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Site 3224: Bayfield Mainland - Top of the Hill Behind School, Bayfield County. 1956-08-25

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STAND RECORD

FORESTS

Stand No. 3274

Name: Bayfield Mainland - Top of hill behind school
 County: Bayfield
 Date: Aug 25 1954
 Size of Stand: 10 acres
 Forest Type: Oak-aspens
 Topography:

Locality:

T:

R:

Sec:

Observers: Cottam

Size of Area Sampled: 10 Acres

Soil Type:

Slope: Flat Directions

Condition of Stand: Second growth - Almost all trees - including the red oaks - are stump sprouts. Understory a solid canopy of 1-3" sugar & red maple. Little current evidence of deer. Fine scars on stumps but not on current trees

Open Grown Trees:

% Canopy:

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									

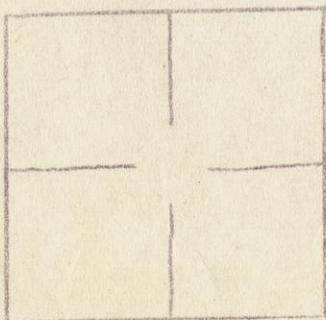
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1/2"	Deciduous leaves
A ₁	1"	Black, sandy loam
A ₂	1 1/2"	Grey sand
B	+ 6"	Red sand

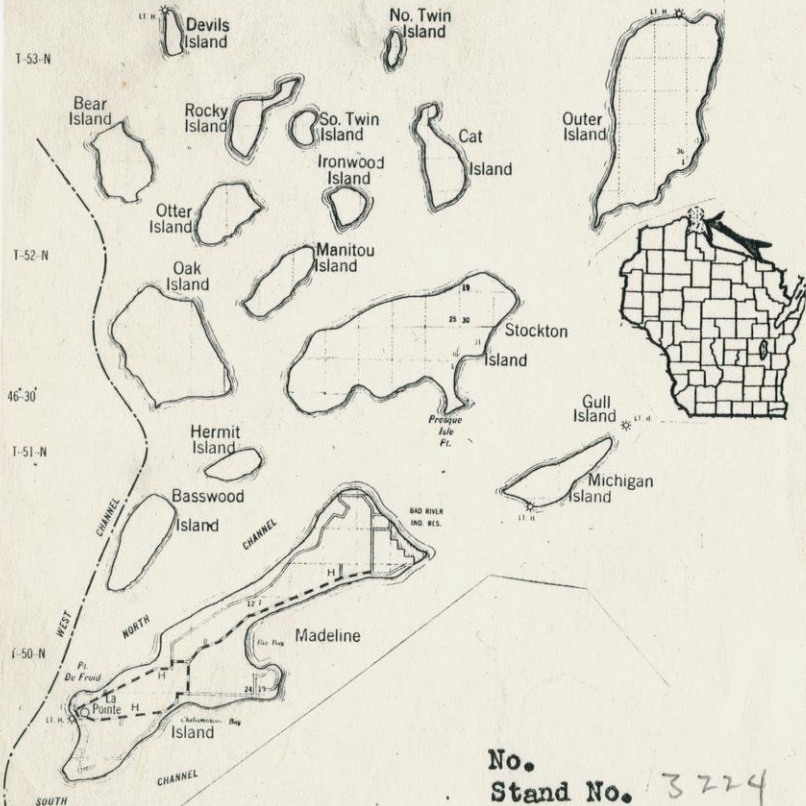
Parent Material:

Map:



R-1-W

APOSTLE ISLANDS in
LAKE SUPERIOR



Collected by

Grant Cottam
Richard J. Vogl

No.
Stand No. 3224
Date:

Northern Pine-Hardwoods

97 160 148 12

6,334 160

Station Number: 3224

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	1	1	1			60	4	2.5			1.0	.6	.9	2.5	
Acer rubru	15	17	17			296	23	14.4			15.5	10.6	4.7	30.8	
A. sacchar	11	12	12			213	115	71.9			11.3	7.5	3.4	22.2	
A. spicatu															
Betula lut							1	.6							
B. papyrif	1	1	1			22					1.0	.6	.3	1.9	
Carpinus c															
Fagus gran															
Ostrya vir	1	2	2			55	4	2.5			1.0	1.3	.9	3.2	
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo	24	56	54	2		1870	6	3.8			24.7	35.0	29.5	89.2	
Prunus pen															
Quercus el															
Q. rubra	24	45	39	6		2531	1	.6			24.7	28.1	40.0	92.8	
Tilia amer	14	20	20			667	5	3.1			14.4	12.5	10.5	37.4	
Tsuga cana	5	5	1	4		580					5.2	3.1	9.2	17.5	
Thuja occi															
Ulmus amer															
U. fulva															
pyrus amer.	1	1	1			40	1	.6			1.0	.6	.6	2.2	
								100.0			99.8	99.9	100.0	299.7	

AVE. DIST. BTW'N TREES:

11.4

AVE B. A.:

39.6

TREES/ACRE:

335.2

DOM./ACRE:

13273.9

ave. Sap. Dist. 6.5

1,031.0

92.2

POINT RECORD TREES APOSTLE ISLANDS

3224

Point Number	1	2	3	4	5	6	7	8	9	0
<i>Abies balsamea</i>										
<i>Acer rubrum</i>	✓ 18		✓ 35	20			22			
<i>Acer saccharum</i>	1	2	7	1		✓	16		✓ 15	2
<i>Betula lutea</i>	2	2	4	2	4	3	2	3	3	1
<i>Betula papyrifera</i>					✓					
<i>Quercus rubra</i>	60 80	210 95 100		80	✓		45			
<i>Tsuga canadensis</i>	170		95							
<i>Thuja occidentalis</i>										
<i>Tilia</i>	35			28		45 25	50		14	
<i>Ostrya virginiana</i>	1									
<i>Populus tremuloides</i>				40						
<i>Populus tremuloides</i>			50 20		18 65 110	35 45		30 65 20 45	55 22 1	19 15 25 15
Tree distance	5 15 24 19	16 17 21 6	12 8 9 9	7 9 5 18	6 9 15 13	6 12 12 16	2 14 8 8	4 4 13 14	9 7 13 16	4 3 10 12
Sapling distance	2 5 15 12	4 3 5 8	6 2 3 7	6 8 5 7	2 7 6 10	4 15 6 6	6 8 4 8	2 6 4 6	5 3 3 10	2 5 6 3

4/4

3/3

4/7

2/2

4/5

1/1

6/18

POINT RECORD TREES APOSTLE ISLANDS

3224

Point Number	1	2	3	4	5	6	7	8	9	20
<i>Abies balsamea</i>										
	1									
<i>Acer rubrum</i>			✓	13	14	4	✓	20	✓	13
			1	3	1		12	18	15	1
<i>Acer saccharum</i>			✓			15		35		25
	2	3	3	1	3	3	4	4	4	3
<i>Betula lutea</i>										
<i>Betula papyrifera</i>				22						
<i>Quercus rubra</i>	35			26	20 50 14	35	70 90		70 40	✓
<i>Tsuga canadensis</i>			120							
<i>Thuja occidentalis</i>										
<i>Tilia</i>	50					35 35		35	35	
<i>Ostrya virginica</i>									✓ 35 20	
<i>Populus tremuloides</i>	15 13	29 15 14 30	30 20 16	13						
	5 13 9 11	7 15 13 13	8 8 17 11	7 12 10 22	13 26 6 12	4 12 12 17	7 6 9 10	5 9 16 20	11 20 13 16	11 15 7 28
Tree distance	4 6 9 13	4 6 9 14	2 5 4 13	2 5 7 11	7 14 11 16	1 5 8 5	7 5 6 8	4 5 5 3	4 14 18 23	5 11 12 18
Sapling distance										

 $\frac{6}{8}$ $\frac{3}{3}$ $\frac{1}{1}$ $\frac{6}{10}$ $\frac{1}{1}$ $\frac{4}{5}$ $\frac{1}{2}$ $\frac{4}{10}$

POINT RECORD TREES APOSTLE ISLANDS

3274

Point Number	21	22	23	24	25	26	27	28	29	30
<i>Abies balsamea</i>						1				1
<i>Acer rubrum</i>				13		20				1
<i>Acer saccharum</i>	2	20	1						1	1
<i>Betula lutea</i>	2	4	3	4	2	2	2	4	2	2
<i>Betula papyrifera</i>										
<i>Quercus rubra</i>	70		90		40 70 35		45	60 45	25 45 60	
<i>Tsuga canadensis</i>	150 11	45								
<i>Thuja occidentalis</i> <i>Asimina</i>				35 26 35					1	
<i>Thuja americana</i>	14 28	50 40	35 40				45			
<i>Populus</i>			30	55 26 35	18	30 20 30	35 14	30 21	50	20 40 30 60
Tree distance	5- 8- 9- 23-	14- 12- 12- 15-	1 20 11 15	3 5 19- 7-	14- 8 18 13	6 10 4- 17	19 12 7 7	7 12- 14 10-	1 12 17- 23-	5 8 2 20
Sapling distance	3 7 7 8	2 4 7 4	8 8 7 7	6 5 11- 16	4 8 7 5	5 4 9 10	5 4 4 8	3 5 4 7	3 5 9 8	5 11 6 9

 $\frac{7}{2}$ $\frac{1}{1}$ $\frac{6}{11}$ $\frac{2}{2}$ $\frac{4}{7}$ $\frac{8}{17}$

POINT RECORD TREES APOSTLE ISLANDS

3224

Point Number	31	32	33	34	35	36	37	38	39	40	
<i>Abies balsamea</i>				60	1						1/1
<i>Acer rubrum</i>	✓ 14	✓ 1	✓ 1	15		12	✓				3/3
<i>Acer saccharum</i>			17 15	✓ 3	✓ 2	13		13	13	✓ 4	4/5
<i>Betula lutea</i>											
<i>Betula papyrifera</i>											
<i>Quercus rubra</i>		65 80 100 50	35 35	35 25	60	30 20	76 45 35	70		55 60	8/17
<i>Tsuga canadensis</i> <i>ostrea</i>											
<i>Thuja occidentalis</i>											
<i>Filix</i>									21 12	30	2/3
<i>Populus trem</i>	60 110 35				14 40 55		35	19 71	45	25	6/11
Tree distance	3 6 9 11	5 5 12 19	7 11 11 15	6 4 15 17	2 11 12 17	4 8 16 29	6 12 22 9	5 5 9 18	10 7 16 12	5 10 17 23	
Sapling distance	4 8 15	5 4 15	2 4 4	4 6 13 12	11 4 6 10	2 8 5 4	3 6 3 7	3 7 4 5	1 4 6 5	6 9 6 7	

STAND # 3228

T

H

M

SPECIES
AC

|||||
|||||

||||| 104

AB

||||| 18
|||||

CC

|||

||||| 15

SB

/ 1

AR

||||| 13
|||

BA

/ 1

BP

// 2

TA

||| 4

LC

/ 1

PT

/ 1

27

133

STAND # 3224

BROWSE CONDITION BY SPECIES %

SPECIES	T	H	M	L	O	TOTAL
Ac				23.1	76.9	100.0
AB					100.0	100.0
CC				20.0	80.0	100.0
SB					100.0	100.0
AR					100.0	100.0
BA					100.0	100.0
BP					100.0	100.0
TA					100.0	100.0
LC					100.0	100.0
PT					100.0	100.0

% EACH SPECIES CONTRIBUTES TO EACH BROWSE CATEGORY

	Ac	AB	CC	SB	AR	BA	BP	TA	LC	PT	TOTAL
T											
H											
M											
L	88.9		11.1								100.0
O	60.2	13.5	9.0	.8	9.8	.8	1.5	3.0	.8	.8	100.2

% EACH CATEGORY CONTRIBUTES TO TOTAL BROWSE = CATEGORY/160

T	H	M	L	O	TOTAL
			16.9	83.1	100.0

% BROWSE SPECIES

Ac	AB	CC	SB	AR	BA	BP	TA	LC	PT	TOTAL
65.0	11.3	9.4	.6	8.1	.6	1.3	2.5	.6	.6	100.0

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3224
Quadrat No. 1-10

Actaea pachypoda
 Actaea rubra
 Adiantum pedatum
 Allium tricoccum
 Anemone quinquefolia
 Aquilegia canadensis
 Aralia nudicaulis
 Aralia racemosa
 Arisaema atrorubens
 7531 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
 53 Corylus americana
 Corylus cornuta
 Cyripedium acaule
 Diervilla lonicera
 Dirca palustris
 Dryopteris linnaeana
 Dryopteris phegopteris
 Dryopteris spinulosa
 Epifagus virginiana
 Epigaea repens

Fragaria virginiana
 Galium lanceolatum
 9 Galium triflorum
 Gaultheria procumbens
 Gaylussacia baccata
 Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Helianthemum sp.
 Helianthus strumosus
 Hepatica acutiloba
 Hepatica americana
 Impatiens biflora
 Linnaea borealis
 7 ^{canadensis} ~~Lonicera oblongifolia~~
 Lupinus perennis
 Lycopodium annotinum
 Lycopodium complanatum
 Lycopodium lucidulum
 Lycopodium obscurum
 Lysimachia quadrifolia
 97 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.
 5 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
 53 Trientalis borealis
 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 Viburnum acerifolium
 Viola canadensis
 93 Viola cucullata
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3224
Quadrat No. 11-20

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	11 Galium triflorum	1513 Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
17 11 Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
15 11 Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	191511 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
13 Clintonia borealis	Lycopodium obscurum	11 Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	19 Streptopus roseus
Corallorrhiza maculata	17 15 13 11 Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	17 15 13 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
	11 Lactuca canadensis	

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3224
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	21 Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
272525 Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
272523 Aster macrophyllus	Helianthus strumosus	Fosa 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	21 Lonicera oblongifolia ^{canadensis}	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	27 Streptopus roseus
Corallorrhiza maculata	2321 Maianthemum canadense	Taxus canadensis
Cornus alternifolia	25 Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	2725 Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
27 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	21 Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	25,23 Polygonatum pubescens	Waldsteinia fragarioides

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3224
Quadrat No. 31-40

Actaea pachypoda

Actaea rubra

Adiantum pedatum

Allium tricoccum

Anemone quinquefolia

Aquilegia canadensis

25 Aralia nudicaulis

Aralia racemosa

Arisaema atrorubens

45 35 Aster macrophyllus

Aster sagittifolius

Athyrium angustum

Botrychium virginianum

Brachyelytrum erectum

Carex albursina

Caulophyllum thalictroides

Chimaphila umbellata

Circaea alpina

Circaea latifolia

5 Clintonia borealis

Coptis trifolia

Corallorrhiza maculata

Cornus alternifolia

Cornus canadensis

Cornus rugosa

Corylus americana

20 31 Corylus cornuta

Cypripedium acaule

Diervilla lonicera

Dirca palustris

Dryopteris linnaeana

Dryopteris phegopteris

Dryopteris spinulosa

Epifagus virginiana

Epigaea repens

Fragaria virginiana

Galium lanceolatum

10 Galium triflorum

Gaultheria procumbens

Gaylussacia baccata

Geranium maculatum

Geum canadense

Gnaphalium obtusifolium

Helianthemum sp.

Helianthus strumosus

Hepatica acutiloba

Hepatica americana

Impatiens biflora

Linnaea borealis

15 31 Lonicera ~~oblongifolia~~ ^{canadensis}

Lupinus perennis

Lycopodium annotinum

Lycopodium complanatum

Lycopodium lucidulum

Lycopodium obscurum

Lysimachia quadrifolia

40 Maianthemum canadense

5 Mitchella repens

Mitella diphylla

Mitella nuda

Monotropa uniflora

Myrica asplenifolia

Onoclea sensibilis

Oryzopsis asperifolia

Osmorhiza claytoni

Oxalis montana

Phryma leptostachya

Polygala pauciflora

Polygonatum commutatum

10 Polygonatum pubescens

5 LACTUCA CANADENSIS

Potentilla simplex

Prenanthes alba

10 Pteridium aquilinum

Pyrola elliptica

Pyrola rotundifolia

Pyrola secunda

Ranunculus recurvatus

Rhus radicans

Ribes americanum

Rosa sp.

20 Rubus parviflorus

Rubus (blackberry)

Rubus (dewberry)

Sambucus pubens

Sanguinaria canadensis

Sanicula gregaria

Smilacina racemosa

Smilacina stellata

Smilax ecirrhata

5 Solidago ulmifolia

15 39 Streptopus roseus

Taxus canadensis

Thalictrum dioicum

40 3 Trientalis borealis

Trillium grandiflorum

Uvularia grandiflora

Uvularia sessilifolia

Vaccinium angustifolium

Vaccinium pennsylvanicum

Viburnum acerifolium

Viola canadensis

15 Viola cucullata

Viola pallens

Viola pubescens

Waldsteinia fragarioides

DEER DAMAGE REPORT FORM

Stand No. 3224

142.0 215.0 222.0 245.0													
Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	
1	AC	2-	L	AB	10	O	AC	5	L	AC	11	L	
2	AB	5-	O	AB	5	O	AC	5	L	AC	7	L	
3	AC	5	O	TA	10-	O	AB	6	O	AC	3	O	
4	AC	1-	O	AC	5	L	TA	7	O	AR	6	O	
5	CC	1	O	AC	1	O	BP	1-	O	LC	4	O	
6	AB	2	O	AC	4	L	AC	6	O	CC	2	L	
7	TA	5	O	AC	6	O	BA	4-	O	AC	4	O	
8	AC	1	O	AB	3	O	AC	6	L	AB	3	O	
9	AB	2-	O	AB	4	O	AC	3	O	AC	6	O	
10	AC	3	O	AC	1-	O	AC	3-	O	AR	1-	O	
11	AC	8	O	AC	5-	O	AC	3	O	AC	7	O	
12	AC	3	O	AC	6	L	AC	9	O	AC	11	L	
13	AC	1/2	O	AC	5	O	AC	5-	O	AC	12	O	
14	AC	8	O	AC	7	O	AC	4	O	AC	6	O	
15	AC	8	L	CC	10	O	CC	9	O	AB	14	O	
16	AC	8	O	AC	5	O	AC	7	L	AC	6	O	
17	AC	5	O	AC	10	O	AC	8	L	AC	6	L	
18	AC	4	O	AC	5	L	CC	6-	L	AC	4	L	
19	AC	4	O	CC	5	O	AC	18	O	AC	13	O	
20	AB	3	O	CC	9	O	CC	8	O	CC	9	L	
21	AC	4	O	AR	8	O	AC	9	L	AC	7	L	
22	AC	2	O	AC	6	O	AC	2	O	AC	7	O	
23	AR	3	O	TA	3	O	AR	8	O	BP	6	O	
24	AR	1	O	AR	7	O	AR	6	O	AB	5	O	
25	CC	8	O	AB	7	O	AC	4	O	AR	4	O	
26	SB	3	O	AC	4	O	CC	5	O	CC	6	O	
27	CC	1/2	O	AC	4	O	CC	7	O	AC	7	L	
28	AC	4	O	AC	7	O	AR	4	O	PR	8	O	
29	AC	2	O	AC	3	O	AC	4	O	AC	8	O	
30	AB	1	O	AC	4	O	AB	3	O	AR	7	O	
31	AC	5	O	AC	4	O	AC	6	L	AC	1	O	
32	AC	2	O	AC	4	O	AC	4	O	AC	6	O	
33	AR	4	O	AC	7	O	AC	3	L	AC	8	O	
34	AC	4	O	AC	10	O	AC	4	O	PT	6	O	
35	AC	6	O	AC	1	O	AB	4	O	CC	5	O	
36	AC	4	O	AC	6	O	AC	5	O	AC	3	O	
37	AC	3	O	AC	5	O	AC	4	O	AC	5	O	
38	AB	3	O	AC	2	L	AC	1-	O	AC	3	O	
39	AC	1-	O	AC	3	O	AC	5	O	AB	6	O	
40	AC	3	O	AC	4	L	AC	5	L	AC	3-	O	824.0

TA *Tilia Americana*
 LC *Lonicera canadensis*
 SB *Saley Belgiana*

Ave. Dist 5.15
 Browse per acre 1,642.5

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO.

✓ *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

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 pennsylvanica
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
Cypripedium acaule
Cypripedium pubescens
Cystopteris fragilis
Danthonia spicata
Dentaria diphylla
Desmodium glutinosum
Desmodium nudiflorum
Dicentra canadensis
Dicentra cucullaria
 ✓ *Diervilla lonicera*
Dirca palustris
 ✓ *Dryopteris linneana* *crisata*
Dryopteris phegopteris
 ✓ *Dryopteris spinulosa*
Epifagus virginiana
Epigaea repens
Equisetum arvense
Erythronium americanum
Fragaria virginiana
Galium aparine
Galium boreale
Galium circaeans
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*

Data Form No. 17 (P.2)

Melampyrum lineare
 ✓ Mitchellia 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

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: