



# LIBRARIES

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## Site 3213: Hermit Isle #2, Ashland County. 1956-08-7

[s.l.]: [s.n.], 1956-08-7

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STAND RECORD

FORESTS

Stand No. 3213 ✓

Name: *Hemit Isle #2*

County: *Ashland*

Date: *Aug. 7, 1956*

Size of Stand

Forest Type:

Topography:

Locality:

T:

R:

Sec:

Observers:

Size of Area Sampled:

Soil Type:

Slope:

Directions

Condition of Stand:

Open Grown Trees:

Stumps:

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

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A <sub>0</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____
A <sub>1</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____
A <sub>2</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____
B	_____	_____	_____	_____	_____	_____	_____	_____	_____

DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

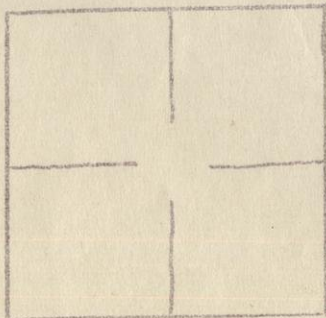
A<sub>0</sub> *1/2"*  
A<sub>1</sub> *1 1/2" BLACK - some sandy loam*  
A<sub>2</sub> *2" Reddish - Brown, Fine Sand*  
B *4" Light Reddish Brown sand - compacted*

*total profile 6 - + 12 in*

Parent Material:

*light In 60 (low)*

Map:



Northern Pine-Hardwoods

110 160 140 20

7709 160

Station Number: 3213

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	3	3	2	1		158	4	2.5			2.7	1.9	2.0	6.6	
Acer rubru	18	23	21	2		987	6	3.8			16.4	14.4	12.8	43.6	
A. sacchar	6	6	4	2		372	31	19.4			5.4	3.8	4.8	14.0	
A. spicatu															
Betula lut	23	37	36	1		1018	83	51.9			20.9	23.1	13.2	57.2	
B. papyrif	33	57	50	7		3146	23	14.4			30.0	35.6	40.8	106.4	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid	1	1	1			15					.9	.6	.2	1.7	
P. tremulo	19	25	20	5		1524	2	1.2			17.3	15.6	19.8	52.7	
Prunus pen	1	1	1			14					.9	.6	.2	1.7	
Quercus el															
Q. rubra	2	3	1	2		300	1	.6			1.8	1.9	3.9	7.6	
Tilia amer							1	.6							
Tsuga cana															
Thuja occi	2	2	2			110	8	5.0			1.8	1.2	1.3	4.3	
Ulmus amer															
U. fulva															
PYRUS AMER.	2	2	2			75	1	.6			1.8	1.2	1.0	4.0	
								100.0			99.9	99.9	100.0	299.8	

AVE. DIST. BTW'N TREES: 10.7  
ave. Sap. Dist. 12.7

AVE B. A.: 48.2

# TREES/ACRE: 380.5  
270.1

DOM./ACRE:  
18340.  
127.449 ft.

POINT RECORD TREES APOSTLE ISLANDS

Point Number	1	2	3	4	5	6	7	8	9	10
Abies balsamea <i>Pop tremuloides</i>					130	40	45		50	70
Acer rubrum	18	50 20	25 75	40 20	40	17			✓	
Acer saccharum				✓	12				15	20
Betula lutea				55 27						20
Betula papyrifera	130 75 35	210 40	80		17	45	25 50 35	20 80 70	20 40	14
Quercus rubra <i>Abies</i>										
Tsuga canadensis										
Thuja occidentalis								40		
<i>Tilia americana</i>										
<i>Prunus pen</i>						14				
Tree distance	9.5 8.0 8.0 10.5	4.0 18.0 12.0 26.0	5.0 14.5 11.0 15.0	15.5 14.0 7.5 24.0	11.0 12.5 11.0 20.0	9.5 14.5 8.5 16.5	4.0 6.0 8.0 8.5	5.0 8.0 8.0 12.0	15.0 8.0 3.0 17.0	3.0 12.0 8.5 11.0
Sapling distance	18.0 9.5 8.0 17.0	14.0 19.0 21.0 11.0	7.0 6.0 12.6 9.5	6.0 17.0 17.0 21.0	12.5 12.5 17.0 10.5	6.0 13.0 20.0 12.5	7.0 9.0 13.5 12.5	4.0 10.6 28.0 23.0	7.0 5.0 13.0 22.0	9.0 14.5 15.0 14.0

5/5

6/10

3/3

2/3

9/17

4/1

4/1

POINT RECORD TREES APOSTLE ISLANDS

Point Number	11	12	13	14	15	16	17	18	19	20
Abies balsamea <i>Pop tree</i>	50 45	95	✓			115 2 55	✓			
Acer rubrum			90				✓		35	
Acer saccharum		30			110		✓			
Betula lutea	✓	20	45		35 19			15 30	25	21 16
Betula papyrifera	30	50	85	50 60 53 21	35	50	13 95 90 16	65 55	35	30 15
Quercus rubra	2	2	1		1				1	
Tsuga canadensis										
Thuja occidentalis			60							
<i>Pop. grandidentata</i>	15									
<del>Pop tree</del> <i>Populus</i>						20				
Tree distance	4.5 17.0 16.5 9.0	3.0 10.5 11.0 20.0	14.5 11.0 3.5 13.0	8 14 11 16	5 13 14 13	6 9 11 12	8 9 14 8	6 8 6 12	10 8 15 17	14 7 10 12
Sapling distance	3.0 12.5 10.5 34.0	6.0 18.0 8.0 11.5	18.0 15.0 3.5 12.5	8 16 20 15	12 12 15 16	8 15 8 20	7 4 10 32	5 8 9 8	16 9 13 13	9 10 9 11

Abies

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2/2

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10/18

4/1

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POINT RECORD TREES APOSTLE ISLANDS

3213

Point Number	21	22	23	24	25	26	27	28	29	30
<i>Abies balsamea</i>									23	20
<i>Acer rubrum</i>	40		25			30		32	23	34
<i>Acer saccharum</i>					1				1	
<i>Betula lutea</i>	15 12 4	50 14 4	12 4	15 40 15 4	3	3	17 15 23	16 21 2	3	16 3 3
<i>Betula papyrifera</i>		55 40	55		70 45 40 45	13 40 35	55 2	32 1	45	40
<i>Quercus rubra</i>										1
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
<i>Populus tremuloides</i>	40		45	35					55	
Tree distance	12- 9- 8- 11	11- 13- 13- 6	9- 9- 11 14-	5 10 8 8	7 6- 14 13-	7- 7 9- 17	5 7 9.5 15	5 7 10 10	8 9.5 10 12.5	10 12 14.5 13
Sapling distance	4 8- 8- 9	8- 16 12- 9-	9- 10- 15 19	4- 12 13 15	6- 11 8- 23	7- 13 18 27	17 6 5 8	7 23 9.5 19	8 17 20 16	15 7 7 12

2/2

6/6

2/14

8/14

4/4

POINT RECORD TREES APOSTLE ISLANDS

3213

Point Number	31	32	33	34	35	36	37	38	39	40
<i>Abies balsamea</i>										
<i>Acer rubrum</i>		50	18	120					35 75	
<i>Acer saccharum</i>	✓		185 ✓							
<i>Betula lutea</i>	180	12 35	35	12	12		16 12		45 ✓	25 25
<i>Betula papyrifera</i>	4	3	2	1	1	3	2	2	4	1
<i>Quercus rubra</i>			✓ 155		55 90					
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
POPULUS TREM.	40 63 130	12		180		50		40 24 35 50		120
PYRUS AMER.			✓				55			
Tree distance	7 10 24 29	7 9 14 4	7.5 9.5 20 11	6 7 15 14.5	8 9.5 13 14	6.0 11.5 10.5 19.0	8.0 22.5 7.5 8.5	5.0 6.0 13.0 5.5	3.5 12.5 11.5 12.5	9.0 9.0 12.0 9.0
Sapling distance	3.5 6 21 22	4.5 4 11 24	12 11.0 11.5 13	6 8 17 12.5	12 13.5 16 15	6.0 15.0 10.0 10.5	5.0 9.5 28.0 46.0	9.0 13.5 8.0 16.5	2.6 16.0 16.0 12.5	19.0 6.0 20.0 11.0

4/5

1/1

8/11

6/8

2/3

6/11

1/1

BROWSE CONDITION BY SPECIES %

SPECIES	T	H	M	L	O	TOTAL
TO		100.0				100.0
AB	16.7	37.5	12.5	29.2	4.2	100.1
AS		11.1	33.3	22.2	33.3	99.9
AC		4.0	4.0	44.0	48.0	100.0
CC		16.0	30.0	48.0	6.0	100.0
BP			20.0		80.0	100.0
CSP			100.0			100.0
BL			8.6	14.3	77.1	100.0

% EACH SPECIES CONTRIBUTES TO EACH BROWSE CATEGORY

	TO	AB	AS	AC	CC	BP	CSP	BL	TOTAL
T		100.0							100.0
H	4.8	42.9	9.5	4.8	38.1				100.1
M		10.0	20.0	3.3	50.0	3.3	3.3	10.0	99.9
L		13.7	7.8	21.6	47.1			9.8	100.0
O		1.9	11.3	22.6	5.7	7.5		50.9	99.9

% EACH SPECIES CONTRIBUTES TO TOTAL BROWSE = CATEGORY TOTAL / 159

T	H	M	L	O	TOTAL
2.5	13.2	18.9	32.1	33.3	100.0

TO	AB	AS	AC	CC	BP	CSP	BL	TOTAL
.6	15.1	11.3	15.7	31.4	3.1	.6	22.0	99.8



159 in all

STAND # 3213

	T	H	M	L	O	
SPECIES TO		1				(1)
AB		<del>    </del>		<del>    </del>	1	(24)
AS			<del>    </del>		<del>    </del>	(18)
ce		<del>    </del>	<del>    </del>      	<del>    </del>      <del>    </del>      		(50)
AC		1	1	<del>    </del>      /	<del>    </del>	(25)
BP			1			(5)
Csp			1			(1)
BL					<del>    </del>	(35)
	(4)	(21)	(30)	(51)	(53)	

## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3213-16T

Quadrat No. 1-10

Actaea pachypoda	Fragaria virginiana 5	Potentilla simplex
Actaea rubra .	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	Pteridium aquilinum 1
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia 3	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 1,3,5,7	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
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 5
Corallorrhiza maculata	Maianthemum canadense 9	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis 9	Mitella diphylla	Trientalis borealis 5,9
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

Acer sp. 1,3,7

Comp 5,7

Viola incog 1

3213

## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. ~~3161~~  
Quadrat No.

11-20

Actaea pachypoda	Fragaria virginiana 17	Potentilla simplex
Actaea rubra .	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum 11, 13 17 19	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 11	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	Hepatica americana	Rubus (blackberry) 17
Botrychium virginianum	Impatiens biflora	Rubus (dewberry) 11
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 13 19	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus 19
Corallorrhiza maculata	Maianthemum canadense 19	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis 11, 13	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 11, 13, 17, 19
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa 13, 15, 19	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

Acer sp. 11, 13, 15 17 19

Cypripedium 13

Carex 13

Equisetum sylvaticum 17

Viola incog, 11, 13

## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. ~~3161~~  
3213  
Quadrat No. 21-30

Actaea pachypoda	Fragaria virginiana 25, 27	Potentilla simplex
Actaea rubra .	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum 26, 27	Pteridium aquilinum 27
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) rough 25
Botrychium virginianum	Impatiens biflora	Rubus (dewberry) 21, 25, 27
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina 21	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum CLAVATUM, 27, 29	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum 25	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis 21, 25, 25, 29	Mitella diphylla	Trientalis borealis 21, 29
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta 27	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 21, 25, 25, 27
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata 29
Dryopteris spinulosa 23	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides
Acer spicatum 21, 23, 27, 29	Equisetum arvense 25	

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3161  
Quadrat No. 5213

Actaea pachypoda	25	Fragaria virginiana 37	Potentilla simplex
Actaea rubra		Galium lanceolatum	Prenanthes alba
Adiantum pedatum	40	Galium triflorum 37, 39	10 Pteridium aquilinum
Allium tricoccum		Gaultheria procumbens	Pyrola elliptica
5 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
25 Aster macrophyllus		Helianthus strumosus	Rosa sp.
5 Aster sagittifolius 37		Hepatica acutiloba	Rubus parviflorus
Athyrium angustum		Hepatica americana	5 Rubus (blackberry)
Botrychium virginianum		Impatiens biflora	5 Rubus RASPBERRY
Brachyelytrum erectum		Linnaea borealis	35 Rubus (dewberry) 37, 39
5 Carex albursina		Lonicera oblongifolia	Sambucus pubens
Caulophyllum thalictroides		Lupinus perennis	Sanguinaria canadensis
Chimaphila umbellata	10	Lycopodium <del>annotinum</del> CLAVATUM	Sanicula gregaria
Circaea alpina		Lycopodium complanatum	Smilacina racemosa
Circaea latifolia		Lycopodium lucidulum	Smilacina stellata
5 Clintonia borealis 37	25	Lycopodium obscurum 37, 39	Smilax ecirrhata
Coptis trifolia		Lysimachia quadrifolia	10 Solidago ulmifolia
Corallorrhiza maculata	25	31 Maianthemum canadense 37, 39	Streptopus roseus
Cornus alternifolia		Mitchella repens	Taxus canadensis
40 Cornus canadensis 39		Mitella diphylla	30 33, 31 Trientalis borealis
Cornus rugosa		Mitella nuda	Trillium grandiflorum
Corylus americana		Monotropa uniflora	Uvularia grandiflora
15 31 Corylus cornuta 37	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	55 Viola <del>canadensis</del> INCOGNITA
Dryopteris phegopteris		Phryma leptostachya	Viola cucullata
25 Dryopteris spinulosa 39		Polygala pauciflora	Viola pallens
Epifagus virginiana		Polygonatum commutatum	Viola pubescens
Epigaea repens		Polygonatum pubescens	Waldsteinia fragarioides

20 Coryx sp 39

80 39, 37, 33, 31 ACER SPIC.

5 CYSTIDIUM = CYSTOPTERIS?  
5 Equisetum sylvaticum sylvaticum  
5 Equisetum arvense

~~Viburnum acerifolium~~ 37

DEER DAMAGE REPORT FORM

Stand No. 3213

377.5      447.0      552.      567.

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	As	8	O	CC	18.5	L	CC	19.0	M	CC	16.0	M
2	CC	3	L	CC	5	M	CC	16.0	L	Ac	4	L
3	AB	8	L	Ac	9	O	CC	16	L	Ac	9	L
4	CC	11.5	M	Ac	6	O	CC	22	M	CC	9.5	H
5	CC	3	L	Csp	8	M	CC	3.5	L	CC	24	M
6	Ac	20	L	CC	24	L	BL	10.0	O	BP	10.5	O
7	CC	7	L	CC	5	L	CC	7	H	Ac	5.5	L
8	CC	7	M	CC	18	M	AB	5.5	H	AS	29	M
9	CC	5	O	As	12.5	M	T	14.5	H	AB	18.5	H
10	CC	11.5	L	Ac	24	O	BL	7.5	O	CC	11.0	H
11	CC	16	L	AB	11	O	CC	16.0	O	As	13	M
12	CC	8	H	BL	5	O	CC	9.5	H	BP	18	O
13	As	7	M	CC	8	M	CC	10	M	As	16	O
14	AB	12	T	AB	16	T	CC	13	L	CC	10	L
15	BL	17	O	BL	13	O	BL	2.0	L	Ac	24	O
16	AB	13	M	AB	8	H	Ac	9	L	BL	23	O
17	AB	1	T	AB	9	T	AB	24	H	Ac	8	O
18	AS	13	M	Ac	13	L	Ac	8	L	BL	15	O
19	CC	14	M	AB	16	L	BL	28	L	BL	9	O
20	Ac	25	L	BL	9	O	BL	12	M	CC	13	L
21	BL	4	O	BL	36	O	BL	15	O	BL	9	O
22	BL	5	O	As	12	L	BL	12	O	BL	4	O
23	BL	8	O	BL	10	M	BL	12	L	BL	14	M
24	Ac	14	M	BL	5	O	BL	4	O	AS	8	O
25	Ac	11	O	BL	5	O	AS	8.5	L	AS	30	O
26	CC	10	M	CC	3	M	AB	13	L	AB	14	H
27	CC	7	L	CC	4	L	CC	17.4	O	CC	6	L
28	Ac	4	L	CC	10	L	Ac	27	O	BP	27	O
29	Ac	5	L	BP	8.5	O	Ac	8	L	AS	8	O
30	AB	2	L	AB	2	L	AB	8	L	BL	7	O
31	CC	13.5	M	AB	20	H	AB	5	H	AB	13.5	M
32	AB	7	H	BL	6	O	BL	5	O	AB	12	H
33	CC	6	M	CC	11	H	AB	18	M	AB	10.3	L
34	CC	19	M	Ac	11.3	O	AS	6	L	AS	18	H
35	Ac	12	O	Ac	13	O	BL	18	O	Ac	17	O
36	BL	4	O	CC	13	L	CC	9.5	L	Ac	20	H
37	CC	.5	L	CC	11	H	AS	16	H	BL	7.5	O
38	Ac	8	O	BL	5	O	CC	8	H	AS	9.5	L
39	BL	9.5	L	As	9	H	BL	8	L	As	18	M
40	CC	11	L	CC	11	L	CC	15	L	BP	24	M

1943.5

Csp - Sambucus

Ave. dist 12.15  
Browse per acre 295.08

## PRESENCE LIST

## NORTHERN PINE-HARDWOODS

STAND NO. 3713

Abies balsamea ✓  
 Acer rubrum ✓  
 Acer saccharum ✓  
 Acer spicatum ✓  
 Amelanchier sp. ✓  
 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  
 Pinus strobus  
 Populus balsamifera  
 Populus grandidentata  
 Populus tremuloides ✓  
 Prunus pennsylvanica  
 Prunus serotina

Prunus virginiana ✓  
 Quercus alba  
 Quercus ellipsoidalis  
 Quercus macrocarpa  
 Quercus rubra ✓  
 Sorbus decora  
 Thuja occidentalis ✓  
 Tilia americana ✓  
 Tsuga canadensis ✓  
 Ulmus americana  
 Ulmus fulva

*Pyrus* ✓

## 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  
 Clintonia borealis ✓  
 Convolvulus spithameus  
 Coptis trifolia  
 Corallorrhiza maculata  
 Corallorrhiza striata  
 Cornus alternifolia  
 Cornus canadensis ✓  
 Cornus femina  
 Cornus rugosa  
 Corylus americana  
 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  
 Dryopteris linneana  
 Dryopteris phegopteris ✓  
 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  
 Lycopodium lucidulum ✓  
 Lycopodium obscurum ✓  
 Lycopodium tristachyum  
 Lycopus americanus  
 Lycopus uniflora  
 Lysimachia quadrifolia  
 Maianthemum canadense ✓

*Anaphalis* ✓

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  
Phytolacca leptostachya  
Podophyllum peltatum  
Polemonium reptans  
Polygala pauciflora  
Polygonatum commutatum  
Polygonatum pubescens  
Potentilla simplex  
Prenanthes alba  
Pteris 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 ✓  
Taxus canadensis  
Thalictrum dioicum  
Tiarella cordifolia  
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:

*Pitcairnia palmata* ✓