



LIBRARIES

UNIVERSITY OF WISCONSIN-MADISON

Site 3195: Cat Island #1, Ashland County. 1956-07-23

[s.l.]: [s.n.], 1956-07-23

<https://digital.library.wisc.edu/1711.dl/VSJF47MYRP64G80>

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.

STAND RECORD

FORESTS

Stand No. 3195 ✓

Name: CAT ISLAND #1

Locality: NORTH WEST (JUST BELOW NARROWS)

County: ASHLAND

T:

R:

Sec:

Date: 7-23-56

Observers: COTTAM & VOGL

Size of Stand 2

Size of Area Sampled: 1/4 MILE X 200'

Forest Type: THUJA O. & BETULA LUTEA

Soil Type:

Topography: LEVEL TO GENTLE SLOPE

Slope:

Directions

Condition of Stand: TAXUS WAS HEAVY IN MOST PLACES, WITH OCCASIONAL OPEN PATCHES. ISLAND HAD BEEN CUT, BUT AREA SAMPLE WAS CLOSE TO SHORE & MAY HAVE NEVER BEEN CUT. IN SOME PLACES THERE WAS AN ABUNDANCE OF LARGE ACER SACCHARUM.

Open Crown Trees:

% Canopy: 40 - 35

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

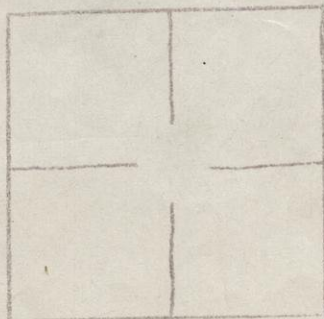
CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1"								
A ₁	1"								
A ₂	2"								
B									

Parent Materials:

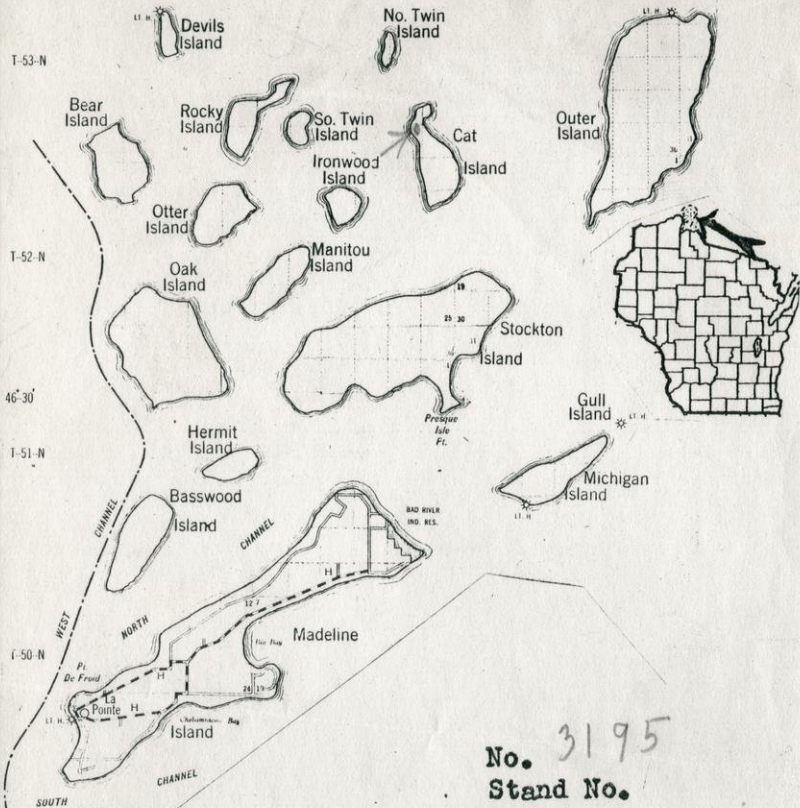
SOIL PROFILE - MORE THAN 1'

Map:



Northern WISCONSIN
ASHLAND County

APOSTLE ISLANDS in
LAKE SUPERIOR



No. 3195
Stand No.
Date:

Collected by

Grant Cottam
Richard J. Vogl

Northern Pine-Hardwoods

102 166 86 67 7 257 160

Station Number: 3195

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	35	28	7		1894	67	41.9			23.5	21.9	10.2	55.6	
Acer rubru															
A. sacchar	12	23	3	19	1	4,480	2	1.2			11.8	14.4	24.1	50.3	
A. spicatu															
Betula lut	29	40	8	26	6	8,045	4	2.5			28.4	25.0	43.3	96.7	
B. papyrif	6	7	1	6		1,020					5.9	4.4	5.5	15.8	
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			14	5	3.1			1.0	.6	.1	1.7	
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi	29	53	44	9	307	3,074	82	51.3			28.4	33.1	16.6	78.1	
Ulmus amer															
U. fulva															
XYRUS AMER.	1	1	1			45					1.0	.6	.2	1.8	
								100.0			100.0	100.0	100.0	300.0	

AVE. DIST. BTW'N TREES: 14.6
Ave. Sap Dist. 19.5

AVE B. A.: 116.1

TREES/ACRE: 204.4
114.6

DOM./ACRE: 23730.8
164.8

BROWSE CONDITION BY SPECIES %

SPECIES	T	H	M	L	O	TOTAL
TO				20.0	80.0	100.0
TAX		2.5	22.9	44.1	30.5	100.0
AS		13.6	22.7	40.9	22.7	99.9
AB					100.0	100.0
AC				100.0		100.0
CC					100.0	100.0

% EACH SPECIES CONTRIBUTES TO EACH BROWSE CATEGORY

	TO	TAX	AS	AB	AC	CC	TOTAL
T							
H		50.0	50.0				100.0
M		84.4	15.6				100.0
L	4.6	80.00	13.8		1.5		99.9
O	21.1	63.2	8.8	5.3		1.8	100.2

% EACH CATEGORY CONTRIBUTES TO TOTAL BROWSE - CATEGORY/100

T	H	M	L	O	TOTAL
	3.8	20.0	40.6	35.6	100.0

TO	TAX	% BROWSE AS	% BROWSE AB	% BROWSE AC	% BROWSE CC	TOTAL
9.4	73.8	13.8	1.9	.6	.6	100.1

STAND # 3195

SPECIES TO	T	H	M	L	O	
						15
TAX						118
AS						22
OC						
AB						3
AC						1
		6	32	65	57	

DEER DAMAGE REPORT FORM

Stand No. 3195

77.5

113.5

143.0

192.5

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

526.5

Are. Dist. - 3.3

Browse per acre 4,025.9

POINT RECORD TREES APOSTLE ISLANDS

3195

Point Number	31	32	33	34	35	36	37	38	39	40	
<i>Abies balsamea</i>	45 12 2	23 1	23 45 3	110 35 3	17 55 3	14 1	1		45 19	3	6 11
<i>Acer rubrum</i>											
<i>Acer saccharum</i>									180	50	2 12
<i>Betula lutea</i>	290		30	640 300 1	600 1		290 65 2	110 380	280	130	8 11
<i>Betula papyrifera</i>		95									1 11
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>	120 2	70 70 20 12	50 1		65	80 70 24 1	45 30 3	22 35 4		75 40 4	8 15
<i>Prunus Pa</i>		1									
Tree distance	11- 8- 12- 33	9 14 14 21	12 8 10 7	12 15 16 23	13 13 14- 17	17 21 2- 5	36 27 14 10	12- 8 8 7-	18 13 8 19	13 11 5 10	
Sapling distance	8- 9- 14- 12	27 7- 17 16	16- 17 24 19-	10- 30 36 28	4 14 13 19	13 22 6- 15-	18 24 55 28	16 4- 8 9-	17 7- 8 6	15 11- 45 20	

POINT RECORD TREES APOSTLE ISLANDS

3195

Point Number	1	2	3	4	5	6	7	8	9	0
<i>Abies balsamea</i>	12		150 42			60		200		125
	2				1	1				2
<i>Acer rubrum</i>										
<i>Acer saccharum</i>	160									
<i>Betula lutea</i>	95	720	190	100 210	255 55 190	180 85	165 180	120	30	480
<i>Betula papyrifera</i>					175					
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>	140	14 15	27	70 20	95	65	18 23	18 35	55 23 30	60 200
	2	4	4	4	3	3	4	4	4	2
PYRUS AMERICANA		45								
Tree distance	7 11.5 33 13	6 6 12.5 19	27 20 16 7	25 15 21 27	23 13 21 22	12 16 8 17	5.5 21 14 10	19 10 6 5	29 9 7 3	12 18 20 9.5
Sapling distance	29 25 31 30	6 4 8 6	9 11.5 24 17	12 8.5 14.5 48	39 24 29 37	18 9 16 6	7 4 3 12	15 13 26 29	3 3 6 19	31 7 40 22

5/6

1/1

10/15

10/17

1/1

POINT RECORD TREES APOSTLE ISLANDS

3195

Point Number	1	2	3	4	5	6	7	8	9	20
<i>Abies balsamea</i>	80 85	22	110	230			45 15	35		17
<i>Acer rubrum</i>	1	1	1	2	2	1		1	2	4
<i>Acer saccharum</i>								90	250 150 150 240	190 270
<i>Betula lutea</i>	20	180		85 120	23 100			240 370		
<i>Betula papyrifera</i>										
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>	13 3	130 13 3	24 35 60 3	80 2	13 35 2	65 70 190 75	40 85 4		3	95 2
Tree distance	25 9 11 6	12 13 10 3	10 9 4 4.5	11 20 3 5	12 19 11 7	20 23 8 8.5	22 13 4 5	26 33 34 3	16 15 12.5 17	25 12 10 4
Sapling distance	21 31 27 27	9 25 40 5	16 52 13 30	18 18 19 26	5 17 18 25	5 18 24 33	3 23 7 18	13 12 28 15	6 15 28 33.5	9.5 9.5 30 17

7/9

3/7

5/8

8/16

POINT RECORD TREES APOSTLE ISLANDS

3195

Point Number	21	22	23	24	25	26	27	28	29	30	
<i>Abies balsamea</i>			24 34	60	28 13			30	19	15 27	6/9
<i>Acer rubrum</i>			2	3	1		2	2	4	3	4
<i>Acer saccharum</i>	70 220 230	240 300		160 150 310		280 170		210 80	330		6/13
<i>Betula lutea</i>		280	22			110	170	30	85		6/6
<i>Betula papyrifera</i>		160	160		45	160				150 760	5/6
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>	70						73 65 19		150		3/5
<i>Prunus Pa</i>					14		2				1/1
Tree distance	40 29 14 6	14 4 35 22	13 14 34 9	6 29 11 21	6 29 11 13	11 15 29 5	4 14 27 22	10 17 20 22	10 10 9 22	15 25 10 6	
Sapling distance	14 13 9 19	8 14 45 30	6 11 13 17	7 15 31 55	9 15 58 45	16 21 11 85	22 19 55 44	17 6 35 50	18 5 32 22	3 87 12 14	

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3195
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
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	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

9, 7, 5, 3, 1

IN COGNATA

3, 1, ACER SPIC.

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3195
Quadrat No. 10-20

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	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

15, 13, 11 ACEA SPICATUM

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3195
Quadrat No. 21-50

<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>

24, 27, 25, 23, 21
29, 27, 23, 21
Aster spicatum

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3195
Quadrat No. 30-40

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 macrophyllum	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
37 Carex albursina ^{sp} 5	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	37 35, 33 Lycopodium lucidulum 15	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis 100
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla 39 37 35, 33, 31	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 caerulea ^{INCOGNITA} 5
37 Dryopteris spinulosa 5	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

37, 31 A. G. SPIC 55

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3195

X Abies balsamea
 Acer rubrum
 X Acer saccharum
 X Acer spicatum
 Amelanchier sp.
 X Betula lutea
 X Betula papyrifera
 Caprinus caroliniana
 Carya cordiformis
 Crataegus 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
 X 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 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
 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 ^{SD}
 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
 X Corylus cornuta
 Cryptotaenia canadensis
 Cyripedium acaule
 Cyripedium 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 circaezans
 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
 Lycopodium clavatum
 Lycopodium complanatum
 X Lycopodium lucidulum
 X Lycopodium obscurum
 Lycopodium tristachyum
 Lycopodium americanus
 Lycopodium uniflora
 Lysimachia quadrifolia
 Maianthemum canadense

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	Streptopus amplexifolius
Moneses uniflora	Ranunculus septentrionalis	Streptopus roseus
Monotropa uniflora	Rhus radicans	XTaxus canadensis
Myrica asplenifolia	Rhus typhina	Thalictrum dioicum
Onoclea sensibilis	Ribes americanum	Tiarella cordifolia
Oryzopsis asperifolia	Ribes cynosbati	XTrientalis borealis
Osmorhiza claytoni	Ribes lacustre	Trillium cernuum
Osmunda cinnamomea	Ribes triste	Trillium grandiflorum
Osmunda claytoniana	Rubus idaeus	Uvularia grandiflora
Oxalis montana	Rubus parviflorus	Uvularia sessilifolia
Panax quinquefolia	Rubus hispidus	Vaccinium angustifolium
Parietaria pennsylvanica	Rubus - blackberry	Vaccinium pennsylvanicum
Parthenocissus vitacea	Rubus - dewberry	Viburnum acerifolium
Pedicularis lanceolata	Rubus - raspberry	Viburnum affine
Phyrma leptostachya	Sambucus canadensis	Viburnum lentago
Podophyllum peltatum	Sambucus pubens	Viola canadensis
Polemonium reptans	Sanguinaria canadensis	Viola cucullata
Polygala pauciflora	Sanicula gregaria	XViola 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
Pteretis nodulosa	Smilacina stellata	Waldsteinia fragarioides
Pteridium aquilinum	Smilax ecirrhata	Zanthoxylum americanum

Additional Species: