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Site 3206: Outer Island #8, Ashland County. 1954-08-2

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3204 ✓

Name: OUTER ISLAND #8

County: ASHLAND

Date: 8/2/54

Size of Stand 5 ACRES

Forest Type: TSUGA-THWA

Topography: LEVEL - LOWLAND

Locality: NORTH

T:

R:

Sec:

Observers: COTTAM, HABECK, & VOGL

Size of Area Sampled: 5 ACRES

Soil Type:

Slope:

Directions

Condition of Stand: A "LOWLAND BOG", SPOTTED WITH SPAGNUM, WHICH HAD NEVER BEEN CUT, OR AT LEAST WITH NO EVIDENCE OF CUTTING. THIS "BOG" WAS FOUND IN THE MIDDLE OF A YELLOW BIRCH - HEMLOCK STAND STAND WAS TOO SMALL TO MAKE 40 POINTS.

Open Grown Trees:

% Canopy: SKIES WERE CLOUDY WITH HALF-
A GALE BLOWING OUT OF THE
NORTHEAST

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.)

A₀ SOIL IS WOOD PEAT - DEPTH GREATER THAN 1'

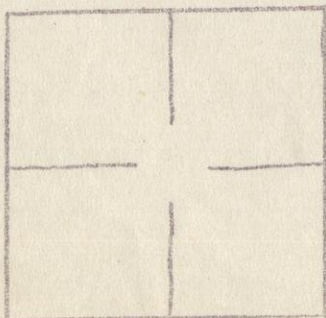
A₁

A₂

B

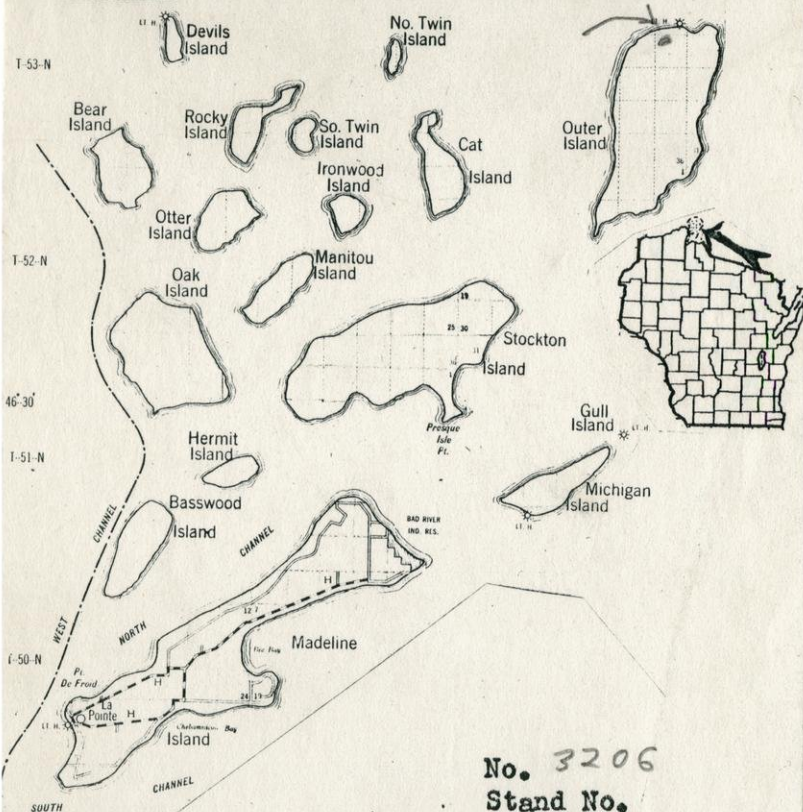
Parent Material:

Map:



**Northern WISCONSIN
ASHLAND County**

**APOSTLE ISLANDS in
LAKE SUPERIOR**



No. 3206

Stand No.

Date:

Collected by

Grant Cottam
Richard J. Vogl

Northern Pine-Hardwoods

Station Number: 3206

49 80 69 10 1 3804 80

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							6	7.5							
Acer rubru	10	18	16	2		660	10	12.5			20.4	22.5	17.4	60.3	
A. sacchar	1	1	1			14					2.0	1.2	.4	3.6	
A. spicatu															
Betula lut	11	15	14	1		571	8	10.0			22.4	18.8	15.0	56.2	
B. papyrif															
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana	14	28	21	6	1	2026	29	36.2			28.6	35.0	53.3	116.9	
Thuja occi	11	16	15	1		496	22	27.5			22.4	20.0	13.0	55.4	
Ulmus amer															
U. fulva															
Pyrus amr	2	2	2			37	5	6.3			4.1	2.5	1.0	7.6	
								100.0			99.9	100.0	100.1	300.0	

AVE. DIST. BTW'N TREES: 9.8

AVE SAPLING DIST. 7.8

AVE B. A.: 47.6

TREES/ACRE: 453.6

716.0

DOM./ACRE:

21591.4

149.9

POINT RECORD TREES APOSTLE ISLANDS

3206

Point Number	1	2	3	4	5	6	7	8	9	10
<i>Abies balsamea</i>		1	1							
<i>Acer rubrum</i>		52	87	33	14		27 55			4/5
<i>Acer saccharum</i>				2	14				2	1 1/1
<i>Betula lutea</i>	✓		22 37 32	45			26 ✓	18	22 ✓ 29 25	52 6/10
<i>Betula papyrifera</i>										
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>	23 38 16 26	16 16		27 22	15 16 16					12 28 5/12
<i>Thuja occidentalis</i>		18			96	13 15 22	15	32 23 15	43	18 7/12
PYRUS AMERICANA		2			1	16	3	1	1	2
Tree distance	7 17 19 14.5	5 9.5 10.5 19	4 8 7 16	11.5 15 10.5 17.5	12 12 7.5 12.5	8 6 2 15	7 7 10 13	3 6 9.5 17	14.5 8 22 9.5	5 8 9 8
Sapling distance	5 6 8 11.5	7.5 10 7 13	7 10 11 14	2 5.5 7 6	8 5.5 2 8	3 5 4 8	3 7 6 11	3 11 6 10	4 3 8 5	9.5 17 18.5 5

POINT RECORD TREES APOSTLE ISLANDS

3206

Point Number	1	2	3	4	5	6	7	8	9	20
<i>Abies balsamea</i>										
<i>Acer rubrum</i>	25 12 1	✓ 1	2	28 110 1	12 12 45	50 21 13	20 18	35 23		4/13
<i>Acer saccharum</i>										
<i>Betula lutea</i>	36	16	✓	46			146		25	5/5
<i>Betula papyrifera</i>							1		2	2
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>	13	14 32 175 2	30 42 120 2	250	18 ✓ 4	✓ 2	20 180 ✓	12	15 110	460 280 2 9/14
<i>Thuja occidentalis</i>			40		✓	45	✓	35	50	4/4
<i>Pyrus americana</i>		1	2	2		1	✓	12	25 3	2/2
						1				
Tree distance	15 2.5 13 16	2 4 6 12	8.5 11 11.5 13.0	7 8.5 18 8	35 3.0 2.5 7.0	7.5 13.0 10.5 17.0	9.5 9.5 3.5 6.0	7.0 30.0 11.5 7.0	3.0 7.0 4.0 14.5	5.0 8.0 7.0 7.5
Sapling distance	5.5 12 8 10	2 8 6 9	7 11 12.5 3	8 4.5 7 10.5	8.0 8.5 3.0 11.5	7.0 2.0 6.0 17.5	3.5 9.0 7.0 12.5	5.0 8.0 8.0 14.0	3.0 7.0 8.0 13.0	3.0 10.5 16.5 18.0

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3206
Quadrat No. 1-10

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.	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	Linnaea borealis	Sambucus pubens
9,3 Carex albursina 3P 10	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
7,5 Clintonia borealis 10	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	3 Trientalis borealis 5
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
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides
7,5 CHIOGENES hispidula 5		7,5,3,1 ACER SPIC. 20
		1 GRASS ? 5

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3206
Quadrat No. 11-20

<i>Actaea pachypoda</i>	<i>Fragaria virginiana</i>	<i>Potentilla simplex</i>
<i>Actaea rubra</i>	<i>Galium lanceolatum</i>	<i>Prenanthes alba</i>
<i>Adiantum pedatum</i>	<i>Galium triflorum</i>	<i>Pteridium aquilinum</i>
<i>Allium tricoccum</i>	<i>Gaultheria procumbens</i> 17	<i>Pyrola elliptica</i>
<i>Anemone quinquefolia</i>	<i>Gaylussacia baccata</i>	<i>Pyrola rotundifolia</i>
<i>Aquilegia canadensis</i>	<i>Geranium maculatum</i>	<i>Pyrola secunda</i>
13 <i>Aralia nudicaulis</i>	<i>Geum canadense</i>	<i>Ranunculus recurvatus</i>
<i>Aralia racemosa</i>	<i>Gnaphalium obtusifolium</i>	<i>Rhus radicans</i>
<i>Arisaema atrorubens</i>	<i>Helianthemum sp.</i>	<i>Ribes americanum</i>
<i>Aster macrophyllus</i>	<i>Helianthus strumosus</i>	<i>Rosa sp.</i>
<i>Aster sagittifolius</i>	<i>Hepatica acutiloba</i>	<i>Rubus parviflorus</i>
<i>Athyrium angustum</i>	<i>Hepatica americana</i>	<i>Rubus (blackberry)</i>
<i>Botrychium virginianum</i>	<i>Impatiens biflora</i>	<i>Rubus (dewberry)</i>
<i>Brachyelytrum erectum</i>	<i>Linnaea borealis</i>	<i>Sambucus pubens</i>
<i>Carex albursina</i>	<i>Lonicera oblongifolia</i>	<i>Sanguinaria canadensis</i>
<i>Caulophyllum thalictroides</i>	<i>Lupinus perennis</i>	<i>Sanicula gregaria</i>
<i>Chimaphila umbellata</i>	<i>Lycopodium annotinum</i>	<i>Smilacina racemosa</i>
<i>Circaea alpina</i>	<i>Lycopodium complanatum</i>	<i>Smilacina stellata</i>
<i>Circaea latifolia</i>	<i>Lycopodium lucidulum</i>	<i>Smilax ecirrhata</i>
<i>Clintonia borealis</i> 15, 17	<i>Lycopodium obscurum</i>	<i>Solidago ulmifolia</i>
13 <i>Coptis trifolia</i> 17	<i>Lysimachia quadrifolia</i>	<i>Streptopus roseus</i> 19
<i>Corallorrhiza maculata</i>	13, 11 <i>Maianthemum canadense</i> 17	<i>Taxus canadensis</i>
<i>Cornus alternifolia</i>	<i>Mitchella repens</i>	<i>Thalictrum dioicum</i>
13 <i>Cornus canadensis</i> 17, 19	<i>Mitella diphylla</i>	13, 11 <i>Trientalis borealis</i> 15, 17
<i>Cornus rugosa</i>	<i>Mitella nuda</i>	<i>Trillium grandiflorum</i>
<i>Corylus americana</i>	<i>Monotropa uniflora</i>	<i>Uvularia grandiflora</i>
<i>Corylus cornuta</i>	<i>Myrica asplenifolia</i>	<i>Uvularia sessilifolia</i>
<i>Cypripedium acaule</i>	<i>Onoclea sensibilis</i>	<i>Vaccinium angustifolium</i>
<i>Diervilla lonicera</i>	<i>Oryzopsis asperifolia</i>	<i>Vaccinium pennsylvanicum</i>
<i>Dirca palustris</i>	<i>Osmorhiza claytoni</i>	<i>Viburnum acerifolium</i>
<i>Dryopteris linnaeana</i>	<i>Oxalis montana</i> 17, 19	<i>Viola canadensis</i>
<i>Dryopteris phegopteris</i>	<i>Phryma leptostachya</i>	<i>Viola cucullata</i>
<i>Dryopteris spinulosa</i> 19	<i>Polygala pauciflora</i>	<i>Viola pallens</i>
<i>Epifagus virginiana</i>	<i>Polygonatum commutatum</i>	<i>Viola pubescens</i>
<i>Epigaea repens</i>	<i>Polygonatum pubescens</i>	<i>Waldsteinia fragarioides</i>
<i>Chorizanthe</i> 17		13, 11 <i>ACER SPIC.</i>

DEER DAMAGE REPORT FORM

Stand No. 3206

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	TC	8		TC	9		TC	6		TC	8	
2	AB	1.5		AB	2.5		TC	5		AR	2.0	
3	NM	4		AB	4		NM	4		PS	7	
4	AR	2		NM	6		TO	4		TO	7	
5	TO	3		TO	2		TO	5		TO	8	
6	TC	7		TC	6		AB	6		TC	8	
7	AM	6		TO	4		TC	8		TC	4	
8	AB	4		TO	3.5		H	4		H	7	
9	TC	8		TC	8		AR	8		AR	4	
10	TC	8		TC	6		TC	8		PS	11.5	
11	AR	1		AR	3		TC	12		TC	6	
12	AB	1.5		TC	4		TC	6		TC	9	
13	TC	6		TO	8		TO	5		TC	6	
14	DAM	5		AR	7		AM	6		TC	8	
15	TC	8		TC	2.5		TC	4		TC	3.0	
16	TO	.5		TO	2		TO	3		TO	2.5	
17	TO	3		TC	6		TC	10.5		TC	7.0	
18	TC	5		AS	3.5		TO	8.0		TO	7.0	
19	TC	2.5		TC	2.0		TC	4.0		TC	14.0	
20	TC	5.5		TO	10.0		TC	4.5		AS	10.5	
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												

464.0

TC - TSUGA CAN.

AR - ACER RUBRUM

NM - Nemopanthus macronata

PAM - Pyrus americana

PS - PINUS STROBUS

AM - AMELANCHIER SP.

ave. dist. 5.8

Browse per acre. 12949

APOSTLE ISLANDS. Browse Pressure Form.

Stand No. 3206

Species	Count	Rel. Dens.	Preference	Value
Abies balsamea 	7	8.8	3	26.4
Acer rubrum 	6	7.5	1	7.5
A. saccharum			3	
A. spicatum //	2	2.5	2	5.0
Alnus rugosa			4	
Amelanchier sp. //	2	2.5	2	5.0
Berberis Thu.				
Betula lutea			2	
B. papyrifera			3	
Cornus rugosa				
C. stolonifera			2	
Corylus cornuta			3	
Diervilla Lon.			3	
Fraxinus ameri.			3	
F. nigra			2	
Gaylussacia b.			3	
Larix laricina			4	
Ledum groenlandicum			3	
Lonicera canad.			2	
L. oblongifolia				
Nemopanthus m. //	3	3.8	3	11.4
Ostrya virginiana			4	
Picea glauca			4	
P. mariana			4	
Pinus Strobus //	2	2.5	2	5.0

~~H T~~

Species	Count	Rel. Dens.	Preference	Value
Populus grandid.			3	
P. tremuloides			3	
Prunus pennsylv.			2	
P. virginiana			3	
Quercus rubra			3	
Ribes americanum			2	
Ribes hudsoni.				
Rubus blackberry			3	
R. dewberry			2	
R. parviflorus			3	
R. raspberry			3	
Sambucus pubes.			2	
Sorbus americana 1	1	1.3	1	1.3
Taxus canadensis			1	
Thuja occident. 	18	22.5	1	22.5
Tsuga canadensis 	39	48.8	1	48.8
Vaccinium angust.			2	
V. myrtilloides			2	
TOTAL	80			132.9

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

Ave distance 5.8 Mean area Browse per acre 1294.9

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3206

X *Abies balsamea*
 X *Acer rubrum*
 Acer saccharum
 X *Acer spicatum*
 X *Amelanchier* sp.
 X *Betula lutea*
 Betula papyrifera
 Caprinus caroliniana
 Carya cordiformis
 Crategeus sp.
 Fagus grandiflora
 Fraxinus americana
 Fraxinus nigra

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

Prunus virginiana
 Quercus alba
 Quercus ellipsoidalis
 Quercus macrocarpa
 Quercus rubra
 Sorbus decora
 X *Thuja occidentalis*
 Tilia americana
 X *Tsuga canadensis*
 Ulmus americana
 Ulmus fulva
 X *PYRUS AMERICANA*

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
 X *Aralia 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
 X *Carex albursina* SP
 Carex pensylvanica
 Caulophyllum thalictroides
 Celastrus scandens
 Chimaphila umbellata
 X *Chiogenes hispidula*

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

Galium lanceolatum
 Galium triflorum
 X *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
 Impatiens biflora
 Lactuca canadensis
 Laportea canadensis
 Lappula virginica
 Lathyrus ochroleucus
 Ledum groenlandicum
 Linnaea borealis
 X *Lonicera canadensis*
 Lonicera hirsuta
 Lonicera oblongifolia
 Lonicera prolifera
 Luzula multiflora
 X *Lycopodium annotinum*
 Lycopodium clavatum
 Lycopodium complanatum
 X *Lycopodium lucidulum*
 Lycopodium obscurum
 Lycopodium tristachyum
 Lycopus americanus
 Lycopus uniflora
 Lysimachia quadrifolia
 X *Maianthemum canadense*

X *IRIS VERSICOLOR*

Data Form No. 17 (P.2)

Melampyrum lineare	Pyrola elliptica	Smilax herbacea
Mitchella repens	Pyrola rotundifolia	Smilax hispida
Mitella diphylla	Pyrola secunda	Solidago latifolia
Mitella nuda	Ranunculus abortivus	Solidago ulmifolia
Monarda fistulosa	Ranunculus recurvatus	X Streptopus amplexifolius
Moneses uniflora	Ranunculus septentrionalis	X Streptopus roseus
Monotropa uniflora	Rhus radicans	Taxus canadensis
Myrica asplenifolia	Rhus typhina	Thalictrum dioicum
Onoclea sensibilis	Ribes americanum	Tiarella cordifolia
Oryzopsis asperifolia	Ribes cynosbati	X Trientalis borealis
Osmorhiza claytoni	Ribes lacustre	Trillium cernuum
X Osmunda cinnamomea	Ribes triste	Trillium grandiflorum
Osmunda claytoniana	Rubus idaeus	Uvularia grandiflora
X Oxalis montana	Rubus parviflorus	Uvularia sessilifolia
Panax quinquefolia	Rubus hispidus	X Vaccinium angustifolium
Parietaria pennsylvanica	Rubus - blackberry	Vaccinium pennsylvanicum
Parthenocissus vitacea	Rubus - dewberry	Viburnum acerifolium
Pedicularis lanceolata	Rubus - raspberry	Viburnum affine
Phytolacca leptostachya	Sambucus canadensis	Viburnum lentago
Podophyllum peltatum	Sambucus pubens	Viola canadensis
Polemonium reptans	Sanguinaria canadensis	Viola cucullata
Polygala pauciflora	Sanicula gregaria	Viola incognita
Polygonatum commutatum	Schizachne purpurascens	Viola pallens
Polygonatum pubescens	Scutellaria lateriflora	Viola pubescens
Potentilla simplex	Shepherdia canadensis	Vitis aestivalis
Prenanthes alba	Smilacina racemosa	Vitis riparia
Pteris nodulosa	Smilacina stellata	Waldsteinia fragarioides
Pteridium aquilinum	Smilax ecirrhata	Zanthoxylum americanum

Additional Species:

Nemophila mucronata ✓