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Site 3222: York Island, Bayfield County. 1956-08-21

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3222 ✓

Name: York Island

County: Bayfield

Date: Aug 21, 1956

Observers:

Size of Stand: 176 acres - Betula

Forest Type:

Topography:

Locality:

T:

R:

Sec:

Size of Area Sampled:

Soil Type:

Slope:

Directions

Condition of Stand: Uncut - no deer - Taxus thick and up to 10 ft. high. Soil poor & shallow

Open Grown Trees:

% Canopy:

Stumps:

1.	4.	7.	10.
2.	5.	8.	11.
3.	6.	9.	12.

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A ₀									
A ₁									
A ₂									
B									

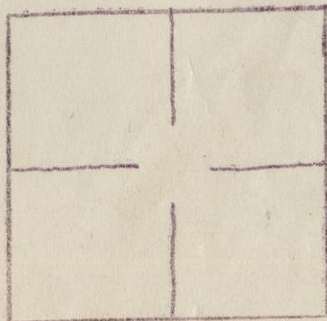
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1/2"								
A ₁	1"								
A ₂	2"								
B	6"								

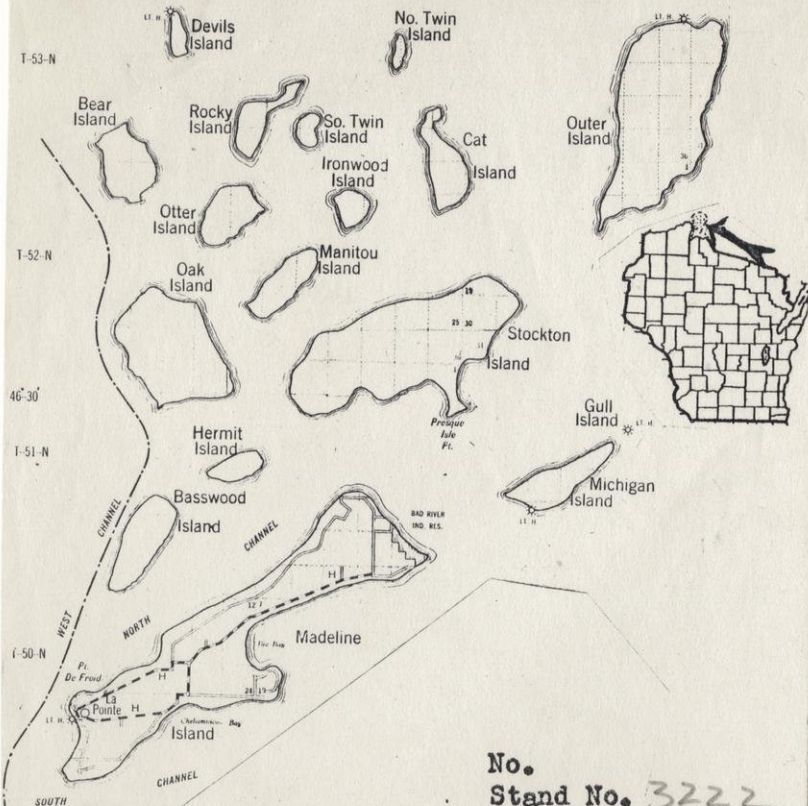
Parent Material: (entire profile more than 1' profile no more than 4" in some places)

Map:



Northern WISCONSIN ASHLAND County

APOSTLE ISLANDS in LAKE SUPERIOR



No.
Stand No. 3222
Date:

Collected by

Grant Cottam
Richard J. Vogl

TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

94 158 82 49 27 25,705 147

Station Number: 3222

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM.	# SAP	D. % SAP	F. % SDL.	F. % TRS.	% SUM F. TR.	D. % TRS.	DOM% TRS.	DFD INDEX	C. I.
			-80	-320	321										
Abies bals	25	54	43	10	1	396	69	46.9			26.6	34.2	15.4	76.2	
Acer rubru															
A. sacchar	7	10	1	8	1	1760					7.4	6.3	6.8	20.5	
A. spicatu															
Betula lut	24	40	4	13	23	1490	3	2.0			25.5	25.3	58.0	108.8	
B. papyrif	5	5	1	3	1	765	2	1.4			5.3	3.2	3.0	11.5	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen	1	1	1	-	-	20	4	2.7			1.1	.6	.1	1.8	
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi	20	34	20	13	1	3517	51	34.7			21.3	21.5	13.7	56.5	
Ulmus amer															
U. fulva															
Pinus AM.	12	14	12	2	-	769	18	12.2			12.8	8.9	3.0	24.7	
								99.9			100.0	100.0	100.0	300.0	

AVE. DIST. BTW'N TREES:

19.4
AVE SAP DIST. 25.4

AVE B. A.:

162.7

TREES/ACRE:

115.7
67.5

DOM./ACRE:

18824.4
130.7

POINT RECORD TREES APOSTLE ISLANDS

Point Number	11	12	13	14	15	16	17	18	19	20
<i>Abies balsamea</i>	70 27 3	45 24 20 2	55 16 22 3	13 25 3		50 3		40 1	120 28 3	12 2/15
<i>Acer rubrum</i>										
<i>Acer saccharum</i>	35									120 140 2/3
<i>Betula lutea</i>				270	380	110 28 430	85 70 1000 340	360 620		900 130 6/13
<i>Betula papyrifera</i>										
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>				150	35 70					2/3
<i>Pinus strobus</i>	50			1	2 45			40	55 20	3 4/5
<i>Pinus pennsylvanica</i>		1 20					2	2	1	1 1
						1	1	1		
Tree distance	10- 20 42 22	14 14- 11 29	6 10 55 15	9 10- 11 27	9- 40 10- 40	22 14- 20 20-	4 33 34 32	20 27 15 18	9 9 18 26	15 14 20 19
Sapling distance	17 12- 13 30	9 16 30 -	21 15 -	6 6 3 5	9 19 19 15	23 47 47 31	35 40 44 34	18 9 4 20	27 54 38 15	25 13 28 34

POINT RECORD TREES APOSTLE ISLANDS

Point Number	21	22	23	24	25	26	27	28	29	30
<i>Abies balsamea</i>	30 30 15		30 55		150	170	60 180			50
<i>Acer rubrum</i>	1	1	2	1	3		3	2		3
<i>Acer saccharum</i>										
<i>Betula lutea</i>		120 180	290	240 390	560	450	370	420	250 330	70 480
<i>Betula papyrifera</i>			15							
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>	30	65 25		150		150 40 45		80 100	170	
<i>Pinus strobus</i>		2	3	1	2	1	3	1	4	1
				20	70 50		45	24	40	150
	1					1		2		
Tree distance	8 11 7 24	16 7 11- 16	10- 10- 17 34	27 11- 13 22	17 19 22 22	7- 14- 10- 4	8- 16 9 25	12- 19 22- 8	28 25 17 18	35 28 26 18
Sapling distance	18 35 17 16-	14- 13 13 26	17 14 10- -	1 7 55 60	21 29 30 35	13- 23 11 27	14 13- 29 40	32 30 26 15	11 21- 40 42	21- 24 48 21

6/10

6/12

Y1

6/10

4/7

POINT RECORD TREES APOSTLE ISLANDS

Point Number	31	2	3	4	5	6	7	8	9	0	
Abies balsamea					70	260 50 110	100 50 60 3	100 60 35 13	23 70 170	35 60	5/15
Acer rubrum		2	2	1					2	2	
Acer saccharum				150	200		270				2/2
Betula lutea		490 450	880 450 440			440					3/4
Betula papyrifera								340			4/1
Quercus rubra											
Tsuga canadensis											
Thuja occidentalis	20 260 65	35 90	30	60 27	430				140	60 70	7/12
Pinus strobus	70			90							2/2
Juniperus communis	1							1	1		
Tree distance	12 11- 11- 17	19- 9 23 22	31 9 18 34	16 16- 48 35	16- 16- 11 28	26 55 16 18	9 24 12 24	14 20 30 21	20 21 35 28	13- 14 11- 16	
Sapling distance	5 3 16 20	29 36 44 40	25 21 12 42	22 17- 52 23	24 - - -	13- 22 9 22	16 24 15 21	17 12- 32 21	58 10- 45 -	20 22 28 25	

POINT RECORD TREES APOSTLE ISLANDS

Point Number	31	2	3	4	5	6	7	8	9	0	
<i>Abies balsamea</i>					70	260	100 50 10	100 50 60 55	23 70 170	35 60	5/15
<i>Acer rubrum</i>		2	2	1			3	13	2	2	
<i>Acer saccharum</i>				150	110		270				2/2
<i>Betula lutea</i>		496 400	880 450 440			440					3/6
<i>Betula papyrifera</i>								340			4/1
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>	20 260 65	35 90	30	60 27	430				140	60 70	2/12
<i>Pyrus Amer</i>	70			90							2/2
<i>Prunus pennsylv</i>											
Tree distance	12 11- 11- 17	19- 9 23 22	31 9 18 34	16 16- 48 35	16- 16- 11 28	26 55 16 18	9 14 12 24	14 20 30 21	20 21 35 28	13- 14 11- 16	
Sapling distance	5 3 16 20	22 36 44 40	25 21 12 42	22 17- 52 23	24 - - -	13- 22 9 22	16 14 15 21	17 12- 37 21	53 10- 45 -	20 22 28 25	

DEER DAMAGE REPORT FORM

Stand No. 3222

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	TAX	2		TAX	1		TAX	4		AS	2	
2	TAX	2		TAX	3		TAX	3		TAX	2	
3	TAX	1		TAX	1		TAX	1-		TAX	3	
4	TAX	3		TAX	2		TAX	1		TAX	1	
5	TAX	3		TAX	2		TAX	1		TAX	1	
6	TAX	2		TAX	2		TAX	4		TAX	5	
7	TO	10		TO	4		TAX	3		TAX	5	
8	TAX	1-		TAX	5		TAX	1/2		TAX	2	
9	AS	1/2		AS	3		AS	3		TAX	3	
10	TO	3		AS	3		AS	5		TAX	5	
11	TAX	2		TAX	2		TAX	2		TAX	3	
12	TAX	1		TAX	3		TAX	1/3		TAX	2	
13	TAX	1		TAX	2		TAX	3		TAX	2-	
14	TAX	1		TAX	2		TAX	3		TAX	1/3	
15	TAX	1/2		TAX	1/3		TAX	4		TAX	1	
16	TAX	1/2		TAX	1/2		TAX	1 1/2		TAX	1	
17	TAX	1		TAX	3		TAX	2		TAX	3	
18	TAX	1		TAX	1/2		TAX	1		TO	1 1/2	
19	TAX	1		TAX	2		TAX	1		TAX	1	
20	TAX	1		TAX	1 1/2		TAX	1		TAX	1	
21	TAX	1		TAX	2		TAX	1/3		AS		
22	TAX	3		TAX	1		TAX	1		TAX	2	
23	TAX	1		TAX	1/2		TAX	3		TAX	2	
24	AS	1/2		TAX	1		TAX	2		TAX	1	
25	TAX	2-		TAX	1		TAX	1		TAX	6	
26	TO	4		TAX	1		TAX	2		TAX	2 1/2	
27	TAX	1/2		TAX	1 1/2		TAX	2		TAX	1	
28	TAX	1		TAX	1		TAX	3		TAX	2	
29	TAX	1		TAX	2		TAX	2		TAX	1-	
30	TAX	1/2		TAX	2		TAX	6		TAX	5	
31	TAX	1/2		TAX	3		TO	3		TO	5	
32	TAX	2		TAX	3		TAX	1-		TAX	2	
33	TAX	2		TAX	1		TAX	2-		TAX	2	
34	TAX	2		TAX	2-		TAX	2		TAX	1-	
35	TAX	3		TAX	1-		TAX	1		TAX	1 1/2	
36	TAX	1		AS	5		TAX	2		TAX	1	
37	TAX	1		TAX	3-		TAX	1		TAX	1	
38	TAX	1		TAX	2		TAX	1		TAX	-	
39	TAX	4		TAX	2		TAX	3-		TAX	2	
40	TAX	1		TAX	2		TAX	3		TAX	1	

312.5

Ave. dist - 1.95
Browse per acre 11,463.2

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No.
Quadrat No.

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	5? Ribes americanum
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	51 " " <i>coarctata</i> Linnaea borealis	6 " " <i>Raspberry</i> Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	/ Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	97 53? Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
7 Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	51 " " <i>macrocarpa</i> Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

guss

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No.
Quadrat No.11-20
11 *Actaea*
Actaea pachypoda
*Actaea rubra**Adiantum pedatum**Allium tricoccum**Anemone quinquefolia**Aquilegia canadensis**Aralia nudicaulis**Aralia racemosa**Arisaema atrorubens**Aster macrophyllus**Aster sagittifolius**Athyrium angustum**Botrychium virginianum**Brachyelytrum erectum**Carex albursina**Caulophyllum thalictroides**Chimaphila umbellata**Circaea alpina**Circaea latifolia*19 *Clintonia borealis**Coptis trifolia**Corallorrhiza maculata**Cornus alternifolia**Cornus canadensis**Cornus rugosa**Corylus americana**Corylus cornuta**Cypripedium acaule**Diervilla lonicera**Dirca palustris**Dryopteris linnaeana**Dryopteris phegopteris*19 11 *Dryopteris spinulosa**Epifagus virginiana**Epigaea repens**Fragaria virginiana**Galium lanceolatum**Galium triflorum**Gaultheria procumbens**Gaylussacia baccata**Geranium maculatum**Geum canadense**Gnaphalium obtusifolium**Helianthemum* sp.*Helianthus strumosus**Hepatica acutiloba**Hepatica americana**Impatiens biflora*13 *Linnaea borealis* *capensis**Lonicera oblongifolia**Lupinus perennis**Lycopodium annotinum**Lycopodium complanatum*19 *Lycopodium lucidulum*19 *Lycopodium obscurum**Lysimachia quadrifolia**Maianthemum canadense* 19 17 15 13*Mitchella repens**Mitella diphylla**Mitella nuda**Monotropa uniflora**Myrica asplenifolia**Onoclea sensibilis**Oryzopsis asperifolia**Osmorhiza claytoni**Oxalis montana**Phryma leptostachya**Polygala pauciflora**Polygonatum commutatum**Polygonatum pubescens**Potentilla simplex**Prenanthes alba**Pteridium aquilinum**Pyrola elliptica**Pyrola rotundifolia**Pyrola secunda**Ranunculus recurvatus**Rhus radicans**Ribes americanum**Rosa* sp.*Rubus parviflorus**Rubus* (blackberry)*Rubus* (dewberry)*Sambucus pubens**Sanguinaria canadensis**Sanicula gregaria**Smilacina racemosa**Smilacina stellata**Smilax ecirrhata**Solidago ulmifolia**Streptopus roseus**Taxus canadensis**Thalictrum dioicum**Trientalis borealis**Trillium grandiflorum**Uvularia grandiflora**Uvularia sessilifolia**Vaccinium angustifolium**Vaccinium pennsylvanicum**Viburnum acerifolium**Viola canadensis*13 *Viola cucullata* *uncinata**Viola pallens**Viola pubescens**Waldsteinia fragarioides*

APOSTLE ISLANDS. Browse Pressure Form p. 2. Stand No. 3222

Species	Count	Rel. Dens.	Preference	Value
<i>Populus grandid.</i> ^{abies} 11	2	1.3	3	3.9
<i>P. tremuloides</i> ^{acer spic} 11	5	3.1	2 2	6.2
<i>Prunus pennsyl.</i>			2	
<i>P. virginiana</i>			3	
<i>Quercus rubra</i>			3	
<i>Ribes americanum</i>			2	
<i>Ribes hudsoni</i>				
<i>Rubus blackberry</i>			3	
<i>R. dewberry</i>			2	
<i>R. parviflorus</i>			3	
<i>R. rasperry</i>			3	
<i>Sambucus rubes.</i>			2	
<i>Sorbus americana</i>			1	
<i>Taxus canadensis</i> 36-36-37-37	146	91.3	1	91.3
<i>Thuja occident.</i> 11 1	6	3.8	1	3.8
<i>Tsuga canadensis</i> 1	1	.6	1	.6
<i>Vaccinium angust.</i>			2	
<i>V. myrtilloides</i>			2	
TOTAL	160			105.8

Extent of Browse	Count	Rel. D.	Weight	Value
O			0	
I			1	
M			2	
H			3	
T			4	
TOTAL				

Ave distance 1.95

Mean area

Browse per acre 11,463.2

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO.

XAbies balsamea
 XAcer rubrum
 XAcer saccharum
 XAcer spicatum
 XAmelanchier sp.
 XBetula lutea
 XBetula papyrifera
 Caprinus caroliniana
 Carya cordiformis
 Crataegus sp.
 Fagus grandiflora
 Fraxinus americana
 XFraxinus nigra

Fraxinus pennsylvanica
 Juglans cinerea
 Larix laricina
 Ostrya virginiana
 Picea glauca
 Pinus banksiana
 Pinus resinosa
 XPinus strobus
 Populus balsamifera
 Populus grandidentata
 Populus tremuloides
 XPrunus pennsylvanica
 Prunus serotina

Prunus virginiana
 Quercus alba
 Quercus ellipsoidalis
 Quercus macrocarpa
 Quercus rubra
 Sorbus decora
 XThuja occidentalis
 Tilia americana
 Tsuga canadensis
 Ulmus americana
 Ulmus fulva

XPYRUS AMER

HERBS AND SHRUBS

Actaea pachypoda
 Actaea rubra
 Adiantum pedatum
 Agrimonia gryposepala
 Allium tricoccum
 Alnus rugosa
 Amphicarpa bracteata
 Anemone canadensis
 Anemone quinquefolia
 Antennaria sp.
 Apocynum androsaemifolium
 Apocynum cannabinum
 Aquilegia canadensis
 XAralia nudicaulis
 Aralia racemosa
 Arctostaphylos uva-ursi
 Arisaema atrorubens
 Asarum canadense
 Asclepias phytolaccoides
 Aster cordifolius
 Aster lateriflorus
 Aster macrophyllus
 Aster prenanthoides
 Aster sagittifolius
 Aster shortii
 Aster umbellatus
 Athyrium angustum
 Aureolaria pedicularia
 Boehmeria cylindrica
 Botrychium virginianum
 Brachyelytrum erectum
 Bromus purgans
 Campanula americana
 Carex albursina
 Carex pensylvanica
 Caulophyllum thalictroides
 Celastrus scandens
 Chimaphila umbellata
 Chiogenes hispidula

Circaea alpina
 Circaea latifolia
 Claytonia caroliniana
 Claytonia virginiana
 XClintonia borealis
 Convolvulus spithameus
 Coptis trifolia
 Corallorrhiza maculata
 Corallorrhiza striata
 Cornus alternifolia
 Cornus canadensis
 Cornus femina
 Cornus rugosa
 Corylus americana
 Corylus cornuta
 Cryptotaenia canadensis
 Cyrtopodium acaule
 Cyrtopodium pubescens
 Cystopteris fragilis
 Danthonia spicata
 Dentaria diphylla
 Desmodium glutinosum
 Desmodium nudiflorum
 Dicentra canadensis
 Dicentra cucullaria
 Diervilla lonicera
 Dirca palustris
 XDryopteris linneana
 Dryopteris phegopteris
 XDryopteris spinulosa
 Epifagus virginiana
 Epigaea repens
 Equisetum arvense
 Erythronium americanum
 Fragaria virginiana
 Galium aparine
 Galium boreale
 Galium circaeans
 Galium concinnum

Galium lanceolatum
 Galium triflorum
 Gaultheria procumbens
 Gaylussacia baccata
 Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Goodyera pubescens
 Goodyera repens
 Habenaria bracteata
 Hamamelis virginiana
 Helianthus strumosus
 Hepatica acutiloba
 Hepatica americana
 Hieracium canadense
 Hydrophyllum virginianum
 Hystrix patula
 XImpatiens bifloraCAPENSIS
 Lactuca canadensis
 Laportea canadensis
 Lappula virginica
 Lathyrus ochroleucus
 Ledum groenlandicum
 Linnaea borealis
 Lonicera canadensis
 Lonicera hirsuta
 Lonicera oblongifolia
 Lonicera prolifera
 Luzula multiflora
 XLycopodium annotinum
 XLycopodium clavatum
 Lycopodium complanatum
 XLycopodium lucidulum
 XLycopodium obscurum
 Lycopodium tristachyum
 Lycopodium americanus
 Lycopodium uniflora
 Lysimachia quadrifolia
 XMaianthemum canadense

Melampyrum lineare
 Mitchella repens
 Mitella diphylla
 Mitella nuda
 Monarda fistulosa
 Moneses uniflora
 Monotropa uniflora
 Myrica asplenifolia
 Onoclea sensibilis
 Oryzopsis asperifolia
 Osmorhiza claytoni
 Osmunda cinnamomea
 Osmunda claytoniana
 Oxalis montana
 Panax quinquefolia
 Parietaria pennsylvanica
 Parthenocissus vitacea
 Pedicularis lanceolata
 Phyrma leptostachya
 Podophyllum peltatum
 Polemonium reptans
 Polygala pauciflora
 Polygonatum commutatum
 Polygonatum pubescens
 Potentilla simplex
 Prenanthes alba
 Pteretis nodulosa
 Pteridium aquilinum

Pyrola elliptica
 Pyrola rotundifolia
 Pyrola secunda
 Ranunculus abortivus
 Ranunculus recurvatus
 Ranunculus septentrionalis
 Rhus radicans
 Rhus typhina
 Ribes americanum
 Ribes cynosbati
 Ribes lacustre
 Ribes triste
 Rubus idaeus
 Rubus parviflorus
 Rubus hispidus
 Rubus - blackberry
 Rubus - dewberry
 X Rubus - raspberry
 Sambucus canadensis
 X Sambucus pubens
 Sanguinaria canadensis
 Sanicula gregaria
 Schizachne purpurascens
 Scutellaria lateriflora
 Shepherdia canadensis
 Smilacina racemosa
 Smilacina stellata
 Smilax ecirrhata

Smilax herbacea
 Smilax hispida
 Solidago latifolia
 Solidago ulmifolia
 Streptopus amplexifolius
 Streptopus roseus
 X Taxus canadensis
 Thalictrum dioicum
 Tiarella cordifolia
 X Trientalis borealis
 Trillium cernuum
 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 Viburnum acerifolium
 Viburnum affine
 Viburnum lentago
 Viola canadensis
 Viola cucullata
 X Viola incognita
 Viola pallens
 Viola pubescens
 Vitis aestivalis
 Vitis riparia
 Waldsteinia fragarioides
 Zanthoxylum americanum

Additional Species: