



LIBRARIES

UNIVERSITY OF WISCONSIN-MADISON

Site 3174: North Twin Island, Ashland County. 1956-06-29

[s.l.]: [s.n.], 1956-06-29

<https://digital.library.wisc.edu/1711.dl/4HTVVF5UPAO5V8A>

This material may be protected by copyright law (Title 17, US Code).

For information on re-use see:

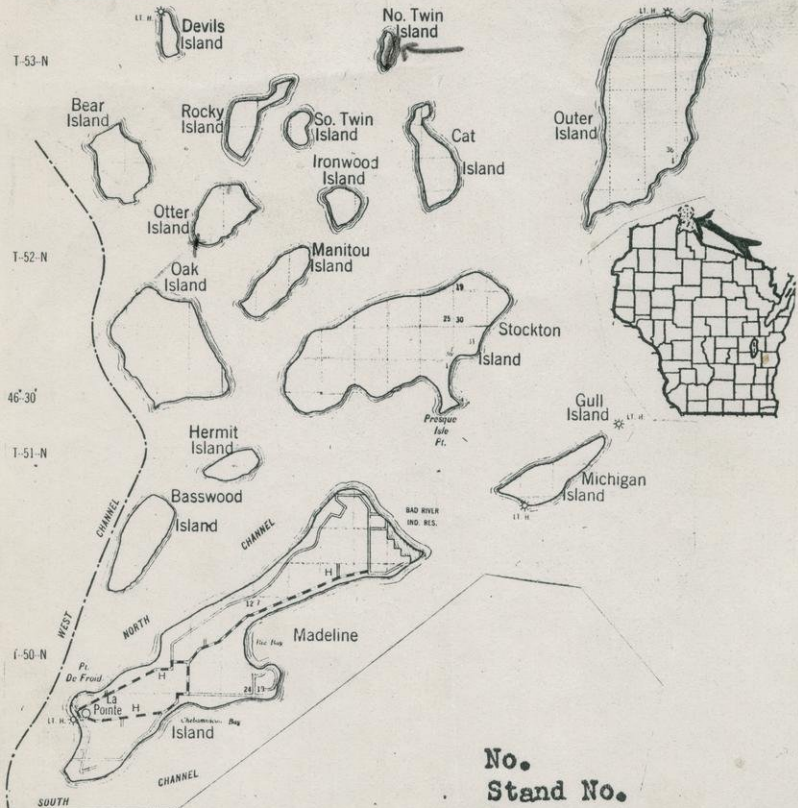
<http://digital.library.wisc.edu/1711.dl/Copyright>

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.

Northern WISCONSIN
ASHLAND County

**APOSTLE ISLANDS in
LAKE SUPERIOR**



No.
Stand No.
Date:

Collected by

Grant Cottam
Richard J. Vogl

STAND RECORD

FORESTS

Stand No. 2

3174 ✓

Name: *North Twin Island* Locality:
 County: *Ashland* T: R: Sec:
 Date: *6/29/56* Observers:
 Size of Stand: *175 acres* Size of Area Sampled: *60 Acres*
 Forest Type: *Yellow Birch - Balsam* Soil Type:
 Topography: *flat* Slope: Directions

Condition of Stand: *This island is uncut and ungrazed and has no deer. IT is fairly open with old open-grown yellow birch trees, one of which was 14' 10" in circumference*

Open Grown Trees:	% Canopy:		
Stumps:			
1.	4.	7.	10.
2.	5.	8.	11.
3.	6.	9.	12.

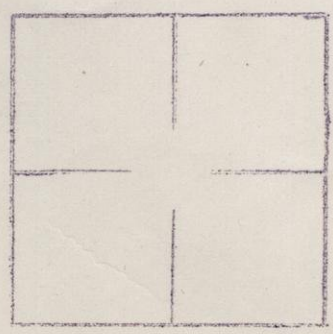
Soil Data:									
	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A ₀	_____	_____	_____	_____	_____	_____	_____	_____	_____
A ₁	_____	_____	_____	_____	_____	_____	_____	_____	_____
A ₂	_____	_____	_____	_____	_____	_____	_____	_____	_____
B	_____	_____	_____	_____	_____	_____	_____	_____	_____

DEPTH CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	$\frac{1}{2}$ "	TAXUS LEAVES	} 2" Pink sand 12"
A ₁	2"	BLACK - DECOMPOSED ORGANIC MATERIAL	
A ₂	2"	BROWN - CLAY & SOME SAND	
B	2	LIGHT BROWN - SAND & CLAY MIX	

Parent Material: SANDSTONE (LAKE SUPERIOR)

Map:



Northern Pine-Hardwoods

63 104 53 28 23 24 98 91

Station Number: 3174

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	24	38	33	5	-	2001	48	52.7			38.1	36.5	8.2	82.8	
Acer rubru	1	2		2	-	480	1	1.1			1.6	1.9	1.9	5.4	
A. sacchar	3	6	1	3	2	2040	-				4.8	5.8	8.2	18.8	
A. spicatu															
Betula lut	20	31	3	11	20	1840	2	2.2			31.7	32.7	92.6	137.0	
B. papyrif							1	1.1							
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen	6	10	10	-	-	241	28	30.8			9.5	9.6	1.0	20.1	
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi	9	14	6	7	1	2025	11	12.1			14.3	13.5	8.1	35.9	
Ulmus amer															
U. fulva								100.0			100.0	100.0	100.0	300.0	

AVE. DIST. BTW'N TREES: 22.8
AVE SAP DIST 35.7

AVE B. A.: 240.3

TREES/ACRE: 83.8
34.2

DOM./ACRE: 20137.1
139.8

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 2

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	40	30 30	35	95	55	200	50	12	25	75
Acer rubrum	4	35 110 3	1	3	100	3	2	35	2	3
A. sacchar.	✓									
A. spicatum							✓			
Betula lut.	980 208 240	400 600	900 500 760	260 580	580	310		490	1750 260	1450 112 580 620
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.		1	2	1				3	25	2
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ			1	75	55	70	90 40	180		
Ulmus amer						520	210	1		
U. fulva										
SAPLING DISTANCE	19 31 17 36 43 22 18 17 27 35 27 38 25 ∞ 29 44 19 20 32 47	37 53 14 5 54 21 46 40 30 28 27 40 90 ∞ ∞ 32 24 25 64 30 ∞								
TREE Distance	15.5 31 13 12 17 18 3 20 17 19 34 14.5 3 11 38 17 10 19 46 9.5	20 23 11.5 24 30 25 24 20 18 28 26 27 5 35 39 20 18 43 20 6.5								

40
STEPS

SHRUB

10/15

8/16

4

5/8

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 2

STATION NO.	11	12	13	14	15	16	17	18	19	20	
Abies balsam	40 50		17 22 45	4 80	4 85	2 80	2 55 45	1 75	3 25	7 35	2
Acer rubrum		220 240									
A. sacchar.											
A. spicatum											
Betula lut.	940 25	500 370	220	270	580 420	120	440 200	150	60 190	1250 75	1
B. papyrif											1
Carpinus car											
Fagus gran											
Ostrya virg											
Picea glau											
Pinus Bank											
P. resinosa											
P. Strobus											
Populus bals											
P. grand											
P. trem											
Prunus pen.		2			14	1	1		1	3	28
Quercus ell											
Q. rubra											
Tilia amer											
Tsuga can											
Thuja occ						270		3 140 30		130	1
Ulmus amer											
U. fulva											
50p DIST	25, 35 21, 50	50, 40 28, 27	11, 5 35, 18	13, 20 19, 24	44, 75 35*	19, 21 30, 25	38, 28 70, 28	39, 40 75, 55	71, 70 40, 24	70, 310 38, 38	
Distance	11, 11 9, 17	18, 20 22, 37	15, 21 15, 25	3, 13 14, 40	15, 16 32, 30	20, 19 21, 34	22, 21 26, 40	9, 11 16, 17	30, 21 20, 20	8, 10 14, 18	

9/16
1/2

10/16

2/2

3/4

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 2

STATION NO.	21	22	23	24	25	26	27	28	29	30
Abies balsam	25	2 40	25 25	2 65		65 60	1			
Acer rubrum										
A. sacchar.		400 50 220	280 960			130				
A. spicatum										
Betula lut.	430			130 130			1			
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.		3		40 2 75	25 30 13 20	4	15 2			
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ	190 25	2								
Ulmus amer										
U. fulva										
Sampling Dist	19, 16 9, 13	22, 34 45, 170	18, 120 27, 170	30, 70 50 *	14, 12 35, 65	46, 60 37, 44				
Distance	7, 24 22, 19	48, 20 15, 14	26, 24 20, 24	45, 40 75, 50	17, 35 35, 65	40 30 22 35	45			

5/7

3/6

2/2

3/7

1/2

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 rubes.			2	
Sorbus americana			1	
Taxus canadensis	160	100	1	100
Thuja occident.			1	
Tsuga canadensis			1	
Vaccinium angust.			2	
V. myrtilloides			2	
TOTAL				

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

Ave distance ^{set.} 7' Meanarea _____ Browse per acre 10,890

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 2
Quadrat No. 1-10

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
 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
 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
 Linnaea borealis
 Lonicera oblongifolia
 Lupinus perennis
 Lycopodium annotinum
 Lycopodium complanatum
 7 Lycopodium lucidulum
 Lycopodium obscurum
 Lysimachia quadrifolia
 Maianthemum canadense
 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

9,7,5,3,1

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
 Viola cucullata
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 2
Quadrat No. 11-20

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
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 19, 17, 15, 13, 11	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
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 2
Quadrat No. 21-30

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.	25 Ribes americanum 5
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	25 Impatiens biflora 5	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	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 10	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	2573, 21 Taxus canadensis 65
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
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 2

X *Abies balsamea*
 X *Acer rubrum*
 X *Acer saccharum*
 X *Acer spicatum*
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
Tsuga canadensis
Ulmus americana
Ulmus fulva
 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
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
Carex albursina
Carex pensylvanica
Caulophyllum thalictroides
Celastrus scandens
Chimaphila umbellata
Chiogenes hispidula

Circaea alpina
Circaea latifolia
Claytonia caroliniana
Claytonia virginiana
 X *Clintonia borealis*
Convolvulus spithameus
Coptis trifolia
Corallorrhiza maculata
Corallorrhiza striata
Cornus alternifolia
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
 X *Dryopteris spinulosa*
Epifagus virginiana
Epigaea repens
Equisetum arvense
Erythronium americanum
Fragaria virginiana
Galium aparine
Galium boreale
Galium circaezans
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
Impatiens biflora
Lactuca canadensis
Laportea canadensis
Lappula virginica
Lathyrus ochroleucus
Ledum groenlandicum
Linnaea borealis
Lonicera canadensis
Lonicera hirsuta
Lonicera oblongifolia
Lonicera prolifera
Luzula multiflora
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
 X *Lycopodium lucidulum*
Lycopodium obscurum
Lycopodium tristachyum
Lycopus americanus
Lycopus uniflora
Lysimachia quadrifolia
Maianthemum canadense

Data Form No. 17 (P.2)

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
Rubus - raspberry
Sambucus canadensis
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
XTaxus canadensis
Thalictrum dioicum
Tiarella cordifolia
XTrientalis borealis
Trillium cernuum
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viburnum affine
Viburnum lentago
Viola canadensis
Viola cucullata
XViola incognita
Viola pallens
Viola pubescens
Vitis aestivalis
Vitis riparia
Waldsteinia fragarioides
Zanthoxylum americanum

Additional Species: