



LIBRARIES

UNIVERSITY OF WISCONSIN-MADISON

Site 3211: Outer Island #13, Ashland County. 1956-08-6

[s.l.]: [s.n.], 1956-08-6

<https://digital.library.wisc.edu/1711.dl/PINA2TCOCS3DX8M>

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. 3211 ✓

Name: OUTER ISLAND # 13

Locality: SOUTH

County: ASHLAND

T:

R:

Sec:

Date: 8-6-56

Observers: COTTAM, HABECK, VOGL

Size of Stand 80 ACRES

Size of Area Sampled: 40 ACRES

Forest Type: PINUS STROBUS - PINUS RESINOSA

Soil Type:

Topography: LEVEL WITH SOME DUNES

Slope:

Directions

Condition of Stand: THIS IS A PINE STAND, ON THE SANDY SOUTH POINT. IT HAD BEEN CUT, AND ALSO BURNED AND IT MAY HAVE BEEN REPEATEDLY BURNED. MANY OPEN AREAS WERE COVERED ONLY BY LICHENS.

Open Grown Trees:

% Canopy:

Stamps:

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									

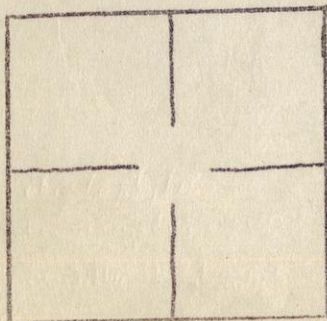
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	5"	LICHENS - SEDGES IN OPEN NEEDLES - VARIABLE
A ₁	1 1/2"	SANDY - BLACK
A ₂	1"	SANDY - LIGHT
B		RED SAND

Parent Material:

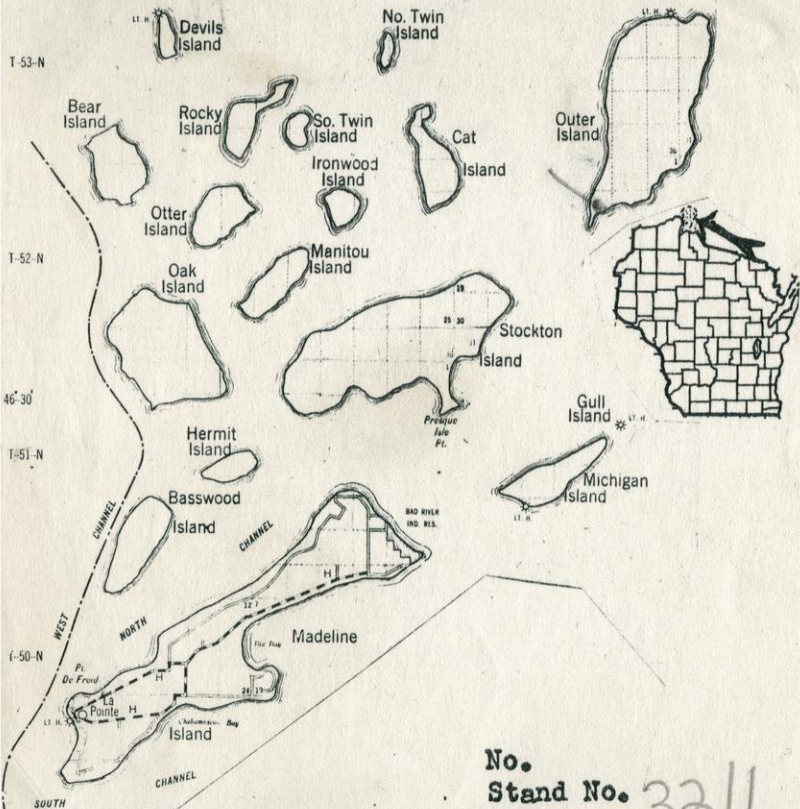
Map:



LIGHT OUT - 180 HI SCALE
LIGHT IN - 92 HI SCALE

Northern WISCONSIN
ASHLAND County

**APOSTLE ISLANDS in
LAKE SUPERIOR**



No.
Stand No. 3211
Date:

Collected by

Grant Cottam
Richard J. Vogl

Northern Pine-Hardwoods

9516014515

6168 156

Station Number: 3211

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	3			47	28	17.9			3.2	1.9	.8	5.9	
Acer rubru	1	1	1			40	5	3.2			1.1	.6	.6	2.3	
A. sacchar															
A. spicatu															
Betula lut															
B. papyrif	20	29	29			742	15	9.6			21.1	18.1	12.0	51.2	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank	7	108	2			510	6	3.8			7.4	6.2	8.3	21.9	
P. resinosa	30	55	47	8		2400	38	24.4			31.6	34.4	38.9	104.9	
P. Strobus	34	62	57	5		2429	64	41.0			35.8	38.8	39.4	114.0	
Populus ba															
P. grandid								99.9			100.2	100.0	100.0	300.2	
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															

AVE. DIST. BTW'N TREES: 21.0
Ave. Sap. Dist. 18.3

AVE B. A.: 38.6

TREES/ACRE: 98.8
Sap/17 130.1

DOM./ACRE: 3813.7
26.48 58 FT

POINT RECORD TREES APOSTLE ISLANDS

3211

Point Number	1	2	3	4	5	6	7	8	9	0
Abies balsamea			12							
Acer rubrum			1						2	
Acer saccharum										
Betula lutea										
Betula papyrifera	25 21	15								
Quercus rubra PINUS BARKSIANA					30 100	28 100		45		
Tsuga canadensis						1 2				
Thuja occidentalis										
PINUS STROBUS	14 120	15 25	30 45	15	210		26	15 21	35	30 30 12 29.2
PINUS RESINOSA		50	35	13 20 14	60	35 25	13 14 26	14	29 27 25	
		1	2	2	2		2	2	1	1
Tree distance	16 19 8 38	8 20 22 41	29 43 65 49	14.5 23 23 21	20 37 70 60	37 19 31 47	8 8 10 30	7 5 8.5 10.5	13 7 11.5 28	22 30 22 32
Sapling distance	24 21 46 24	15 11.5 8 29	33 20 37 68	14 14.5 3 22	20 25 32 75	25 50 32 40	4 18 7 6	6 8 8 6	9 24 25 11.5	19 25 33 35

1/1

2/3

3/5

9/16

8/15

POINT RECORD TREES APOSTLE ISLANDS

3211

Point Number	1	2	3	4	5	6	7	8	9	20
<i>Abies balsamea</i>			19							
<i>Acer rubrum</i>		1	1	1	2	2		3	3	2
<i>Acer saccharum</i>										
<i>Betula lutea</i>										
<i>Betula papyrifera</i>				23	13		60		45	
<i>Quercus rubra</i> PINUS BANKSIANA										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
<i>Pinus strobus</i>	30 110 115	65 80 25 19	55 20	65 30 35	50	60		28 40 16	45 12 15	25
<i>Pinus resinosa</i>	30 110 45 30		45		45 23	150 19 23	15 25 20	55		20 30 150
Tree distance	23 23 10 26	16 28 8.5 16	7 9 24 16	17 2 4 12.5	4 10.5 6 10.5	11 18 8.5 14.5	11.5 18 24 17	13.5 23 14.5 7	4 18 19 10.5	29 10 23 26
Sapling distance	12 42 9 27	33 11 17 28	8 23 26 4	4.5 5.5 4 13	8.5 4 9 7	6 11.5 10 23	7.5 8.5 9 14	7.5 20 6 6	5 14 16 14	7 18 8.5 7.5

1/1

4/4

8/18

7/17

POINT RECORD TREES APOSTLE ISLANDS

3211 ✓

Point Number	21	22	23	24	25	26	27	28	29	30
<i>Abies balsamea</i>			2		1	2	16		1	
<i>Acer rubrum</i>										
<i>Acer saccharum</i>										
<i>Betula lutea</i>										
<i>Betula papyrifera</i>	30		23 23	25	60	15	40 17	14		20
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
<i>Pinus strobus</i>	12	13 15	35		55 50	20 30	25	40 15 15	24 12 13	25
	3	2		2	2	2	4	2	3	
<i>Pinus resinosa</i>	15 30	26 15	45	28 16 70	110	100			16	90 115
	1	2	1	2				1		
Tree distance	23 38 42 38	23 6 34 27	7 14 23 11	36 28 32 35	24 13 17 16	23 13 25 27	12 20 40 34	32 14 40 46	16 23 5 7	20 33 28 40
Sapling distance	14 21 28 29	11 9 16 7	33 11 7 14	19 23 31 24	12 7 20 20	7 28 16 29	16 6 21 46	40 44 26 44	3 7 5 5	21 19 17 34

41

8/10

9/16

8/13

POINT RECORD TREES APOSTLE ISLANDS

3211

Point Number	31	32	33	34	35	36	37	38	39	40
<i>Abies balsamea</i>			1							
<i>Acer rubrum</i>			40							
<i>Acer saccharum</i>	2	1								
<i>Betula lutea</i>										
<i>Betula papyrifera</i>	20 35 1	40 18 45 3	18 13 2	14 18	20	20 12	1			
<i>Quercus rubra</i>						30	30	12		75
<i>Pinus Banksiana</i>						1	2	60		
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
<i>Pinus strobus</i>	21 1	21	13 1	13 4	29 80 18 3		210 95 1	710 4	50 15 2	2
<i>Pinus resinosa</i>	30			24		150 1	60 2	26 1	24 17 2	75 35 29 2
Tree distance	13 19 18 9	12 14 16 7	16 28 24 15	12.5 17 24 6	7 10 13 28	24 32 21 10	33 50 33 56	14 17.5 15 50	11 11 9 27	14 14 12 21
Sapling distance	10 9 13 9	7 8 12 20	8 14 9 9	7 11 10 24	6 6 4 7	30 26 36 24	29 10 13 55	27 34 41 40	5 12 10 23	17 19 6 23

7

6/12

4/3

8/12

7/10

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3211
Quadrat No. 3160
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
Corylus cornuta
Cypripedium acaule
Diervilla lonicera
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
Dryopteris spinulosa
Epifagus virginiana
Epigaea repens

Fragaria virginiana
Galium lanceolatum
Galium triflorum
7 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
Lycopodium obscurum
Lysimachia quadrifolia
9 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

1 Potentilla ^{tridentata} simplex
Prenanthes alba
9 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
7, 1 Vaccinium angustifolium
9 Vaccinium ^{myrtilloides} pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

9, 7, 4, 3, 1 *Antrostaphylos* [✓] *virginica*
1 *Comandra* *umbellata*
1 *Delanphyllum* *lineare*

3 *Artemisia* *canadensis*
4, 3 *Panicum*
4 *Hudsonia*

1 grass

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

 Stand No. 3211
 3160
 Quadrat No. 10-20

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	19,17 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	13 Rubus (dewberry)
Brachyelytrum erectum	19,15,13 Linnaea borealis	Sambucus pubens
13 Carex albursina SP	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	19,17,15,13 Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
19 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	19,15,13,11 Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	17,15,13 MYRTILLODIES 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
17 Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

14, COMMANDRA UMBELLIFERA

17,11, VAIGROPYRON

17,11, ARCTOSTAYLOS UWI-URS1

19,17,15, MELAMPHYRUM LINERAE

19 AMELANCHIER

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

 3211
 Stand No. 3160
 Quadrat No. 20-30

Actaea pachypoda	Fragaria virginiana	21 ^{tridentata} 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	23 Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	29 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	29 27 25, 23 Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	29 Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	25 Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	29 27 25 23 Vaccinium pennsylvanicum - ^{impetiale}
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
27 Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides
29 25, 23, 21 Arctostaphylos uva-ursi	21 Juniperus communis	29 Amelanchier
24 "Agropyron"	21 Yellow Compositae	21 "Agrostis"
23 Commanandra umbellata	29 27 25, 23 Amelanchier	

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3211
Quadrat No. ~~3160~~
31-40

TRIDENATA

- 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
- 5 Carex albursina SP
- Caulophyllum thalictroides
- Chimaphila umbellata
- Circaea alpina
- Circaea latifolia
- Clintonia borealis
- Coptis trifolia
- Corallorrhiza maculata
- Cornus alternifolia
- 10 33 Cornus canadensis
- Cornus rugosa
- Corylus americana
- Corylus cornuta
- Cypripedium acaule
- Diervilla lonicera
- Dirca palustris
- Dryopteris linnaeana
- Dryopteris phegopteris
- Dryopteris spinulosa
- Epifagus virginiana

- Fragaria virginiana
- Galium lanceolatum
- Galium triflorum
- 5 Gaultheria procumbens
- Gaylussacia baccata
- Geranium maculatum
- Geum canadense
- Gnaphalium obtusifolium
- Helianthemum sp.
- Helianthus strumosus
- Hepatica acutiloba
- Hepatica americana
- Impatiens biflora
- 25 35 Linnaea borealis
- Lonicera oblongifolia
- Lupinus perennis
- Lycopodium annotinum
- Lycopodium complanatum
- Lycopodium lucidulum
- Lycopodium obscurum
- Lysimachia quadrifolia
- 60 39 35 31 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

- 10 Potentilla simplex
- Prenanthes alba
- 15 Pteridium aquilinum
- Pyrola elliptica
- Pyrola rotundifolia
- Pyrola secunda
- Ranunculus recurvatus
- Rhus radicans
- Ribes americanum
- 10 33 Rosa sp.
- Rubus parviflorus
- Rubus (blackberry)
- 5 Rubus (dewberry)
- Sambucus pubens
- Sanguinaria canadensis
- Sanicula gregaria
- Smilacina racemosa
- Smilacina stellata
- Smilax ecirrhata
- Solidago ulmifolia
- Streptopus roseus
- Taxus canadensis
- Thalictrum dioicum
- 5 Trientalis borealis
- Trillium grandiflorum
- Uvularia grandiflora
- Uvularia sessilifolia
- 45 35 33 Vaccinium angustifolium
- 39 37 33 31 Vaccinium pennsylvanicum
- Viburnum acerifolium
- Viola canadensis
- Viola cucullata
- Viola pallens
- Viola pubescens
- Waldsteinia fragarioides

3739 15 35 Epigaea repens
 36 33 31 Arctostaphylos 80 ✓
 31 31 Comandra umbellata 25 ✓
 39 33 Potentilla Tridantata 10 ✓
 3735, 33 Agropyron 30 ✓
 GRASS 5
 ARTIMISIA CANADENSIS 5
 HUDSONIA 5
 YELLOW COMPOSITE 5
 AGROSTIS 5
 39 35 31 Melampyrum 55 ✓
 35 33 Arnica montana 20 ✓
 37 Panicum 15 ✓
 39 Juniper 10 ✓

Species	Count	Rel. Dens.	Preference	Value
Abies balsamea 	18	11.3	3	33.9
Acer rubrum	3	1.9	1	1.9
A. saccharum			3	
A. spicatum			2	
Alnus rugosa			4	
Amelanchier sp. 	19	11.9	2	23.8
Berberis Thu.				
Betula lutea			2	
B. papyrifera 	4	3.8	3	11.4
Cornus rugosa				
C. stolonifera			2	
Corylus cornuta			3	
Diervilla Lon.			3	
Fraxinus ameri.			3	
F. nigra			2	
Gaylussacchia b.			3	
Larix laricina			4	
Ledum groenlandicum			3	
Lonicera canad.			2	
L. oblongifolia				
Nemopanthus m.			3	
Ostrya virginiana			4	
Picea glauca			4	
P. mariana			4	
Pinus Strobus 	48	30.0	2	60.0
P. banksiana 	5	3.1	2	6.2
P. resinosa 	26	16.3	3	48.9
J. communis 	24	15.0	4	60.0
Salix 	7	4.4	3	13.2

Species	Count	Rel. Dens.	Preference	Value
Populus grandid.			3	
P. tremuloides			3	
Prunus pennsyl. <u>////</u>	4	2.5	2	5.0
P. virginiana			3	
Quercus rubra			3	
Ribes americanum			2	
Ribes hudsoni.				
Rubus blackberry			3	
R. dewberry			2	
R. parviflorus			3	
R. raspberry			3	
Sambucus pubes.			2	
Sorbus americana			1	
Taxus canadensis			1	
Thuja occident.			1	
Tsuga canadensis			1	
Vaccinium angust.			2	
V. myrtilloides			2	
TOTAL	160			2643

Extent of Browse	Count	Rel. D. Count	Weight	Value
O			0	
I			1	
M			2	
H			3	
T			4	
TOTAL				

Ave distance 11.34 Meanarea _____ Browse per acre 338.75

DEER DAMAGE REPORT FORM

Stand No. 3211

349.

409.5

485.

571

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	JC	6		PS	16		PS	10.5	10.3	BP	18	
2	AM	6		AM	7		PS	8		JC	8	
3	PR	47		JC	23		PS	18		JC	33	
4	PR	4		PS	8		AM	10		PR	14.5	
5	PB	21		PS	20		JC	27		PB	60	
6	SAL	11		PS	15		BP	17		PS	15	
7	PS	6		PP	4		AB	7		JC	12.5	
8	PS	4		PS	7		AR	7		SAL	10	
9	JC	4		PR	9.5		SAL	13		JC	7	
10	JC	5		JC	16		JC	6		PS	21	
11	PR	12		JC	7		PP	9		JC	8	
12	SAL	4		AM	6		AM	5.5		SAL	5	
13	PS	5.5		SAL	9		SAL	4		JC	8	
14	PS	4		AB	4		AM	3		AB	13	
15	AB	4		AR	9.5		AB	4		AM	10	
16	PR	6		PR	18		PS	6		PS	7	
17	PR	2		PR	12		PR	6		PR	8.5	
18	AB	6		AB	6		PS	12		PR	7.5	
19	AB	4		AB	5		PS	5		PS	14	
20	PS	8.5		AB	7.5		AB	8.5		AB	8	
21	PR	14		PS	13		JC	6		PS	29	
22	PS	6		PS	7		PS	10		AM	8	
23	AM	5		AB	7		PR	18		BP	7	
24	PR	19		PR	23		PS	31		PS	29	
25	PS	3		AB	7		AB	7		BP	20	
26	AM	4		PP	6		PP	3		AM	9	
27	PB	11		PS	6		BP	19		JC	24	
28	AM	7		JC	26		JC	32		JC	16	
29	PS	3		PR	2		PS	5		PS	6	
30	AR	18		PS	11		PS	7		PR	24	
31	AP	13		PS	9		AM	2		PS	8	
32	AM	5		PS	6		PS	3		AM	10	
33	AM	3		AM	3		PS	7		AM	7	
34	PS	3		AM	3		AB	3		PS	8	
35	PS	6		PS	6		PS	4		PP	7	
36	PB	8		PS	7		JC	19		BP	36	
37	PB	36		JC	19		PR	10		PB	21	
38	PR	7		PR	17		JC	6		JC	7	
39	PS	5		PR	11		PS	12		PR	12	
40	JC	3		PS	12		PR	17		PR	6	

1814.5

JC - JUNIPERUS COMUNISA
 PR - PINUS RESINOSA
 SAL - SALIX
 PB - PINUS BANKSANIA

Ave. dist. 11.34
 Browse per acre 338.75

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3211

X *Abies balsamea*
 X *Acer rubrum*
Acer saccharum
Acer spicatum
 X *Amelanchier* sp.
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
 X *Pinus banksiana*
 X *Pinus resinosa*
 X *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
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
 X *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
 X *Chiogenes hispidula*

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

Galium lanceolatum
Galium triflorum
 X *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
 X *Linnaea borealis*
Lonicera canadensis
Lonicera hirsuta
Lonicera oblongifolia
Lonicera prolifera
Luzula multiflora
Lycopodium annotinum
 X *Lycopodium clavatum*
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
Lycopodium tristachyum
Lycopus americanus
Lycopus uniflora
Lysimachia quadrifolia
 X *Maianthemum canadense*

Data Form No. 17 (P.2)

- | | | |
|---|----------------------------|--|
| X 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 | X Taxus canadensis |
| Myrica asplenifolia | Rhus typhina | Thalictrum dioicum |
| Onoclea sensibilis | Ribes americanum | Tiarella cordifolia |
| Oryzopsis asperifolia | Ribes cynosbati | X Trientalis 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 | X Vaccinium angustifolium |
| Parietaria pennsylvanica | Rubus - blackberry | X Vaccinium ^{MYRTILLOIDES} pennsylvanicum |
| Parthenocissus vitacea | Rubus - dewberry | Viburnum acerifolium |
| Pedicularis lanceolata | X 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 | Viola incognita |
| Polygonatum commutatum | Schizachne purpurascens | Viola pallens |
| Polygonatum pubescens | Scutellaria lateriflora | Viola pubescens |
| X Potentilla simplex ^{TRICENDATA} | Shepherdia canadensis | Vitis aestivalis |
| Prenanthes alba | Smilacina racemosa | Vitis riparia |
| Pteretis nodulosa | Smilacina stellata | Waldsteinia fragarioides |
| X Pteridium aquilinum | Smilax ecirrhata | Zanthoxylum americanum |

Additional Species:

- X JUNIPERIS COMMUNIS VAR. DEPRESSA
- X SALIX
- X CO MANDRA UMBELLATA
- X GRASS
- X AR. TIMISIA CAUDATA
- X PANICUM
- X HUDSONIA
- X ROSA
- X Oenothera biennis