quercus velutina (Black Oak)
Quercus muehlenbergii (Yellow Oak)
Quercus rubra (Red Oak)
Fraxinus americana (White Ash)
Quercus shumardii (Shumard Oak)
Acer saccharum (Sugar Maple)
Carya cordiformis (Bitternut Hickory)
Fagus grandifolia (Beech)
Acer nigrum (Black Maple)
Juglans nigra (Black Walnut)
Prunus serotina (Wild Black Cherry)
Quercus alba (White Oak)

Predominant Understory Species

Fraxinus quadrangulata (Blue Ash)
Cornus florida (Flowering Dogwood)
Sassafras albidum (Sassafras)
Ostrya virginiana (Hop-hornbeam)
Acer saccharum (Sugar Maple)
Celtis occidentalis (Hackberry)

Compartment E

Predominant Overstory Species

Quercus rubra (Red Oak)
Fraxinus americana (White Ash)
Acer saccharum (Sugar Maple)
Fagus grandifolia (Beech)
Quercus velutina (Black Oak)
Gleditsia triacanthos (Honey Locust)
Celtis occidentalis (Hackberry)
Liriodendron tulipifera (Tulip tree)
Tilia neglecta (Basswood)
Aesculus glabra (Ohio Buckeye)
Quercus shumardii (Shumard Oak)
Prunus serotina (Wild Black Cherry)

Predominant Understory Species

Acer saccharum (Sugar Maple)
Cornus florida (Flowering Dogwood)
Sassafras albidum (Sassafras)
Asimina triloba (Pawpaw)
Fraxinus quadrangulata (Blue Ash)
Aesculus glabra (Ohio Buckeye)
Morus rubra (Red Mulberry)

Compartment F

Predominant Overstory Species

Fraxinus americana (White Ash)
Quercus rubra (Red Oak)
Tilia neglecta (Basswood)
Fagus grandifolia (Beech)
Quercus alba (White Oak)
Juglans nigra (Black Walnut)
Carya ovata (Shagbark Hickory)
Acer nigrum (Black Maple)
Acer saccharum (Sugar Maple)
Prunus serotina (Wild Black Cherry)

Predominant Understory Species

Cercis canadensis (Redbud)
Carya cordiformis (Bitternut Hickory)
Acer saccharum (Sugar Maple)
Sassafras albidum (Sassafras)
Cornus florida (Flowering Dogwood)
Asimina triloba (Pawpaw)
Morus rubra (Red mulberry)
Fagus grandifolia (Beech)
Staphylea trifolia (Bladdernut)

Compartment G

Predominant Overstory Species

Fraxinus americana (White Ash)
Acer saccharum (Sugar Maple)
Celtis occidentalis (Hackberry)
Ulmus rubra (Slippery Elm)
Juglans nigra (Black Walnut)
Quercus rubra (Red Oak)
Quercus muehlenbergii (Yellow Oak)
Platanus occidentalis (Sycamore)
Prunus serotina (Wild Black Cherry)
Carya cordiformis (Bitternut Hickory)

Predominant Understory Species

Asimina triloba (Pawpaw)
Cercis canadensis (Redbud)
Cornus florida (Flowering Dogwood)
Fraxinus quadrangulata (Blue Ash)
Prunus serotina (Wild Black Cherry)

Compartment H

Predominant Overstory Species

Fraxinus americana (White Ash)
Quercus rubra (Red Oak)
Gleditsia triacanthos (Honey Locust)
Juglans nigra (Black Walnut)
Acer saccharum (Sugar Maple)
Carya ovata (Shagbark Hickory)
Quercus alba (White Oak)
Platanus occidentalis (Sycamore)
Prunus serotina (Wild Black Cherry)

Predominant Understory Species

Acer saccharum (Sugar Maple)
Ulmus rubra (Slippery Elm)
Asimina triloba (Pawpaw)
Cercis canadensis (Redbud)
Celtis occidentalis (Hackberry)
Aesculus glabra (Ohio Buckeye)
Carya cordiformis (Bitternut Hickory)
Cornus florida (Flowering Dogwood)

Compartment I

Predominant Overstory Species

Platanus occidentalis (Sycamore)
Juglans nigra (Black Walnut)
Populus deltoides (Cottonwood)
Celtis occidentalis (Hackberry)
Liriodendron tulipifera (Tulip tree)
Acer saccharum (Sugar Maple)
Acer saccharinum (Silver Maple)

Predominant Understory Species

Acer negundo (Box Elder)
Morus rubra (Red Mulberry)
Celtis occidentalis (Hackberry)

Compartment J

Predominant Overstory Species

Fraxinus americana (White Ash)
Quercus rubra (Red Oak)
Acer saccharum (Sugar Maple)
Juglans nigra (Black Walnut)
Prunus serotina (Wild Black Cherry)
Platanus occidentalis (Sycamore)
Gleditsia triacanthos (Honey Locust)
Celtis occidentalis (Hackberry)

Predominant Understory Species

Cornus florida (Flowering Dogwood)
Sassafras albidum (Sassafras)
Aesculus glabra (Ohio Buckeye)
Asimina triloba (Pawpaw)
Ulmus rubra (Slippery Elm)
Fraxinus quadrangulata (Blue Ash)

Maturity of Woodland Trees

Trees measuring more than 60 dbh are listed by compartment:
 * indicates specimen is marked on map.

	<u>dbh</u>
<u>Compartment A</u>	
Populus deltoides (Cottonwood)	74.42
	72.0
Platanus occidentalis (Sycamore)	114.86
	103.54
	121.33
Quercus alba (White Oak)	111.63
Quercus rubra (Red Oak)	81.7
Quercus muehlenbergii (Yellow Oak)	85.0
Acer saccharum (Sugar Maple)	89.0
Fraxinus americana (White Ash)	100.6
Carya ovata (Shagbark Hickory)	69.56
	67.94
Liriodendron tulipifera (Tulip Tree)	64.0
	63.9
<u>Compartment B</u>	
Fraxinus americana (White Ash)	87.36
	97.1
	65.52
	68.0
	80.0
	81.7
	87.36
Quercus rubra (Red Oak)	81.7
	116.48
	73.6
	126.19
	126.24
	82.5
	95.45
Quercus alba (White Oak)	68.0
	89.0
	60.66
	75.22
	85.0
Quercus shumardii (Shumard Oak)	* 89.78
	* 89.0
	81.7
Quercus macrocarpa (Bur Oak)	* 113.24
Quercus velutina (Black Oak)	* 73.6
Platanus occidentalis (Sycamore)	94.45
	73.61
Fagus grandifolia (Beech)	70.0
Acer saccharum (Sugar Maple)	74.71
	64.0

	<u>Compartment C</u>	<u>dbh</u>	
Quercus rubra (Red Oak)		84.12	
		74.42	
		77.65	
		97.0	
		106.77	
		68.0	
		76.0	
		72.8	
		68.0	
		77.65	
Fagus grandifolia (Beech)		85.74	
		76.0	
Quercus muehlenbergii (Yellow Oak)		76.0	
Quercus velutina (Black Oak)		103.54	
Quercus shumardii (Shumard Oak)		75.23	
Fraxinus americana (White Ash)		84.12	
		77.65	
Acer saccharum (Sugar Maple)		74.42	
		64.56	
Populus deltoides (Cottonwood)		68.0	
		105.15	
	<u>Compartment D</u>		
Fraxinus americana (White Ash)		128.61	
		110.4	
		71.18	
		87.36	
		70.37	
		84.93	
		74.42	
		104.35	
		93.83	
		* 126.19	
		81.7	
		72.8	
		71.18	
	Quercus rubra (Red Oak)		77.65
		82.5	
		69.56	
		78.46	
		93.0	
		77.65	
		74.42	
Fagus grandifolia (Beech)		77.65	
		97.0	
		91.4	
		77.65	
		77.84	
		78.46	
		78.65	
	Acer saccharum (Sugar Maple)		82.5
			72.0
			68.0
		75.22	
Celtis occidentalis (Hackberry)		84.93	
		72.8	
		81.7	

	<u>Compartment E</u>	dbh
Fraxinus americana (White Ash)		73.61
		92.21
		83.31
Quercus rubra (Red Oak)		72.0
		102.0
		72.8
Prunus serotina (Wild Black Cherry)		88.78
		66.33
		68.0
Ulmus rubra (Slippery Elm)		64.71
Fraxinus quadrangulata (Blue Ash)		72.8
Fagus grandifolia (Beech)		76.0
	<u>Compartment F</u>	
Fraxinus americana (White Ash)		82.5
		66.33
		78.46
		85.74
		68.0
		63.2
		72.8
		82.5
		66.33
		100.31
		68.75
		84.12
Fagus grandifolia (Beech)		73.61
		88.98
		68.0
		73.61
		100.3
Quercus rubra (Red Oak)		69.56
		73.2
		86.42
		82.66
Quercus shumardii (Shumard Oak)		90.59
Prunus serotina (White Black Cherry)		68.41
		67.33
Acer saccharum (Sugar Maple)		88.17
Juglans nigra (Black Walnut)		76.0
Carya cordiformis (Bitternut Hickory)		63.52
Ulmus rubra (Slippery Elm)		60.22
Platanus occidentalis (Sycamore)		93.83
	<u>Compartment G</u>	
Platanus occidentalis (Sycamore)		* 144.0 (largest tree in park)
		119.4
		77.65
Celtis occidentalis (Hackberry)		64.71
		97.0
		68.28
		68.0
		63.44

<u>Compartment G cont'd</u>		dbh
Fraxinus americana (White Ash)		77.65
		63.42
Quercus macrocarpa (Bur Oak)		81.7
Quercus alba (White Oak)		60.38
Quercus muehlenbergii (Yellow Oak)		79.27
Juglans nigra (Black Walnut)		65.52
Acer saccharum (Sugar Maple)		68.66
Prunus serotina (Wild Black Cherry)		69.56
		60.24
Aesculus glabra (Ohio Buckeye)		63.6
Gleditsia triacanthos (Honey Locust)		74.42
Gymnocladus dioica (Kentucky Coffee Tree)		60.0
<u>Compartment H</u>		
Quercus rubra (Red Oak)		121.33
		87.74
		68.22
		61.0
Quercus velutina (Black Oak)		110.0
		85.74
		85.0
		81.7
Juglans nigra (Black Walnut)		60.0
		61.4
Gleditsia triacanthos (Honey Locust)		70.37
		68.2
Celtis occidentalis (Hackberry)		74.42
		63.2
Acer saccharum (Sugar Maple)		63.41
Fraxinus americana (White Ash)		72.8
		68.6
Prunus serotina (Wild Black Cherry)		63.21
Platanus occidentalis (Sycamore)		63.0
<u>Compartment I</u>		
Populus deltoides (Cottonwood)		*143.17 (2nd largest in park)
		84.93
		93.0
		78.46
		79.27
		83.31
		94.64
		77.65
		84.93
Platanus occidentalis (Sycamore)		104.35
		102.25
		116.48
		81.7
		89.78
		87.36
		97.0

<u>Compartment I cont'd</u>		dbh
Acer saccharinum (Silver Maple)		135.9
		73.61
		93.83
Fraxinus americana (White Ash)		114.86
Celtis occidentalis (Hackberry)		70.37
Juglans nigra (Black Walnut)		67.95
		72.0
Ulmus rubra (Slippery Elm)		75.22
		90.59
Morus rubra (Red Mulberry)		83.31
<u>Compartment J</u>		
Platanus occidentalis (Sycamore)		80.89
		92.91
		87.36
		63.4
		77.65
Quercus rubra (Red Oak)		116.48
		97.0
		87.36
		68.43
		81.7
Quercus macrocarpa (Bur Oak)	*	121.33
	*	97.0
Quercus muehlenbergii (Yellow Oak)		106.77
Quercus alba (White Oak)		68.0
Carya laciniata (Shellbark Hickory)	*	73.6
Carya tomentosa (Mockernut Hickory)		69.56
Acer saccharum (Sugar Maple)		60.6
Acer negundo (Box Elder)		60.95
Celtis occidentalis (Hackberry)		68.0
		72.4

II. Rare or Endangered Species

No species were encountered that are presently on the Ohio endangered list. However, three species on the check-list of this report are not found in most regions of Ohio and are worth noting in this section of the report. One specimen, Viburnum rufidulum, southern black haw, was encountered along the scrubby woodland edge of the east woods section bordering the golf course. The shrub is small and in rather poor condition. This species was listed as threatened (not endangered) in the 1984 listing of Ohio Endangered and Threatened Vascular Plants. It has been removed in later editions, in view of its turning up now and then in the counties bordering the Ohio River.

Another unusual species, Elephantopus carolinianus, elephant's foot, was found in two different parts of the park. This herbaceous species blooms in September, and it has been listed in only a handful of counties in south-central Ohio (The Dicotyledoneae of Ohio, T.R. Fisher, 1988).

A third species, Daphne Mezereum, mezereum, is an escaped European shrub not commonly found in a place like Sharon Woods. One small specimen was observed blooming in April in a semi-open area above Lone Oak Meadow.

Locations of all three of these species are marked on the accompanying large scale map.

III. Notes on Miscellaneous Observations

There are many scrub-thicket areas in Sharon Woods that are becoming overgrown with vine, and/or shrub type materials, particularly dense entanglement of Lonicera (honeysuckle) and Vitis (grape).

Another observation was that of the condition of the stand of red pines (Pinus resinosa) in the wooded section at the top of the hill behind Fern Hollow. I recall this pine grove from my acquaintance with Sharon Woods in 1952-55. A number of these trees are now becoming defoliated, and some are even dying.

Deer grazing does not appear to be a problem in Sharon Woods, although there are several evidences of their presence. In April the foliage of greenbrier (Smilax) in several sections of the park had been browsed by deer. In addition, deer tracks were seen regularly in soft areas throughout the period of investigation. Furthermore, in partially grown-up meadow areas bordering woods, sections of field vegetation had been matted down. Such places befitted the size and shape of a deer body.

Acknowledgements

On most of the visits to Sharon Woods, I was accompanied by two friends, Millie and Harry Perry. Their assistance was greatly appreciated, particularly their help with tree measurements.

CHECK-LIST OF SPECIES OF VASCULAR PLANTS IN SHARON WOODS PARK, BASED ON OBSERVATIONS BETWEEN MARCH 27 AND OCTOBER 22, 1989.

*Woody species

Family/Species	Common name	Earliest Flowering Date/ Abundance/Habitat		
<u>Acanthaceae</u>				
Ruellia caroliniensis	Late Ruellia	Aug	occ	bot
Ruellia strepens	Ruellia	June	occ	edg
<u>Aceraccae</u>				
* Acer negundo	Box elder	Mar.	com	scr
* Acer nigrum	Black maple	Mar.	loc	for
* Acer platanoides	Norway maple	Mar.	occ	cul
* Acer rubrum	Red maple	Mar.	loc	scr
* Acer saccharinum	Silver maple	Mar.	loc	bot
* Acer saccharum	Sugar maple	Mar.	com	for
<u>Amaranthaceae</u>				
Amaranthus hybridus	Green amaranth	Aug.	occ	edg
<u>Anacardiaceae</u>				
* Rhus aromatica	Fragrant sumac	---	loc	scr
* Rhus glabra	Smooth sumac	---	loc	edg
* Rhus radicans	Poison Ivy	June	fre	for scr
* Rhus typhina	Staghorn sumac	---	loc	edg
<u>Annonaceae</u>				
* Asimina triloba	Pawpaw	Apr	fre	for
<u>Apocynaceae</u>				
Apocynum cannabinum	Indian hemp	June	loc	edg
Vinca minor	Periwinkle	Mar	occ	edg
<u>Araceae</u>				
Arisaema atrorubens	Jack-in-the-pulpit	Apr	occ	for
Arisaema dracontium	Green dragon	May	occ	for

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Aristolochiaceae</u>				
* Aristolochia tomentosa	Pipe-vine	---	occ	for
Asarum canadense	Wild ginger	Apr	fre	for
<u>Asclepiadaceae</u>				
* Ampelamus albidus	Sand-vine	---	occ	bot
Asclepias exaltata	Early milkweed	June	occ	edg
Asclepias incarnata	Swamp milkweed	June	loc	bot
Asclepias tuberosa	Common milkweed	June	loc	edg
<u>Balsaminaceae</u>				
Impatiens capensis	Spotted jewel-weed	June	loc	edg
Impatiens pallida	Pale jewel-weed	June	fre	bot
<u>Berberidaceae</u>				
* Berberis thunbergii	Japanese barberry	May	occ	for
Podophyllum peltatum	May - apple	May	com	for
<u>Bignoniaceae</u>				
* Campsis radicans	Trumpet-creeper	Jun	occ	for
* Catalpa bignonioides	Catalpa	June	occ	edg
<u>Boraginaceae</u>				
Mertensia virginica	Virginia cowslip	Apr	occ	for
Myosotis verna	Spring forget-me-not	May	occ	scr
Cynoglossum virginianum	Wild comfrey	June	occ	for
<u>Campanulaceae</u>				
Campanula americana	Tall bellflower	Jul	occ	for
Campanula rapunculoides	Creeping bellflower	Jul	occ	edg
Lobelia inflata	Indian tobacco	Aug	loc	edg
Lobelia siphilitica	Great blue lobelia	Aug	occ	edg

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Caprifoliaceae</u>				
* Diervilla Lonicera	Bush honeysuckle	June	loc	scr
* Lonicera japonica	Japanese honeysuckle	May	com	edg
* Lonicera morrowi	Eurasian honeysuckle	May	occ	edg
* Lonicera sempervirens	Coral honeysuckle	May	loc	scr
* Sambucus canadensis	Common elder	June	loc	bot
* Symphoricarpos orbiculatus	Coral berry	---	occ	scr
* Viburnum dentatum	Southern arrowwood	---	occ	edg
* Viburnum prunifolium	Black haw	June	occ	for
* Viburnum rufidulum	Southern black-haw	May	occ	edg
* Viburnum opulus	High-bush cranberry	June	occ	scr
<u>Caryophyllaceae</u>				
Cerastium viscosum	Mouse-ear chickweed	Apr	loc	edg
Dianthus armeria	Deptford pink	Jul	loc	edg
Lychnis alba	White campion	May	loc	edg
Sagina procumbens	Pearlwort	Aug	occ	edg
Saponaria officinalis	Bouncing bet	Jul	loc	edg
Silene stellata	Starry campion	Jul	loc	for
Silene virginica	Fire pink	Jun	loc	for
Stellaria media	Chickweed	Apr	fre	edg
Stellaria pubera	Star chickweed	Apr	loc	for
Tunica prolifera	Solitary pink	Sep	loc	edg
<u>Celastraceae</u>				
* Celastrus orbiculata	Asian bittersweet	---	occ	edg
* Celastrus scandens	Bittersweet	---	occ	edg
* Euonymus alatus	Winged euonymus	---	occ	for
* Euonymus atropurpureus	Wahoo	---	occ	for
<u>Chenopodiaceae</u>				
Chenopodium album	Lamb's quarters	Jul	loc	edg
<u>Commelinaceae</u>				
Commelina communis	Asiatic dayflower	Sep	loc	edg
Tradescantia ohiensis	Ohio spiderwort	May	loc	for
Tradescantia subaspera	Zigzag Spiderwort	May	loc	for

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Compositae</u>				
Achillea millefolium	Yarrow	Jun	fre	edg
Ambrosia artemisiifolia	Common ragweed	Aug	fre	edg
Ambrosia trifida	Giant ragweed	Aug	fre	edg
Antennaria plantaginifolia	Plantain-leaved pussytoes	May	loc	scr
Anthemis cotula	Dog fennel	Jul	loc	edg
Arctium minus	Common burdock	Jul	loc	edg
Aster novae-angliae	New England aster	Sep	loc	edg
Aster praealtus	Willow aster	Sep	occ	for
Aster sagittifolius	Arrow-leaved aster	Sep	com	edg
Aster shortii	Short's aster	Oct	occ	edg
Aster simplex	Panicled aster	Sep	loc	edg
Aster vimineus	Smallwhite aster	Sep	loc	edg
Bidens aristosa	Tickseed-sunflower	Sep	loc	edg
Bidens bipinnata	Spanish needles	Aug	loc	edg
Bidens cernua	Beggar-tick	Sep	occ	edg
Bidens frondosa	Bur-marigold	Sep	occ	edg
Bidens polylepis	Bur-marigold	Sep	loc	edg
Carduus nutans	Nodding thistle	Jun	occ	edg
Centaurea cyanus	Bachelor's button	Sep	occ	edg
Chrysanthemum leucanthemum	Ox-eye daisy	Jun	fre	edg
Cichorium intybus	Chicory	Jun	fre	edg
Cirsium arvense	Canada thistle	Jun	occ	edg
Cirsium vulgare	Bull thistle	Jul	occ	edg
Cnicus benedictus	Blessed thistle	May	occ	edg
Coreopsis lanceolata	Tickseed	Sep	occ	edg
Elephantopus carolinianus	Elephant's foot	Sep	occ	for
Erigeron annuus	Whitetop	May	fre	edg
Erigeron philadelphicus	Fleabane	May	com	edg
Eupatorium coelestinum	Mist Mistflower	Sep	loc	edg
Eupatorium perfoliatum	Boneset	Aug	loc	edg
Eupatorium purpureum	Joe-pye weed	Jul	loc	edg
Eupatorium rugosum	White shakeroot	Jul	com	for
Eupatorium serotinum	Thoroughwort	Aug	loc	edg
Eupatorium sessiliflorum	Upland boneset	Jul	loc	for
Galinsoga parviflora	Galinsoga	Jul	loc	edg
Helianthus annuus	Common sunflower	Jul	occ	edg
Helianthus decapetalus	Thin-leaved sunflower	Aug	occ	scr
Helianthus microcephalus	Small wood-sunflower	Sep	occ	scr
Lactuca biennis	Wild lettuce	Jul	occ	scr
Lactuca canadensis	Wild lettuce	Jul	occ	edg
Lactuca floridana	Blue lettuce	Aug	loc	bot
Lactuca Serriola	Prickly lettuce	Jul	occ	edg
Parthenium integrifolium	Wild quinine	Jun	occ	for
Rudbeckia hirta	Black-eyed Susan	Jul	occ	edg
Rudbeckia laciniata	Green-headed coneflower	Aug	loc	edg
Rudbeckia speciosa	Showy coneflower	Jul	occ	edg
Rudbeckia triloba	Thin-leaved coneflower	Aug	occ	edg

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Compositae Continued</u>				
Senecio aureus	Golden ragwort	Apr	fre	bot
Silphium perfoliatum	Cup-plant	Aug	occ	edg
Solidago canadensis	Canadian goldenrod	Sep	fre	edg
Solidago erecta	Slender goldenrod	Sep	occ	edg
Solidago flexicaulis	Zigzag goldenrod	Sep	occ	for
Solidago macrophylla	Large-leaved goldenrod	Sep	occ	edg
Solidago memorialis	Gray goldenrod	Sep	occ	edg
Solidago patula	Rough-leaved goldenrod	Sep	occ	edg
Solidago ulmifolia	Elm-leaved goldenrod	Aug	occ	edg
Sonchus oleraceus	Sow thistle	Aug	occ	edg
Taraxacum officinale	Dandelion	Apr	com	edg
Tragopogon dubius	Yellow goat's beard	Jun	occ	edg
Verbesina alternifolia	Wingstem	Aug	occ	edg
Vernonia altissima	Ironweed	Jul	loc	edg
Xanthium strumarium	Common cocklebur	Sep	occ	edg
<u>Convolvulaceae</u>				
Convolvulus arvensis	Field Bindweed	Jul	loc	edg
Ipomoea pandurata	Wild sweet potato	Jul	loc	edg
Convolvulus sepium	Hedge bindweed	Jul	occ	scr
<u>Cornaceae</u>				
* Cornus florida	Flowering dogwood	May	loc	for
* Cornus drummondii	Rough-leaf dogwood	Jun	occ	scr
* Cornus stolonifera	Red osier	Jun	loc	edg
<u>Corylaceae</u>				
* Alnus serrulata	Common Alder	---	loc	bot
* Betula alba	European white birch	---	occ	cul
* Carpinus caroliniana	Blue beech	---	loc	for
* Corylus americana	Hazelnut	---	loc	scr
* Ostrya virginiana	Hop-hornbeam	---	loc	for
<u>Crassulaceae</u>				
Sedum ternatum	Wild stonecrop	Apr	occ	bot

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Cruciferae</u>				
Alliaria officinalis	Garlic mustard	Apr	com	for
Arabis canadensis	Sickle pod	Apr	loc	edg
Arabis laevigata	Smooth rock cress	Apr	loc	for
Arabis lyrata	Lyre-leaved rock cress	Apr	loc	edg
Barbarea verna	Early winter cress	Apr	occ	edg
Barbarea vulgaris	Winter cress	Apr	fre	edg
Brassica Kabor	Charlock	Jul	occ	edg
Brassica nigra	Black mustard	May	loc	edg
Brassica rapa	Field mustard	May	occ	edg
Capsella bursa-pastoris	Shepherd's purse	Apr	loc	edg
Cardamine hirsuta	Bittercress	Apr	occ	edg
Cardamine parvaflora	Bittercress	Apr	occ	bot
Cardamine pennsylvanica	Pennsylvania bittercress	Apr	occ	edg
Dentaria laciniata	Cut-leaved toothwort	Mar	com	for
Hesperis matronalis	Dame's rocket	May	fre	scr
Iodanthus pinnatifidus	Purple rocket	Apr	loc	for
Lepidium campestre	Field peppergrass	May	loc	edg
Nasturtium officinale	Watercress	Jun	occ	bot
Thaspi arvense	Field pennycress	May	loc	edg
<u>Cupressaceae</u>				
Juniperus virginiana	Red cedar	---	occ	scr
<u>Cyperaceae</u>				
Carex muricata	Sedge	May	occ	bot
Carex davissii	Sedge	June	occ	edg
Carex conjuncta	Sedge	Apr	occ	edg
Carex amphibola	sedge	Apr	loc	edg
Carex gracilescens	sedge	Apr	loc	scr
Cyperus strigosus	Umbrella sedge	---	occ	edg
<u>Dipsacaceae</u>				
Dipsacus sylvestris	Teasel	Jul	loc	edg
<u>Elaeagnaceae</u>				
* Elaeagnus angustifolia	Russian olive	Jun	loc	cul
* Elaeagnus multiflora	Oleaster	Jun	occ	cul

Family/Species	Common name	Earliest Flowering Date/ Abundance/Habitat		
<u>Equisetaceae</u>				
Equisetum arvense	Scouring rush	---	loc	bot
<u>Ericaceae</u>				
* Vaccinium neglectum	Deerberry	---	occ	edg
<u>Euphorbiaceae</u>				
Euphorbia supina	Spurge	Jul	loc	edg
<u>Fagaceae</u>				
* Fagus grandifolia	Beech	May	loc	for
* Quercus alba	White oak	May	fre	for
* Quercus imbricaria	Shingle oak	---	occ	for
* Quercus rubra	Red oak	May	com	for
* Quercus macrocarpa	Bur oak	May	loc	for
* Quercus muehlenbergii	Yellow oak	May	fre	for
* Quercus palustris	Pin oak	---	occ	cul
* Quercus shumardii	Shumard oak	---	occ	for
* Quercus velutina	Black oak	May	loc	for
<u>Geraniaceae</u>				
Geranium maculatum	Wild geranium	May	loc	bot
<u>Gramineae</u>				
Agropyron repens	Quack grass	Jun	occ	edg
Agrostis alba	Red top	Aug	loc	edg
Agrostis hyemalis	Bent grass	Jun	loc	edg
* Arundinaria gigantea	Bamboo	Jul	occ	edg
Avena fatua	Wild oats	Aug	occ	edg
Bromus inermis	Smooth brome	May	loc	edg
Bromus japonicus	Japanese chess	Jun	loc	edg
Dactylis glomerata	Orchard grass	May	com	edg
Danthonia spicata	Poverty oat grass	June	loc	scr
Digitaria sanguinalis	Crab grass	Jul	loc	edg

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
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Gramineae Continued

<i>Echinochloa crusgalli</i>	Barnyard grass	Jun	occ	edg
<i>Elymus villosus</i>	Wild rye	Jun	com	for
<i>Eragrostis capillaris</i>	Capillary love grass	Sep	occ	edg
<i>Eragrostis pectinacea</i>	Love grass	Jul	loc	edg
<i>Festuca elatior</i>	Meadow fescue	May	com	edg
<i>Festuca obtusa</i>	Nodding fescue	May	com	for
<i>Glyceria striata</i>	Manna grass	May	occ	edg
<i>Hystrix patula</i>	Bottle-brush grass	Jul	loc	for
<i>Muhlenbergia frondosa</i>	Muhlenbergia	May	loc	edg
<i>Panicum clandestinum</i>	Panic grass	Jun	com	for
<i>Paspalum pubiflorum</i>	Paspalum	Aug	loc	edg
<i>Phleum pratense</i>	Timothy	Jun	fre	edg
<i>Poa alsodes</i>	Bluegrass	Jun	fre	for
<i>Poa pratensis</i>	Kentucky bluegrass	May	loc	edg
<i>Poa sylvestris</i>	Woodland bluegrass	May	com	for
<i>Poa trivialis</i>	Rough bluegrass	Jul	occ	edg
<i>Setaria glauca</i>	Yellow foxtail grass	Aug	loc	edg
<i>Setaria viridis</i>	Green foxtail grass	Jun	loc	edg
<i>Triodia flava</i>	Purple top	Sep	loc	edg

Hamamelidaceae

* <i>Hamamelis virginiana</i>	Witch hazel	---	occ	bot
* <i>Liquidambar styraciflua</i>	Sweetgum	---	occ	edg

Hippocastanaceae

* <i>Aesculus glabra</i>	Ohio buckeye	May	com	for
* <i>Aesculus octandra</i>	Yellow buckeye	May	occ	edg

Hydrophyllaceae

<i>Hydrophyllum appendiculatum</i>	Appendaged waterleaf	May	fre	scr
<i>Hydrophyllum macrophyllum</i>	Large-leaved waterleaf	Jun	fre	for
<i>Phacelia purshii</i>	Miami mist	May	loc	for

Hypericaceae

<i>Hypericum mutilum</i>	Dwarf St. John's wort	Jul	occ	bot
<i>Hypericum perforatum</i>	Common St. John's wort	Jul	loc	edg
<i>Hypericum punctatum</i>	St. John's wort	Jul	occ	edg

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
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Iridaceae

<i>Sisyrinchium angustifolium</i>	Blue-eyed grass	Jun	occ	edg
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Juglandaceae

* <i>Carya cordiformis</i>	Bitternut hickory	May	fre	for
* <i>Carya laciniosa</i>	Big shell bark hickory	May	occ	edg
* <i>Carya ovalis</i>	Sweet pignut	May	occ	for
* <i>Carya ovata</i>	Shagbark hickory	May	fre	for
* <i>Carya tomentosa</i>	Mockernut hickory	May	occ	for
* <i>Juglans nigra</i>	Black walnut	May	com	for

Labiatae

<i>Agastache nepetoides</i>	Giant hyssop	Aug	occ	edg
<i>Blephilia hirsuta</i>	Hairy wood-mint	Jun	loc	bot
<i>Glechoma hederacea</i>	Ground ivy	Mar	loc	edg
<i>Lamium amplexicaule</i>	Common henbit	Mar	com	edg
<i>Lamium purpureum</i>	Red henbit	Mar	loc	edg
<i>Leonurus cardiaca</i>	Motherwort	Jun	loc	scr
<i>Mentha piperita</i>	Peppermint	Jul	occ	edg
<i>Monarda fistulosa</i>	Wild bergamot	Jul	occ	edg
<i>Nepeta cataria</i>	Catnip	Jul	occ	scr
<i>Prunella vulgaris</i>	Self-heal	Jul	freq	edg
<i>Scutellaria lateriflora</i>	Mad-dog Skullcap	Aug	occ	edg
<i>Scutellaria ovata</i>	Heart-leaved skullcap	Jun	occ	for
<i>Stachys tenuifolia</i>	Smooth hedge-nettle	Jul	loc	scr
<i>Teucrium canadense</i>	Germander	Jun	occ	edg

Lauraceae

* <i>Lindera benzoin</i>	Spice bush	Apr	fre	for
* <i>Philadelphus coronarius</i>	Mock orange	Jun	occ	scr
* <i>Sassafras albidum</i>	Sassafras	---	occ	scr

Leguminosae

<i>Amphicarpa bracteata</i>	Hog-peanut	Sep	occ	for
* <i>Cercis canadensis</i>	Redbud	Apr	loc	scr
<i>Desmodium canescens</i>	Hoary tick-trefoil	Sep	fre	edg
<i>Desmodium glutinosum</i>	Pointed-leaved tick-trefoil	Aug	fre	scr
<i>Desmanthus illinoensis</i>	Desmanthus	Jun	occ	edg
<i>Desmodium paniculatum</i>	Panicled tick-trefoil	Aug	occ	for
<i>Desmodium pauciflorum</i>	Tick trefoil	Aug	occ	for

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
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Leguminosae Continued

* <i>Gleditsia triacanthos</i>	Honey locust	May	loc	for
* <i>Gymnocladus dioica</i>	Kentucky coffee-tree	---	occ	for
<i>Lathyrus latifolius</i>	Everlasting pea	Jun	occ	edg
<i>Lespedeza repens</i>	Erect bushclover	Sep	occ	edg
<i>Lespedeza violacea</i>	Bush clover	Aug	occ	edg
<i>Medicago lupulina</i>	Black medick	Jun	loc	edg
<i>Melilotus alba</i>	White sweet clover	Jun	loc	edg
<i>Melilotus officinalis</i>	Yellow sweet clover	May	loc	edg
* <i>Robinia pseudoacacia</i>	Common black locust	May	loc	scr
<i>Trifolium hybridum</i>	Alsike clover	Jul	loc	edg
<i>Trifolium pratense</i>	Red clover	May	loc	edg
<i>Trifolium repens</i>	White clover	May	loc	edg

Liliaceae

<i>Allium canadense</i>	Wild garlic	Jun	fre	edg
<i>Allium vineale</i>	Field garlic	Jun	com	edg
<i>Asparagus officinalis</i>	Wild asparagus	Jul	occ	edg
<i>Camassia scilloides</i>	Wild hyacinth	Apr	loc	bot
<i>Erythronium albidum</i>	White trout-lily	Apr	loc	for
<i>Erythronium americanum</i>	Yellow trout-lily	Apr	loc	for
<i>Hemerocallis fulva</i>	Common day-lily	Jun	occ	edg
<i>Ornithogalum umbellatum</i>	Star-of-Bethlehem	May	loc	scr
<i>Polygatum biflorum</i>	Solomon's seal	May	com	for
<i>Polygatum canaliculatum</i>	Great solomon's seal	May	occ	scr
<i>Smilacina racemosa</i>	False solomon's seal	May	fre	for
* <i>Smilax glauca</i>	Greenbrier	---	occ	scr
<i>Smilax herbacea</i>	Carrion-flower	---	loc	for
* <i>Smilax tamnoides</i>	Bristly greenbrier	---	loc	for
<i>Trillium erectum</i>	Red trillium	Apr	fre	for
<i>Trillium flexipes</i>	Drooping trillium	May	occ	for
<i>Trillium grandiflorum</i>	White trillium	May	loc	for
<i>Uvularia sessilifolia</i>	Sessile bellwort	May	loc	for

Magnoliaceae

* <i>Liriodendron tulipifera</i>	Tulip-tree	May	fre	for
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Menispermaceae

* <i>Cocculus carolinus</i>	Carolina moonseed	Aug	occ	scr
* <i>Menispermum canadense</i>	Moonseed	Jun	fre	edg

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Moraceae</u>				
* <i>Maclura pomifera</i>	Osage orange	---	occ	edg
* <i>Morus alba</i>	White mulberry	May	occ	edg
* <i>Morus rubra</i>	Red mulberry	May	loc	scr
<u>Nyctaginaceae</u>				
<i>Mirabilis nyctaginea</i>	Four-o'clock	Jun	loc	edg
<u>Nyssaceae</u>				
* <i>Nyssa sylvatica</i>	Black gum	---	occ	for
<u>Oleaceae</u>				
* <i>Forsythia suspensa</i>	Forsythia	Mar	loc	cul
* <i>Fraxinus americana</i>	White ash	Apr	com	for
* <i>Fraxinus pennsylvanica</i> var. <i>subintegerrima</i>	Green ash	Apr	occ	scr
* <i>Fraxinus quadrangulata</i>	Blue ash	Apr	fre	for
* <i>Ligustrum vulgare</i>	Privet	Apr	occ	scr
<u>Onagraceae</u>				
<i>Circaea quadrisculata</i>	Enchanter nightshade	June	loc	for
<i>Epilobium coloratum</i>	Willow-herb	Jul	occ	bot
<i>Oenothera biennis</i>	Evening primrose	Aug	fre	edg
<u>Ophioglossaceae</u>				
<i>Botrychium dissectum</i>	Grape fern	---	occ	bot
<i>Botrychium virginianum</i>	Rattlesnake fern	---	loc	for
<u>Orobanchaceae</u>				
<i>Conopholis americana</i>	Squaw-root	---	loc	for
<u>Oxalidaceae</u>				
<i>Oxalis grandis</i>	Large yellow wood-sorrel	Jun	occ	scr
<i>Oxalis montana</i>	Common wood-sorrel	Apr	occ	edg
<i>Oxalis stricta</i>	Wood sorrel	May	fre	edg
<i>Oxalis violacea</i>	Violet wood-sorrel	May	occ	for

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Papaveraceae</u>				
Dicentra canadensis	Squirrel corn	Apr	loc	bot
Dicentra cucullaria	Dutchman's breeches	Apr	com	bot
Sanguinaria canadensis	Bloodroot	Mar	loc	for
<u>Phrymaceae</u>				
Phryma leptostachya	Lopseed	Jul	loc	scr
<u>Phytolaccaceae</u>				
Phytolacca americana	Pokeberry	Jun	loc	scr
<u>Pinaceae</u>				
* Picea Abies	Norway spruce	---	occ	cul
* Pinus resinosa	Red pine	---	loc	cul
* Pinus rigida	Pitch pine	---	occ	cul
* Pinus strobus	White pine	---	loc	cul
* Pinus sylvestris	Scotch pine	---	occ	cul
* Tsuga canadensis	Hemlock	---	occ	culfor
<u>Plantaginaceae</u>				
Plantago lanceolata	English plantain	Jun	fre	edg
Plantago major	Common plantain	Jul	fre	edg
<u>Plantanaceae</u>				
* Platanus occidentalis	Sycamore	May	fre	bot
<u>Polemoniaceae</u>				
Phlox divaricata	Common blue phlox	Apr	com	for
Phlox glaberrima	Smooth phlox (white)	Jul	occ	edg
Phlox maculata	Late phlox	Aug	occ	scr
Phlox paniculata	Garden phlox	Jul	occ	edg

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Polygonaceae</u>				
Polygonum amphibian	Water smartweed	Jun	occ	edg
Polygonum caespitosum	Long-bristled smartweed	Aug	fre	edg
Polygonum coccineum	Swamp smartweed	Jul	occ	bot
Polygonum hydropiperoides	Water pepper	Sep	occ	edg
Polygonum lapathifolium	Nodding smartweed	Aug	fre	edg
Polygonum pennsylvanicum	Pennsylvania smartweed	Aug	loc	edg
Polygonum persicaria	Lady's thumb	Jul	occ	edg
Polygonum virginianum	Virginia knotweed	Jun	fre	scr
Rumex acetosella	Sheep sorrel	Jun	fre	edg
Rumex crispus	Curled dock	Jun	loc	edg
Rumex obtusifolius	Broad-leaf dock	Jun	fre	edg
<u>Polypodiaceae</u>				
Asplenium platyneuron	Ebony spleenwort	---	loc	for
Athyrium pycnocarpon	Narrow-leaved spleenwort	---	occ	for
Cystopteris fragilis	Fragile fern	---	fre	for
Dryopteris spinulosa	Spinulose wood fern	---	loc	for
Polystichum acrostichoides	Christmas fern	---	occ	for
<u>Portulacaceae</u>				
Claytonia virginica	Spring beauty	Mar	com	for
Portulaca oleracea	Common purslane	Jul	occ	edg
<u>Primulaceae</u>				
Lysimachia nummularia	Moneywort	Jun	loc	edg
<u>Pyrolaceae</u>				
Monotropa uniflora	Indian pipe	---	occ	for
<u>Ranunculaceae</u>				
Actaea pachypoda	White baneberry	May	loc	scr
Anemonella thalictroides	Rue anemone	Mar	loc	for
Anemone virginiana	Thimbleweed	Jul	loc	for
Clematis virginiana	Virgin's-bower	Aug	occ	scr
Delphinium tricornis	Dwarf larkspur	Apr	fre	for
Isopyrum biternatum	False rue-anemone	Apr	loc	edg
Ranunculus abortivus	Kidney-leaf buttercup	Apr	occ	for
Ranunculus hispidus	Hispid buttercup	Apr	loc	for
Ranunculus septentrionalis	Swamp buttercup	May	occ	bot

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Rosaceae</u>				
Agrimonia gryposepala	Agrimony	Aug	loc	for
Agrimonia parviflora	Agrimony	Jul	loc	for
* Amelanchier arborea	Service berry	---	loc	edg
* Crataegus crus-galli	Cockspur thorn	May	occ	scr
* Crataegus disperma	Hawthorn	May	occ	scr
* Crataegus pedicellata	Hawthorn	May	occ	scr
* Crataegus mollis	Downy hawthorn	May	occ	scr
* Crataegus phaenopyrum	Washington thorn	May	occ	scr
Duchesnea indica	Indian strawberry	May	occ	edg
Fragaria vesca	Wood strawberry	Jun	occ	edg
Geum canadense	White avens	Jun	com	edg
Geum virginianum	Rough avens	Jul	occ	for
Potentilla norvegica	Rough cinquefoil	Jun	occ	edg
Potentilla recta	Upright cinquefoil	Jun	loc	edg
Potentilla simplex	Common cinquefoil	Jun	loc	edg
* Prunus americana	Wild plum	May	occ	scr
* Prunus serotina	Wild black cherry	May	com	for
* Prunus virginiana	Choke cherry	May	occ	scr
* Pyrus coronaria	Wild crab	Apr	occ	edg
* Pyrus malus	Common apple	Apr	occ	scr
* Pyrus melanocarpa	Black chokeberry	---	occ	bot
* Rosa multiflora	Multiflora rose	May	com	scr
* Rosa setigera	Climbing rose	Jun	fre	edg
* Rubus flagellaris	Northern dewberry	May	occ	edg
* Rubus frondosus	Blackberry	May	fre	edg
* Rubus occidentalis	Black raspberry	Jun	loc	edg
* Rubus pensilvanicus	Blackberry	May	loc	scr
<u>Rubiaceae</u>				
Galium aparine	Cleavers	May	com	scr
Galium asprellum	Early bedstraw	May	loc	for
Galium circaezans	White wild licorice	Jun	loc	for
Galium concinnum	Fine bedstraw	Jun	loc	for
Galium mollugo	Wild madder	May	loc	edg
Galium triflorum	Fragrant bedstraw	Sep	occ	for
Gallium verum	Spring bedstraw	May	loc	scr
<u>Rutaceae</u>				
* Ptelea trifoliata	Hop-tree	---	occ	for
* Xanthoxylum americanum	Prickly ash	---	occ	for

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Salicaceae</u>				
* <i>Populus deltoides</i>	Cottonwood	May	loc	edg
* <i>Salix interior</i>	Sand-bar willow	May	occ	edg
* <i>Salix nigra</i>	Black willow	May	loc	bot
<u>Sapindaceae</u>				
* <i>Koelreuteria paniculata</i>	Chinese varnish tree	---	occ	cul
<u>Saxifragaceae</u>				
* <i>Hydrangea arborescens</i>	Wild hydrangea	Jun	loc	for
<i>Penthorum sedoides</i>	Ditch stonecrop	Jul	occ	bot*
* <i>Ribes cynosbati</i>	Wild gooseberry	---	loc	for
<u>Scrophulariaceae</u>				
<i>Antirrhinum majus</i>	Snapdragon	Jul	occ	edg
<i>Aureolaria patula</i>	False foxglove	May	occ	for
<i>Gerardia laevigata</i>	Smooth false foxglove	Jul	loc	scr
<i>Mimulus alatus</i>	Sharp-winged monkey-flower	Aug	occ	bot
<i>Penstemon alluviorum</i>	Beard-tongue	Jun	occ	edg
<i>Scrophularia marilandica</i>	Figwort	Jul	occ	edg
<i>Verbascum blatteria</i>	Moth mullein	Jun	loc	edg
<i>Verbascum thapsus</i>	Common mullein	Jun	loc	edg
<i>Veronica peregrina</i>	Purslane speedwell	May	loc	edg
<i>Veronica serpyllifolia</i>	Thyme-leaved speedwell	May	loc	edg
<u>Simaroubaceae</u>				
* <i>Ailanthus altissima</i>	Tree-of-heaven	---	occ	scr
<u>Solanaceae</u>				
<i>Datura stramonium</i> (var. <i>totula</i>)	Purple Jimsonweed	Aug	occ	edg
<i>Physalis subglabrata</i>	Smooth ground-cherry	Sep	loc	edg
<i>Solanum carolinense</i>	Horse nettle	Jun	occ	edg
* <i>Solanum dulcamara</i>	Climbing nightshade	Jun	occ	scr
<i>Solanum migrum</i>	Black nightshade	Sep	occ	scr

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
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Staphyleaceae

* Staphylea trifolia	Bladdernut	---	loc	for
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Taxaceae

* Taxus canadensis	Yew	---	occ	cul
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Taxodiaceae

* Taxodium distichum	Bald cypress	---	occ	cul
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Thymelaeaceae

* Daphne Mezereum	Mezereum	Apr	occ	edg
* Dirca palustris	Leatherwood	---	occ	for

Tiliaceae

* Tilia europaea	European linden	Jun	occ	cul
* Tilia heterophylla	Basswood	May	occ	for
* Tilia neglecta	Basswood	May	loc	for

Typhaceae

Typha latifolia	Cat-tail	---	occ	edg
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Ulmaceae

* Ulmus americana	American elm	Apr	occ	bot
* Ulmus parviflora	Chinese elm	---	occ	edg
* Ulmus rubra	Slippery elm	Apr	loc	for
* Celtis occidentalis	Hackberry	May	com	scr

Abundance/Habitat

Umbelliferae

Anthriscus Cerefolium	Chervil	Jul	loc	edg
Chaerophyllum procumbens	Spreading chervil	Apr	occ	for
Conium maculatum	Poison hemlock	Jun	fre	edg
Cryptotaenia canadensis	Honewort	Jun	fre	for

Family/Species	Common Name	Earliest Flowering Date/ Abundance/Habitat		
<u>Umbelliferae Continued</u>				
<i>Daucus carota</i>	Queen Ann's lace	Jul	fre	edg
<i>Erigenia bulbosa</i>	Harbinger-of-spring	Mar	occ	for
<i>Osmorhiza claytoni</i>	Sweet cicely	May	loc	for
<i>Osmorhiza longistylis</i>	Aniseroot	May	fre	for
<i>Pastinaca sativa</i>	Wild parsnip	May	occ	edg
<i>Sanicula canadensis</i>	Black snakeroot	Jun	fre	for
<i>Sanicula gregaria</i>	Black snakeroot	Jun	loc	scr
<i>Thaspium trifoliatum</i>	Meadow parsnip	Jun	loc	edg
<i>Zizia aurea</i>	Golden Alexanders	May	loc	scr
<u>Urticaceae</u>				
<i>Laportea canadensis</i>	Wood-nettle	Aug	loc	bot
<i>Pilea pumila</i>	Clearweed	Aug	com	for
<i>Urtica dioica</i>	Stinging nettle	Jul	loc	edg
<u>Verbenaceae</u>				
<i>Verbena urticifolia</i>	White vervain	Jun	occ	edg
* <i>Vitex agnus-castus</i>	Chaste tree	Aug	occ	cul
<u>Violaceae</u>				
<i>Viola cuculta</i>	Marsh blue violet	Apr	occ	bot
<i>Viola papilionacea</i>	Common blue violet	Apr	com	for
<i>Viola pennsylvanica</i>	Smooth yellow violet	Apr	loc	for
<i>Viola pubescens</i>	Downy yellow violet	Apr	loc	for
<i>Viola striata</i>	Cream violet	May	loc	edg
<u>Vitaceae</u>				
* <i>Amelopsis arborea</i>	Pepper vine	---	occ	bot
* <i>Parthenocissus quinquefolia</i>	Virginia creeper	Jul	fre	for
* <i>Vitis labrusca</i>	Fox grape	---	loc	scr
* <i>Vitis riparia</i>	Riverbank grape	Jun	fre	edg
* <i>Vitis vulpina</i>	Frost grape	Jun	com	scr