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Site 3215: Michigan Island #1, Ashland County. 1956-08-13

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3215 ✓

Name: MICHIGAN ISLAND #1

Locality: SOUTH-CENTRAL

County: ASHLAND

T:

R:

Sec:

Date: 8-13-56

Observers: RICHARD & MIKE VOGL

Size of Stand 2

Size of Area Sampled: 40 ACRES

Forest Type: BETULA Papyrifera-THUJA

Soil Type:

Topography: LEVEL-HIGH GROUND

Slope:

Directions

Condition of Stand: IT HAD BEEN CUT, BUT NOT RECENTLY. MANY OLD
HEMLOCK & OTHER STUMPS PRESENT. FOREST FLOOR WAS ALMOST
COMPLETELY COVERED WITH TAXUS. IN SOME PLACES THERE WERE
SMALL DENSE GROUPS OF ABIES B. OR THUJA OCC.

Open Grown Trees:

Stumps:

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

% Canopy: 60 LO. SCALE
55 LO. SCALE

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
Ao	3								
A1									
A2									
B									

DEPTH

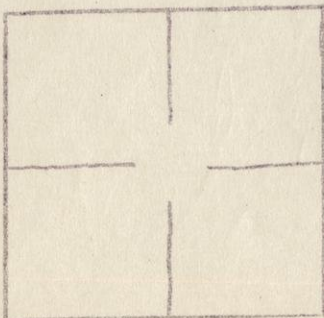
CHARACTERISTICS (Color, Texture, Structure, etc.)

Ao	1-3"	deciduous leaves
A1	1"	sandy (black)
A2	1"	fine sand (gray)
B	2 1/2"	fine sand (pinkish white)

Parent Material:

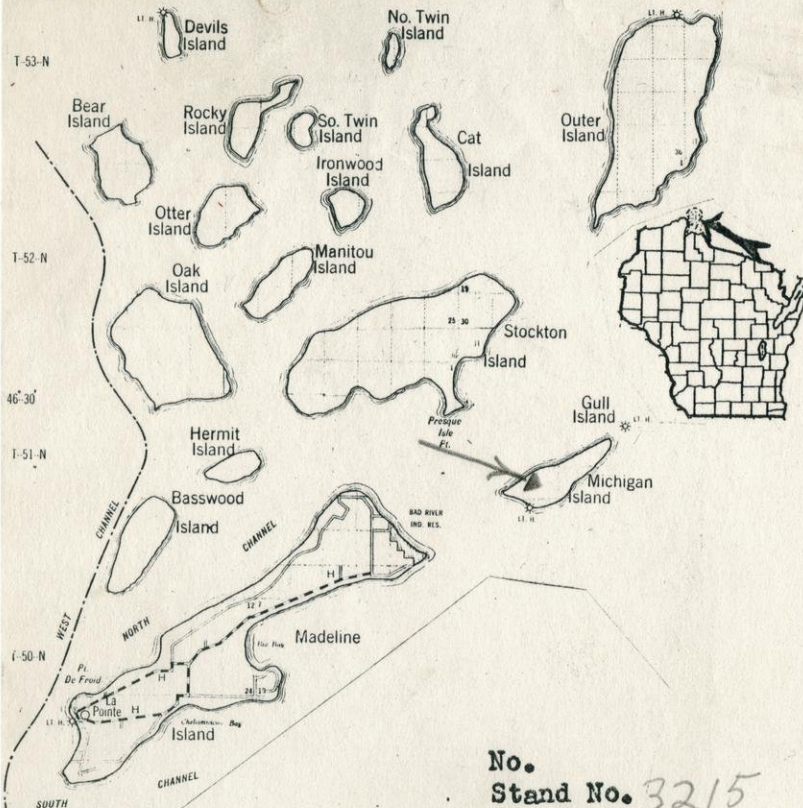
ENTIRE PROFILE LESS THAN 1 FOOT

Map:



Northern WISCONSIN ASHLAND County

APOSTLE ISLANDS in LAKE SUPERIOR



No.
Stand No. 3215
Date:

Collected by

Grant Cottam
Richard J. Vogl

Northern Pine-Hardwoods

80 160 104 56

11,577 160

Station Number: 3215

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	12	15	15			475	49	30.6			15.0	9.4	4.1	28.5	
Acer rubru	1	1		1		150	1	.6			1.2	.6	1.3	3.1	
A. sacchar							1	.6							
A. spicatu															
Betula lut.	8	12	10	2		583	29	18.1			10.0	7.5	5.0	22.5	
B. papyrif.	37	105	54	51		924	14	8.8			46.2	65.6	79.8	191.6	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus											1.2	.6	.4	2.2	
Populus ba															
P. grandid															
P. tremulo															
Prunus pen							4	25							
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana							1	.6							
Thuja occi	15	20	18	2	899	899	49	29.4			18.8	12.5	7.8	39.1	
Ulmus amer															
U. fulva															
PINOS															
STRABOS	1	1	1		50	50					1.2	.6	.4	2.2	
PYROS															
AMER	6	6	6		197	199	14	8.8			7.5	3.8	1.5	12.8	
											99.9	100.0	99.9	299.8	
								100.0							

AVE. DIST. BTW'N TREES: 11.6
Ave. Sap. Dist. 15.1

AVE B. A.: 72.4

TREES/ACRE: 323.7
191.0DOM./ACRE: 23435.9
162.7

POINT RECORD TREES APOSTLE ISLANDS

3215

Point Number	1	2	3	4	5	6	7	8	9	10
<i>Abies balsamea</i>				40			✓	25 23		17
	1	1	3	1		2		2	2	3
<i>Acer rubrum</i>										
<i>Acer saccharum</i>	✓									
	1									
<i>Betula lutea</i>		75 50								
			1			1			1	1
<i>Betula papyrifera</i>	65 110 160	110 85	70 75 85 95	95 160	40 100	65 75 25	210 135	45 29	20 26 40 250	75 45
<i>Quercus rubra</i>				2	1					
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>	26			40	75		60		1	21
	5	3			17	15	17			
<i>PRUNUS AMER.</i>					1	3	1		1	
<i>PRUNUS PENN.</i>										
	7.5 13 17 11	9.5 13 12.5 23	12.5 6 7 28	23 12 8 17	20 3 17 34	4 7 8 18	11.5 35 23 17	12 11.5 16 28	13 12 7 16	3 7 10.5 8
Tree distance	16 24 40 6	17 44 45 60	16.5 13 10 15	13 15 18 21	7 10.5 8 18	7 6 14 4	16 38 19 5	10.5 15 17 20	23 28 16 28	7 5 6 22
Sapling distance										

3/4

1/2

10/26

5/5

3/3

POINT RECORD TREES APOSTLE ISLANDS

3215

Point Number	1	2	3	4	5	6	7	8	9	20	
<i>Abies balsamea</i>		35	28		25 21						3/4
<i>Acer rubrum</i>		1	1		2	1	2	1	150		1/1
<i>Acer saccharum</i>											
<i>Betula lutea</i>								40 17 28	21 15		2/5
<i>Betula papyrifera</i>	1		1	1		2	1	3	2	2	9/27
	35 75 80	18 50 45	45 32 90	60 35 70 120	150	100 110 110	90 200 160		60 95	190 130 52 235	
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>					45	50					2/2
	1	2	2	2					2	2	
PYRUS AMER.	45										1/1
	2	1			1		1				
Tree distance	7.5 4 9 17	7 6 5 8	6 12.5 7 16	3 9 7 16	8 12.5 11 9.5	6 14 7 16	8 3 8.5 16	6 10 13 14	8 7.5 7 15	8 9.5 17 19	
Sapling distance	6 8 11.5 15	12.5 13.5 11 10.5	6 11 26 6	14.5 6 8 10	7 9 7 6.5	16 4 4 17	6.5 8.5 12.5 11.5	19 10 20 26	7.5 13.5 13 22	17 15 18 21	

POINT RECORD TREES APOSTLE ISLANDS

3215

Point Number	21	22	23	24	25	26	27	28	29	30	
<i>Abies balsamea</i>						45	40	26 20	30		4/5
<i>Acer rubrum</i>		1			1	4	4	4	1		
<i>Acer saccharum</i>				1							
<i>Betula lutea</i>	25										1/1
<i>Betula papyrifera</i>	4 130 80	220 85 65	30 100 130	100 130 110	110 40 100 35	65 55 30	95 110 135	150 110	35 80 110 11	45 35 1	10/28
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>	100	28	150							45	4/4
<i>PYRUS AMER</i>		2	4	1	55				2	3	2/2
		1		1							
Tree distance	6 9 13 16	5 6 6 16	11 15.5 26 21	6 13.5 23 18	9 24 13.5 16	8 11.5 13 13	10 17.5 15 15	17 6 3 23	12 23 14.5 7	4 7 9.5 8.5	
Sapling distance	25 12 21 25	3 12.5 19 25	32 10 15.5 55	8 15 13 11	18 8 7 28	14 11 19 18.5	2 8 8.5 8	8 7.5 9.5 15.5	7 4.5 7 27	8 15 8.5 7	

POINT RECORD TREES APOSTLE ISLANDS

3215

Point Number	31	32	33	34	35	36	37	38	39	40	
<i>Abies balsamea</i>			25				75				2/2
		1	3		2	1		2	1	1	
<i>Acer rubrum</i>											
<i>Acer saccharum</i>											
<i>Betula lutea</i>	14				18		130			150	4/4
	1	1		1			1	1	1		
<i>Betula papyrifera</i>	110 125	160 50 35	70 55 100	35 23 50 170	70 55 80			21 70	60 90 90 70	60 90 100	8/24
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>	40					24 19 50	23 20	45 15			1/9
	3	2	1	1	2	23	3	1		3	
PINUS STROBOS		50									1/1
PRUNUS AMER											
									1		
Tree distance	9.5 4 16 18	10.5 8 8 14.5	4 7 11.5 13	3 16 11.5 4.5	6 7.5 9 7.5	6 8.5 10	17 15 10 14	4 7 14 6	8 5 14 15	9 11.5 10 26	
Sapling distance	12 16 7.5 6	3 5 12	5 4 4.5 6	21 8 9 2.7	9 7 18 2.0	8 44 12.5 22	13.5 10.5 25 7.6	15 31 36 10	12.5 21 12 13.5	1 20 16 6	

STAND # 3215

SPECIES	T	T	H	H	M	M	L	L	O	TO
TO										15
TAX										103
AB										22
AS										17
BP			1		1		1			3
			25		17		64		54	

STAND # 3215

BROWSE CONDITION BY SPECIES

SPECIES	T	H	M	L	O	TOTAL
TO				13.3	86.7	100.0
TAX		13.6	10.7	47.6	28.2	100.1
AB				45.5	54.5	100.0
AS		58.8	29.4	11.8		100.0
BP		33.3	33.3	33.3		99.9

% EACH SPECIES CONTRIBUTES TO EACH BROWSE CATEGORY

	TO	TAX	AB	AS	BP	TOTAL
T						
H		56.0		40.0	4.0	100.0
M		64.7		29.4	5.9	100.0
L	3.1	76.6	15.6	3.1	1.6	100.0
O	24.1	53.7	22.2			100.0

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

T	H	M	L	O	TOTAL
	15.6	10.6	40.0	33.8	100.0

% BROWSE SPECIES

TO	TAX	AB	AS	BP	TOTAL
9.4	64.4	13.8	10.6	1.7	100.1

DEER DAMAGE REPORT FORM

Stand No.

3215

210.5

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	AS	5	H	TAX	7	H	TAX	5	M	AS	6	H
2	TAX	1	L	TAX	1.5	L	TAX	2	L	TAX	2	M
3	TAX	1	O	TAX	3	H	TAX	2	L	TAX	2	M
4	TAX	1	L	TAX	2	O	TAX	2	L	TAX	4	M
5	AE	3	L	TAX	3	O	TAX	1.5	L	AB	3	O
6	TAX	2	O	TAX	3	O	TAX	2	L	TAX	2	O
7	AB	2	L	AB	3	L	AB	2.5	L	AS	6	H
8	AS	6	M	AS	10	L	AB	10.5	O	TO	4	O
9	TAX	1.5	O	TAX	2	O	TAX	3	L	TAX	2.5	L
10	TAX	3	O	TAX	2.5	L	TAX	3	O	TAX	5	L
11	TAX	2	O	TAX	1.5	L	TAX	3	L	TAX	3	L
12	TAX	11	L	TAX	11	H	AB	18	L	TAX	11.5	L
13	TAX	1.5	L	TAX	1.5	O	TAX	2	O	TAX	3	L
14	TO	2	O	TAX	4	L	TO	8	O	TO	6	O
15	TAX	2	H	TAX	1.5	L	AS	6	H	AS	15	A
16	TAX	2	M	TAX	2	H	TAX	2	L	TAX	2	L
17	TAX	1.5	L	TAX	1.5	O	BP	3	H	TAX	4	M
18	TAX	3	L	TAX	5	L	TAX	4	L	AS	5	H
19	TO	3	O	TO	5	O	TO	7	O	TO	9	O
20	AB	1	O	AS	6	H	AS	8	H	AS	5	M
21	AB	3	L	AS	8	H	AB	10	L	TAX	6	M
22	TAX	6.5	M	TAX	3	L	TAX	3	O	TAX	8	L
23	TAX	3	O	TAX	1.5	O	TAX	8	M	TAX	4	L
24	BP	3	M	TAX	2	L	TAX	6	H	TAX	5	O
25	AS	5	M	TAX	8	L	TAX	7	M	TAX	2	O
26	AB	3	O	AB	2.5	L	TAX	7	L	AS	11	M
27	AB	2	O	AS	5	M	AS	5	L	AB	6	O
28	TAX	4	O	TAX	3	O	TAX	3.5	O	BP	0	L
29	TAX	4	H	TAX	3	O	TAX	4	L	TAX	6	O
30	TO	2	O	TAX	1.5	L	TAX	2	L	TO	5	O
31	TAX	3	L	TAX	4	L	TAX	1.5	L	TAX	1	O
32	TAX	4	H	TAX	3	L	TAX	4	H	TAX	2	L
33	AB	6	O	AB	9.5	O	AB	9	O	TO	5	O
34	TAX	1	H	TAX	5	L	TAX	2	O	TAX	3	L
35	AB	6	O	AB	8	O	TO	8.5	L	AB	7	L
36	TAX	6	O	TAX	5	H	TAX	4.5	L	TAX	5	L
37	TAX	1	L	TAX	1.5	H	TAX	3	O	TAX	1.5	L
38	AB	4	O	TAX	2	H	TAX	1.5	L	TO	10	O
39	TAX	2.5	H	AS	3	H	TAX	2	M	TAX	5	L
40	TO	1	L	AB	10	L	TO	10	O	TAX	6	O

674.5

are. dist. - 4.2
 Browse per acre - 2469.4 TAXUS VERY ABUNDANT
 THROUGHOUT STAND

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3215
Quadrat No. 1-10

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	7 Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
9 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	7 Rubus ^{CRASSICARY} parviflorus
Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
7 Carex ^{SP} albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	7, 5 Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	5 Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	97, 53, 1 Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	7 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	7, 1 Viola ^{LUCCOSKITA} canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
1 Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

753, 1 ACER SPIC.

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3215
Quadrat No. 10-20

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
 17 *Cornus canadensis*
Cornus rugosa
Corylus americana
Corylus cornuta
Cypripedium acaule
Diervilla lonicera
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
 17 *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
 17 *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
 17 15 13 11 *Taxus canadensis*
Thalictrum dioicum
 17 *Trientalis borealis*
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

15 ASER SPIC

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3215
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
29, 27 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	27 Lycopodium lucidulum	Smilax ecirrhata
29 Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	27 Maianthemum canadense 29, 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	Viola cucullata
29 Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

27, 25, 23 ACER SPIC

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3215
Quadrat No. 30-40

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	5 Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
Aralia nudicaulis 15	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	5 RASBERRY Rubus parviflorus
Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
35 Carex ⁵⁰ albursina 10	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	2033 Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	5 Lycopodium lucidulum	Smilax ecirrhata
33 Clintonia borealis 10	1533 Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	153533 Maianthemum canadense 393738	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis 5	Mitella diphylla	203533 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	10 Viola canadensis ^{INDICATA}
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
95 Dryopteris spinulosa 20	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

50 3935 ACER SPICATUM

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3215

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
 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
 X *Tsuga canadensis*
Ulmus americana
Ulmus fulva

X PYRUS AMER.

HERBS AND SHRUBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Agrimonia grypsossepala
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
Chionogenes hispidula

Circaea alpina
Circaea latifolia
Claytonia caroliniana
Claytonia virginiana
 X *Clintonia borealis*
Convolvulus spithameus
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
 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
Laporteia 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*
 X *Lycopodium obscurum*
Lycopodium tristachyum
Lycopus americanus
Lycopus uniflora
Lysimachia quadrifolia
 X *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

Additional Species:

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
X 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
X 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