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Site 3196: Cat Island #2, Ashland County. 1956-07-24

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3196

#2
 Name: Cat Island, South end Locality: SOUTH WEST END
 County: Ashland T: R: Sec:
 Date: July 24, 1954 Observers: COTTAM & VOGL
 Size of Stand Size of Area Sampled: $\frac{1}{4}$ SQUARE MILE
 Forest Type: ABIES MIXED Soil Type:
 Topography: LEVEL Slope: Directions

Condition of Stand: HAD BEEN CUT, OLD STUMPS PRESENT

Open Crown Trees:

Stumps:

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

% Canopy: 93
 Light 75 (40) 75

Soil Data:

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

DEPTH

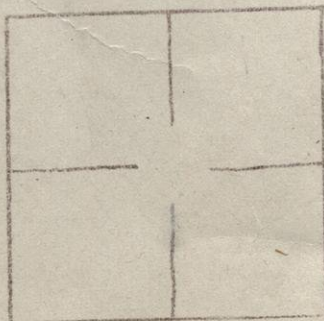
CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	2	
A ₁	1/2	Black silt - & sand
A ₂	1-3	Sandy, light brown to medium brown
B	4	Reddish brown sand w/ pebbles

Total Profile more than 14" in place - only 8" in others

Parent Material:

Map:



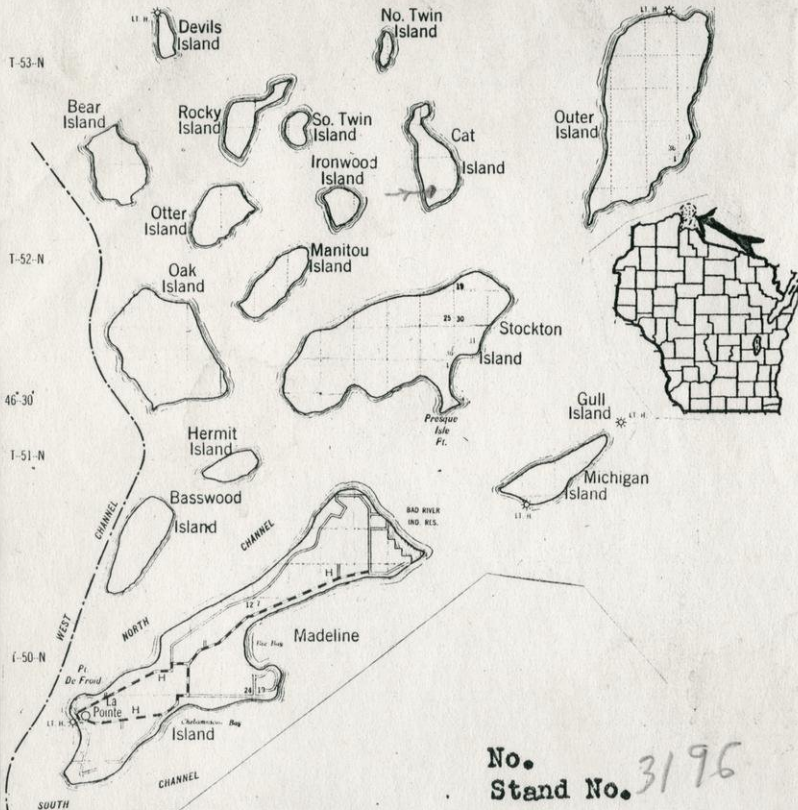
R-3-W

R-2-W

R-1-W

Northern WISCONSIN ASHLAND County

APOSTLE ISLANDS in LAKE SUPERIOR



No.
Stand No. 3196
Date:

Collected by

Grant Cottam
Richard J. Vogl

Northern Pine-Hardwoods

115 159 116 41 2 11,503,160

Station Number: 3196

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	28	44	37	7	-	2024	68	42.5			24.3	27.7	17.6	69.6	
Acer rubru	4	4	3	1	-	265	1	.6			3.5	2.5	2.3	8.3	
A. sacchar	13	18	10	8	-	1690	20	12.5			11.3	11.3	14.7	37.3	
A. spicatu															
Betula lut	26	36	20	14	2	4610	12	7.5			22.4	22.4	40.1	85.3	
B. papyrif	6	8	6	2	-	444	6	3.8			5.2	5.0	3.9	14.1	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo	1	1	1	-	-	80					.9	.6	.7	2.2	
Prunus pen	8	8	8	-	-	186	5	3.1			7.0	5.0	1.6	13.6	
Quercus el															
Q. rubra	1	1	-	1	-	85					.9	.6	.7	2.2	
Tilia amer	1	1	-	1	-	85					.9	.6	.7	2.2	
Tsuga cana	1	1	-	1	-	280					.9	.6	2.4	3.9	
Thuja occi	24	35	29	6	-	1686	47	29.4			20.9	22.0	14.7	57.6	
Ulmus amer															
U. fulva															
PRUNUS AM.	2	2	2	-	-	68	1	.6			1.7	1.3	.6	3.6	
								100.0			100.1	99.8	100.0	299.9	

AVE. DIST. BTW'N TREES: 14.1

AVE B. A.: 72.3

TREES/ACRE: 219.1

DOM./ACRE:

Ave. Sap. Dist. 13.5

2390

15840.9
110 sq. ft.

POINT RECORD TREES APOSTLE ISLANDS

Point Number	1	2	3	4	5	6	7	8	9	0
<i>Abies balsamea</i>	28 3	150 2	18 2	21 135 1	2	30	24 1	110 85 24 1	13 75	19
<i>Acer rubrum</i>					35 1					65
<i>Acer saccharum</i>	85 75 1	14 2	200	130		30 120 75 12	35 24 120 3			
<i>Betula lutea</i>	290	220	295	28 1	1			20		2
<i>Betula papyrifera</i>					60 22					
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>		55	40		24				23 17	
<i>Prunus pa.</i>			2	2		2		2	1	4
<i>Pyrus Amelac.</i>									30 1	
									13	
Tree distance	11 9 21 11	17 20 21 19	17 18 22 30	17 14 18 34	13 14 8 7	10 20 22 17	21 15 35 4	9 20 21 13	15 14 9 2	13 8 5 5
Sapling distance	21 26 12 8	20 18 28 25	25 6 30 42	11 4 24 11	7 9 7 25	11 14 35 31	11 24 18 35	19 4 12 17	9 6 14 19	4 6 4 2

9/13

2 1/2

6 1/11

5/5

1/2

4/5

1/1

1/1

POINT RECORD TREES APOSTLE ISLANDS

3196

Point Number	1	2	3	4	5	6	7	8	9	20
<i>Abies balsamea</i>	100	45 90 1	45 100	22 18 2	90 17	70 4	30 4		24 1	32 4
<i>Acer rubrum</i>										
<i>Acer saccharum</i>			120	170						
<i>Betula lutea</i>	75				15 1	180	140 17	14 2	370	13 14
<i>Betula papyrifera</i>					2			27 28 1		
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>	35 30 4	25 20 3	19 15 28 4	13 2		120 65			27 65 3	✓
<i>Tilia americana</i>			85							
<i>Pyrus Am</i>							55			
<i>Prunus Pa</i>					17 1					28
<i>Pop Trem</i>								80		
Tree distance	8- 14 5 4	18 22 10 21	10- 24 17 11	10- 11 27 4	17- 14 5 7	8 12.5 20 19	11- 11 22 7	9- 15 7 7	9 22 16 7	11- 13 5 6
Sapling distance	3 9 19 9	8- 5 6 9	5 3 14 21	1/2 1 5 9	9 12 16 8	10- 22 6 13	6 7 10 10	13 15 9 4	2- 3 6 22	10- 10 8 13

8/11

1/1

7/9

1/2

6/12

1/1

1/1

2/2

1/1

POINT RECORD TREES APOSTLE ISLANDS

3190

Point Number	21	22	23	24	25	26	27	28	29	30
Abies balsamea	30 135	18	19 19 25	29 18			25	28 30		19
	4	1	50	4	2	2	1	1	1	2
Acer rubrum										
Acer saccharum							75 ✓			
							1			
Betula lutea		40 120		32	20 70 28 35	45 45		85	120 210	35
		1			1					2
Betula papyrifera							80			
		1								
Quercus rubra										
Tsuga canadensis										
Thuja occidentalis	30			18		85	45	120	80 12	100 35
				2		2	2	3	2	
PRUNUS PENN	18	20				23				
		1				1				
PYRUS AMER.										
						1				
Tree distance	25 8 5 4	18 13 10.5 14	25 32 14 13	14.5 10.5 5 14.5	17 7.5 30 6	17 9 27 34	16 8 12 7	20 14 6 7	13 11.5 16 6	12 10 16 23
Sapling distance	8 16 7 17	3.5 5 11 18.5	9 27 8 13	8 6 10.5 12	14.5 25 12.5 5	7 29 8 10	5 7 2.5 8	9.5 6 8 13	8.5 7 6 9	18 31 18 25

2/3

1/1

7/13

1/1

2/9

3/3

POINT RECORD TREES APOSTLE ISLANDS

3196

Point Number	31	32	33	34	35	36	37	38	39	40	
<i>Abies balsamea</i>					30 35	35	40 70	75 30	✓	✓	4 7
<i>Acer rubrum</i>	1	2	2	1	2	1	4	3			2 2
<i>Acer saccharum</i>				160	30	75			✓	250	5 5
			1	1	2	3			3		
<i>Betula lutea</i>	190 170	20	320	✓		120 300	860	✓	24	30	7 4
<i>Betula papyrifera</i>	120		95	22							3 3
	1	1									
<i>Quercus rubra</i>			85								1 1
<i>Tsuga canadensis</i>	280										1 1
<i>Thuja occidentalis</i>		55 65 18	60	65			60	110	15	90	7 9
	2		1	2					1	1	
PRUNUS PEN.					30			20			2 2
				200							1 1
Tree distance	6 14.5 10 12	7 7 4 5	16 14 14 8	16.5 20 28 5	12 14 16 7	17 26 35 7	10.5 11.5 11.5 30	26.5 20.5 13.5 13.5	13 12 4 7	17 16 18 10	
Sapling distance	7 8.5 17 12.5	3 9 10 27.5	8 23 17 12	12 10.5 16 7	10.5 16.5 17 37	7 8.5 25.5 24	14.5 8.5 14.5 35	12.5 27 31 33	4 9.5 10.5 6	18 33 30 3.1	

STAND #3196

SPECIES	T	H	M	L	O	
TO						4

TAX		 	 	 	 ¹⁶⁹
-----	--	------	---------------	--	--

AS					²⁰
----	--	--	--	--	---------------

AB				/	¹⁰
----	--	--	--	---	---------------

AC					²
----	--	--	--	--	--------------

CO					¹⁴
----	--	--	--	--	---------------

BL					/ ¹
	21		37	60	42

STAND # 3196

BROWSE CONDITION BY SPECIES %

	T	H	M	L	O	TOTAL
TO					100.0	100.0
TAX		11.9	24.8	45.0	18.3	100.0
AS		10.0	35.0	35.0	20.0	100.0
AB				10.0	90.0	100.0
AC					100.0	100.0
CC		42.9	21.4	21.4	14.3	100.0
BL					100.0	100.0

% EACH SPECIES CONTRIBUTES TO EACH BROWSE CATEGORY

	TO	TAX	AS	AB	AC	CC	BL	TOTAL
T								
H		61.9	9.5			28.6		100.0
M		72.0	18.9			8.1		100.0
L		81.7	11.7	1.7		5.0		100.1
O	9.5	47.6	9.5	21.4	4.8	4.8	2.4	100.0

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

	T	H	M	L	O	TOTAL
		13.1	23.1	37.5	26.3	100.0

% BROWSE SPECIES

	TO	TAX	AS	AB	AC	CC	BL	TOTAL
	2.5	68.1	12.5	6.3	1.3	8.8	16	100.1

DEER DAMAGE REPORT FORM

Stand No. 3196

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	TAX	7	L	TAX	5	M	RS	6	M	RS	6	H
2	CC	3	O	TAX	2	O	TAX	5	L	CC	7	H
3	CC	3	H	TAX	2	M	CC	7	H	TAX	6	M
4	TAX	3	L	TAX	3	M	CC	4	M	TAX	6	M
5	TAX	5	L	TAX	3	M	TAX	5	M	AB	9	O
6	CC	1/2	M	CC	1/2	H	CC	2	M	CC	2	L
7	TAX	5	M	CC	4	L	CC	5	H	CC	5	H
8	TAX	5	L	AB	7	L	TAX	6	M	TAX	7	H
9	TAX	1	M	TAX	1/2	L	TAX	2	L	TAX	4	M
10	TAX	6	L	AS	9	H	TAX	9	H	TAX	16	O
11	TAX	3	O	TAX	2	O	TAX	7	O	TAX	5	O
12	TO	2	O	TO	5	O	TAX	8	M	BL	8	O
13	TAX	1	L	TAX	2	L	TAX	4	L	TAX	2	O
14	TAX	1/2	M	TAX	2	L	TAX	7	L	TAX	6	O
15	TAX	3	L	TAX	4	L	TAX	4	L	TAX	6	M
16	AS	6	O	TAX	4	L	TAX	5	M	TAX	5	M
17	TAX	1/2	L	TAX	1	L	TAX	2	L	TAX	2	L
18	AS	9	L	TAX	10	L	TAX	9	L	TAX	11	L
19	TAX	3	L	TO	1	O	TAX	4	O	TAX	6	M
20	TAX	1/2	L	TAX	6	O	TAX	4	L	CC	6	O
21	TAX	2	M	TAX	3.5	H	TAX	1.5	H	TAX	3	L
22	TAX	1.5	O	TAX	4	M	TAX	2.5	L	TAX	3	O
23	AS	4	O	TAX	8	M	TAX	2	M	AS	5	O
24	TAX	2	O	TAX	6	L	TAX	3	O	TAX	7	O
25	TAX	1	H	TAX	2	H	TAX	1.5	M	TAX	4	L
26	TAX	4	L	TAX	2	L	TAX	4	L	TAX	2	L
27	TAX	2.5	L	TAX	4	L	AS	3	L	AB	6	O
28	TAX	1	L	TAX	4	L	TAX	1.5	L	TAX	3	L
29	TO	4	O	TAX	4	O	TAX	4	L	AS	5.5	L
30	AS	3	O	AS	4	L	TAX	1.5	L	TAX	3	O
31	TAX	3.5	O	TAX	2	O	TAX	5	O	TAX	6	L
32	AS	5	M	TAX	6	L	AS	6	M	AS	6	L
33	AS	2	M	TAX	2	M	TAX	3	H	TAX	3.5	L
34	TAX	2	H	TAX	3	H	TAX	5	M	TAX	5	H
35	AS	5	M	AS	5.5	M	AS	7	L	AS	7	L
36	CC	5	L	AC	6	O	TAX	6	M	AB	13	O
37	AB	5	O	TAX	5	M	AB	5	O	TAX	3	H
38	AB	5	O	TAX	5	L	TAX	5.5	L	TAX	3	L
39	AB	2	O	AB	5	O	AC	5	O	AB	9.5	O
40	TAX	1	H	TAX	3	M	TAX	1	H	AS	5.5	M

BL - Betula lutea
AC - ACER SAC.

Ave. dist. 4.28
Browse per acre 2,379.03

WOODS MORE OPEN

"

"

"

"

"

NO TAXUS

6857

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3196
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
 3 *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
 3 *Lycopodium lucidulum*
 9, 5 *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
 9, 7, 51 *Taxus canadensis*
Thalictrum dioicum
Trientalis borealis
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
 5 *Viola canadensis micropetala*
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

7, 5, 31 *Aster spic*

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3196
Quadrat No. 11-20

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
 13 *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
Lycopodium lucidulum
 15 *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
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

19 15 13 *Acer spicatum*

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3196
Quadrat No. 20-30

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	23 Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
23 Carex albursina ^{SP}	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	29 Lycopodium annotinum	Smilacina racemosa
23 Circaea alpina	23 Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	27 Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	29, 27, 25, 23, 21 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	23 Viola cucullata ^{11 COG.}
23 Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

27, 25 Acta SPIC

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3196
Quadrat No. 30-40

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	35, 33 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) 5
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
33 Carex albursina SP 10	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	37 Lycopodium annotinum 10	Smilacina racemosa
Circaea alpina 5	Lycopodium CLAVATUM 5	Smilacina stellata
Circaea latifolia	35 Lycopodium lucidulum 10	Smilax ecirrhata
Clintonia borealis	39, 37, 35 Lycopodium obscurum 35	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	37, 31 Taxus canadensis 80
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 5	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	35 Viola cucullata INCOGNITA 15
33 Dryopteris spinulosa 15	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

33, 31 ACER SPICI 55
35 UNKNOWN IN THE BAG 5

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3196

X *Abies balsamea*
 X *Acer rubrum*
 X *Acer saccharum*
 X *Acer spicatum*
 X *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
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
Thuja occidentalis
 X *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
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

X *Circaea alpina*
Circaea latifolia
Claytonia caroliniana
Claytonia virginiana
Clintonia borealis
Convolvulus spithameus
Coptis trifolia
Corallorrhiza maculata
Corallorrhiza striata
Cornus alternifolia
 X *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
Dryopteris linneana
 X *Dryopteris phegopteris*
 X *Dryopteris spinulosa*
Epifagus virginiana
Epigaea repens
Equisetum arvense
Erythronium americanum
Fragaria virginiana
Galium aparine
Galium boreale
Galium circaeans
Galium concinnum

Galium lanceolatum
 X *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*
 X *Lycopodium clavatum*
Lycopodium complanatum
 X *Lycopodium lucidulum*
 X *Lycopodium obscurum*
Lycopodium tristachyum
Lycopus americanus
Lycopus uniflora
Lysimachia quadrifolia
 X *Maianthemum canadense*

Data Form No. 17 (P.2)

Melampyrum lineare
 Mitchellia repens
 Mitella diphylla
 Mitella nuda
 Monarda fistulosa
 Moneses uniflora
 Monotropa uniflora
 Myrica asplenifolia
 X 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
 X 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
 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
 Viola incognita
 Viola pallens
 Viola pubescens
 Vitis aestivalis
 Vitis riparia
 Waldsteinia fragarioides
 Zanthoxylum americanum

Additional Species:

X Cornus sp