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Site 3198: Cat Island #4, Ashland County. 1959-07-25

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3198

Name: Cat Island #4
 County: Ashland
 Date: July 25, 1959
 Size of Stand: ?
 Forest Type: Abies Thuja
 Topography: Flat

Locality:
 T: R: Sec:

Observers:

Size of Area Sampled: 20 Acres
 Soil Type:
 Slope: Directions

Condition of Stand: No recent cutting. Deer damage generally light

Open Grown Trees:

% Canopy:

Light 30-40
 40-50

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

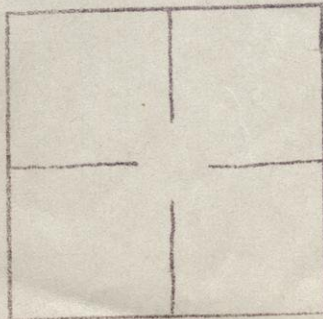
CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1"	
A ₁	1/2"-1"	Dark Brown Sand
A ₂	2"	Light grey sand w/ pinkish tinge - sandy clay
B	3"-6"	Brown Sandy clay

Parent Material:

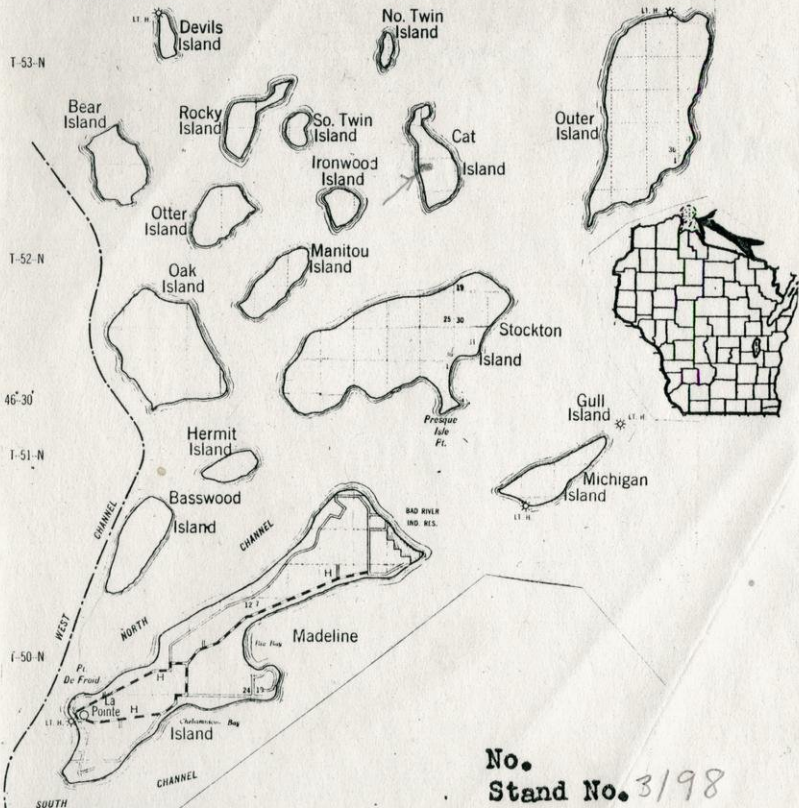
Total Profile 6" to + 12"

Map:



Northern WISCONSIN ASHLAND County

APOSTLE ISLANDS in LAKE SUPERIOR



No.
Stand No. 3198
Date:

Collected by

Grant Cottam
Richard J. Vogl

Northern Pine-Hardwoods

Station Number: 3198

101 160 105 52 3 13.645/60

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	44	31	13		3159	40	25.0			24.8	27.5	23.2	75.5	
Acer rubru	1	1		1		130					1.0	.6	1.0	2.6	
A. sacchar	10	11	2	9		1470	1	.6			9.9	6.9	10.8	27.6	
A. spicatu															
Betula lut	21	32	11	18	3	5085	21	13.1			20.8	20.0	37.3	78.1	
B. papyrif	11	13	9	4		1110					10.9	8.1	8.1	27.1	
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	3	4	3	1		332					3.0	2.5	2.4	7.9	
Tilia amer															
Tsuga cana															
Thuja occi	29	54	44	5		2274	97	60.6			28.7	33.8	16.7	79.2	
Ulmus amer															
U. fulva															
PYRUS AMERICANA	1	1		1		85	1	.6			1.0	.6	.6	2.2	
								99.9			100.1	100.0	100.1	300.2	

AVE. DIST. BTW'N TREES: 12.2

ave. Sap. Dist. 12.6

AVE B. A.:

85.3

TREES/ACRE:

292.7

274.4

DOM./ACRE:

24967.3

173.4

POINT RECORD TREES APOSTLE ISLANDS

3198

Point Number	1	2	3	4	5	6	7	8	9	0
<i>Abies balsamea</i>	110	1	170 75		50 100	55	130 90 40 90	40 40 73	45	60
<i>Acer rubrum</i>										
<i>Acer saccharum</i>						95				210
<i>Betula lutea</i>	28 20 2	70 2	40 2	40 13 3	21 110 1				170 200	
<i>Betula papyrifera</i>	45			80 45						
<i>Quercus rubra</i>						170				
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>		45 30 1	70 2			28 4		70 4	45 3	45 40 3
<i>Pyrus Americana</i>		85								
Tree distance	8- 15- 13 23	14 10- 16 10	12 22 10 14	16- 8- 14 9-	11- 10 14 18	7 20 11- 12	10- 23 5 7	17 8 3- 6-	12 14 6 2	8 11- 7 3
Sapling distance	18 22 9 34	16 10- 16 15-	10- 18 23 36	11- 7 28 33	5 11- 16 9-	14 17 15 9-	17 25- 29 28	21 18 8 12-	5- 7 6 25-	8 10- 5 22

8/15

2/2

6/10

2/3

4

6/8

4

POINT RECORD TREES APOSTLE ISLANDS

3198

Point Number	1	2	3	4	5	6	7	8	9	20
<i>Abies balsamea</i>	50		65 85	70 120 32 2	1	70 2 2	70 28 18	27 1	50 55	1
<i>Acer rubrum</i>										
<i>Acer saccharum</i>		85							45	180
<i>Betula lutea</i>	310					160 175		470		
<i>Betula papyrifera</i>			12		20 18				250	130
<i>Quercus rubra</i>							70	60 32		
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>	110 110 14	18 17 30 14	16 4	12 2	27 45 3	50				20 30 3
Tree distance	8- 8 8 13	23 9 8 5-	23 8- 8- 8-	13 14 7 15	14 16 21 14	18 19 13 2	10- 17- 16 8	17 21- 4 5-	14 18 8 2-	15 21 10- 10
Sapling distance	6 12- 9 7	5- 5- 11- 20	1- 13 6 3-	15 7 17- 23	6 4- 7 7	5- 8 17 19-	3- 6 12 11	5- 10 13- 9-	7 13 20 31	5 10 8 9-

1/13

3/3

3/4

4/5

2/3

1/12

POINT RECORD TREES APOSTLE ISLANDS

3198

Point Number	21	22	23	24	25	26	27	28	29	30
<i>Abies balsamea</i>	35 70 50	V	40 3	3		1	1	80		30 1
<i>Acer rubrum</i>										
<i>Acer saccharum</i>	120 V	165	V					130 80		
<i>Betula lutea</i>				90 260	220	30	260 120	340		230
<i>Betula papyrifera</i>	2		65	1		230	45		80	
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>		45 70 35	21 45	45 35	25 14 20	100 16	35		55 35 45	17 12
PYRUS AMERICANA	2	1		4	3	3	3	4	3	3
						1				
Tree distance	14 16 8.5 6	16 10.5 10 7	12.5 17 18 6	14 19.5 12 16	13 9.5 8.5 10	10.5 8 7 4	21 9.5 5 3.5	18 8.5 11 12.5	12.5 15 13.5 21	14 15 15 12
Sapling distance	12 14.5 13 10.5	4 3 22 24	15 15 4 9	22 16 9 21	12.5 4 7 6	8 7 21 27	8.5 5 5.5 13.5	4 7 10 9.5	8 12 16 9	7 8 7 11.5

 $\frac{4}{6}$ $\frac{3}{4}$ $\frac{6}{8}$ $\frac{4}{4}$ $\frac{8}{18}$

POINT RECORD TREES APOSTLE ISLANDS

3198

Point Number	31	32	33	34	35	36	37	38	39	40	
<i>Abies balsamea</i>		29	110	22	35 180	220 100	185 75	✓			6 10
<i>Acer rubrum</i>		4	1	40 12	2	1	2		2	130	1 1
<i>Acer saccharum</i>	180	180									2 2
<i>Betula lutea</i>	180 300	110		420	280 22	250 29			110 17		6 10
<i>Betula papyrifera</i>			90			1	2	1	2	2	1 1
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>	16 ✓	29	80 15	35			35 220	21 22 40 45	20 ✓ 20	95 35 18	8 16
	4		3	2	1	1	1	2		4	
Tree distance	26 11 14 3	9.5 11 14 4	15 18 3.5 5	12 20 9 7	18 14 11.5 5	18 25 20 17	24 11.5 6 25	16 3 5 5	27 6 7 3.5	10.5 10.5 18 4.5	
Sapling distance	4 6 4 10	3 6 7 20	9.5 20 16 18	7 6 10.5 13.5	25 13.5 4.5 12	6.5 5.5 7 15	16 27 4 44	19 17 10.5 11	16 10.5 7 8.5	10.5 22 20 26	

STAND # 3198

SPECIES	T	H	M	L	O	
TO						43
TAX						83
AB						10
AS						10
CC			1			13
BL					1	1
	10		18	66	66	

STAND # 3198

BROWSE CONDITION BY SPECIES

SPECIES	T	H	M	L	O	TOTAL
TO				37.2	62.8	100.0
TAX		7.2	16.9	43.4	32.5	100.0
AB				40.0	60.0	100.0
AS			30.0	50.0	20.0	100.0
CC		30.8	7.7	38.5	23.1	100.1
BL					100.0	100.0

% EACH SPECIES CONTRIBUTES TO EACH BROWSE SPECIES

	TO	TAX	AB	AS	CC	BL	TOTAL
T		60.0			40.0		100.0
H		77.8		16.7	5.6		100.1
M	24.2	54.5	6.1	7.6	7.6		100.0
L	40.9	40.9	9.1	3.0	4.5	1.5	99.9
O							

% EACH CATEGORY CONTRIBUTES TO EACH BROWSE = CATEGORY TOTAL / 160

T	H	M	L	O	TOTAL
	6.2	11.2	41.3	41.3	100.0

TO	TAX	AB	% AS	Browse CC	SPECIES BL	TOTAL
26.9	51.9	6.3	6.3	8.1	.6	100.1

DEER DAMAGE REPORT FORM

Stand No. 3198

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	TAX	3	H	TAX	2	M	TAX	5	H	TAX	11	L
2	TAX	3	M	TAX	2	L	TO	4	O	TAX	6	O
3	TAX	2	M	TO	4	L	TAX	2	H	TAX	5	L
4	CC	2	O	CC	6	L	TAX	5	O	TAX	3	O
5	TAX	1	L	TAX	2	O	TAX	4	L	TAX	3	O
6	TAX	1	L	TAX	3	L	TAX	2	O	TAX	1	O
7	TO	1	O	TAX	1/2	M	TAX	3	M	TAX	2	M
8	TO	3	O	TAX	4	O	TAX	2	L	AS	3	L
9	TAX	2	O	TAX	3	O	TAX	1	L	TAX	3	L
10	TAX	1/2	L	TAX	3	O	TAX	5	H	TO	3	O
11	TO	3	L	TO	5	L	TO	3	L	AS	5	M
12	TO	1	O	TO	5	O	TO	3	O	TO	5	O
13	TO	1	L	TO	2	L	TO	3	O	TO	3	O
14	TAX	1/2	O	TAX	1/2	O	AS	3	L	TAX	2	O
15	TAX	3	L	TAX	2	O	TAX	3	O	TAX	2	L
16	TO	3	O	TAX	1	O	TO	2	L	TO	2	O
17	AS	4	L	TO	3	O	TAX	3	M	TAX	7	L
18	TAX	1/2	L	TO	1/2	O	AS	3	M	TAX	4	L
19	TAX	3	M	TAX	3	L	AS	2	M	TAX	3	M
20	TAX	3	L	TO	1	O	TAX	4	L	TAX	3	L
21	AB	2	O	AB	4.5	O	AB	2	L	AB	5	L
22	TO	3	O	TAX	1.5	L	AB	1	L	AB	3	O
23	AB	4	O	CC	5	H	AB	7	L	CC	6	H
24	TO	1.5	O	TO	2	O	TO	2.5	L	TO	2	O
25	TO	2.5	L	TO	4	O	TAX	1.5	H	TO	4	O
26	TO	1.5	O	TAX	2	M	TO	2	L	AB	4	O
27	TAX	2.5	O	TAX	1	O	TAX	1	L	TAX	3	L
28	CC	6	O	CC	3	L	TAX	5	O	AS	4	L
29	TAX	1	O	TO	3.5	O	TAX	4	L	TAX	2.5	L
30	TAX	1	L	CC	3	M	TAX	4	M	TAX	3.5	M
31	TAX	2	O	TAX	2	O	TO	3	L	TO	3	L
32	TO	4	O	TO	2	L	TO	5	O	TO	4.5	O
33	AS	1.5	L	CC	3	L	TO	2.5	L	CC	4	O
34	AB	1.5	O	TAX	2	O	TAX	1	O	TAX	1.5	L
35	TAX	2	L	TAX	1.5	M	TO	4	L	AS	2	O
36	TAX	2.5	H	TAX	3	L	TAX	1.5	L	TAX	1	L
37	CC	6	H	CC	4	L	TO	3	L	TAX	4.5	M
38	BL	2	O	TAX	2	L	TAX	3	L	TAX	5	L
39	TO	2	O	TAX	4	L	AS	2	O	TAX	5	L
40	CC	3	H	TAX	5	O	TAX	6	O	CC	7	L

BL - BETULA LUTEA

ave. dist. 2.99

Browse per acre 4872.5

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3199
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*
 1 *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

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
 975,31 *Taxus canadensis*
Thalictrum dioicum
 1 *Trientalis borealis*
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

7, 1 *Acer spicatum*

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3198
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>	<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>
<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>	<i>Lycopodium obscurum</i>	<i>Solidago ulmifolia</i>
<i>Coptis trifolia</i>	<i>Lysimachia quadrifolia</i>	<i>Streptopus roseus</i>
<i>Corallorrhiza maculata</i>	<i>Maianthemum canadense</i>	<i>Taxus canadensis</i>
<i>Cornus alternifolia</i>	<i>Mitchella repens</i>	<i>Thalictrum dioicum</i>
<i>Cornus canadensis</i>	<i>Mitella diphylla</i>	<i>Trientalis borealis</i>
<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>	<i>Viola canadensis</i>
<i>Dryopteris phegopteris</i>	<i>Phryma leptostachya</i>	<i>Viola cucullata</i>
<i>Dryopteris spinulosa</i>	<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>

19, 7/5, 11

19, 17/12 or spicata

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3194
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.	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	21 Lycopodium lucidulum	Smilax ecirrhata
27, 21 Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	23 Streptopus roseus
Corallorrhiza maculata	23 Maianthemum canadense	29, 27, 25 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

29, ACER SPIC.

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No.
Quadrat No.

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

2039, 37 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

539 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

10 Lycopodium lucidulum

5 Lycopodium obscurum

Lysimachia quadrifolia

5 Maianthemum canadense 39, 35, 33, 31

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

5 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

39, 37, 35, 33 ACER SPIC
45

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO.

X *Abies balsamea*
 X *Acer rubrum*
 X *Acer saccharum*
 X *Acer spicatum*
Amelanchier sp.
 X *Betula lutea*
 X *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
 X *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
 X *Pyrus americana*

HERBS AND SHRUBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Agrimonia grypsosepala
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 pennsylvanica
Caulophyllum thalictroides
Celastrus scandens
Chimaphila umbellata
Chiogenes hispida

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
 X *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
 X *Dryopteris linneana* *disjuncta*
 X *Dryopteris phegopteris*
 X *Dryopteris spinulosa*
Epifagus virginiana
Epigaea repens
Equisetum arvense
Erythronium americanum
Fragaria virginiana
Galium aparine
Galium boreale
Galium circaeazans
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
 X *Lycopodium annotinum*
Lycopodium clavatum
Lycopodium complanatum
 X *Lycopodium lucidulum*
 X *Lycopodium obscurum*
Lycopodium tristachyum
Lycopus americanus
Lycopus uniflora
Lysimachia quadrifolia
 X *Maianthemum canadense*
 X *Unknown* 3197

Melampyrum lineare
 Mitchella repens
 Mitella diphylla
 Mitella nuda
 Monarda fistulosa
 Moneses uniflora
 Monotropa uniflora
 Myrica asplenifolia
 Onoclea sensibilis
 Oryzopsis asperifolia
 Osmorhiza claytoni
 X 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
 X Streptopus roseus
 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: