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Site 3210: Outer Island #12, Ashland County. 1956-08-5

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3210 ✓

Name: OUTER ISLAND #12

Locality: NORTH (LIGHTHOUSE)

County: ASHLAND

T:

R:

Sec:

Date: 8-5-56

Observers: COTTAM, HABECK, & VOGL

Size of Stand 20 ACRES

Size of Area Sampled: 20 ACRES

Forest Type: BETULA LUTEA - ACER SAC.

Soil Type:

Topography: LEVEL

Slope:

Directions E-N-W-S

Condition of Stand: NO EVIDENCE OF CUTTING PRESENT, STAND WAS IN VIRGIN CONDITION. IT WAS LIMITED BY LOGGING ROAD ON TWO SIDES. AN ABUNDANCE OF ACER SACHARUM SEEDLINGS AND SAPLINGS. IT WAS LOCATED DUE SOUTH OF LIGHTHOUSE ON LEFT OR EAST SIDE OF ROAD

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									

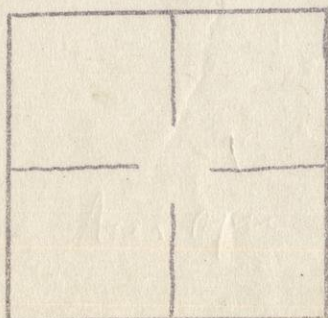
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1"	Deciduous leaves
A ₁	1" - 2"	Black Silty
A ₂	2"	Dark Brown sandy with clay
B	3"	Light " - More sand than A ₂

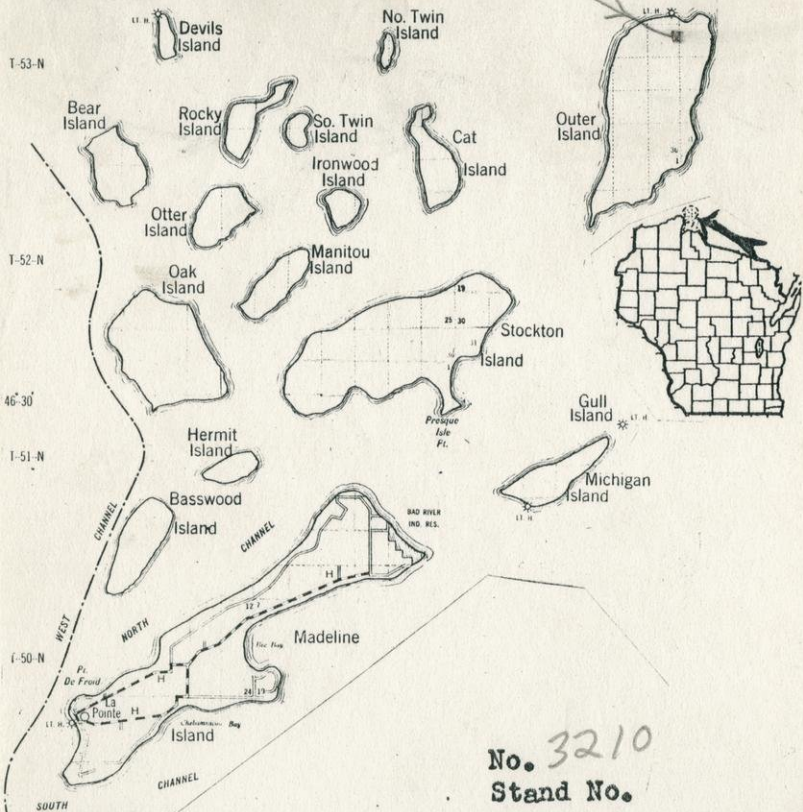
Parent Material: Total Profile 10"

Map:



Northern WISCONSIN ASHLAND County

APOSTLE ISLANDS in LAKE SUPERIOR



No. 3210
Stand No.
Date:

Collected by

Grant Cottam
Richard J. Vogl

Northern Pine-Hardwoods

Station Number: 3210

#Trs. 159

106 159 58 71 30 31.5 160

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	6	6	5	1		228	2	1.3			5.7	3.8	.7	10.2	
Acer rubru	16	21	10	8	3	3473	3	1.9			15.1	13.2	11.0	39.3	
A. sacchar	27	45	15	28	2	6102	81	50.6			25.5	28.3	19.4	73.2	
A. spicatu															
Betula lut	31	55	18	24	13	11825	16	10.0			29.2	34.6	37.5	101.3	
B. papyrif															
Carpinus c															
Fagus gran															
Ostrya vir	1	1		1		110	1	.6			.9	.6	.3	1.8	
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra	4	4		3	1	1060	2	1.3			3.8	2.5	3.4	9.7	
Tilia amer															
Tsuga cana	19	25	8	6	11	8644	48	30.0			17.9	15.7	27.4	61.0	
Thuja occi	1	1	1			55	3	1.9			.9	.6	.2	1.7	
Ulmus amer															
U. fulva															
Pyrus Am	1	1	1			19	4	2.5			.9	.6	.1	1.6	
								100.1			99.9	99.9	100.0	299.8	

AVE. DIST. BTW'N TREES: 16.0

AVE. B. A.: 198.2

TREES/ACRE: 170.2

DOM./ACRE:

AVE. SAPLING DIST. 23.0

82.3

33733.6
234.3

POINT RECORD TREES APOSTLE ISLANDS

3210

Point Number	1	2	3	4	5	6	7	8	9	10
Abies balsamea	120									
Acer rubrum			25 90					38		
Acer saccharum	140 110 58 14	50 40 100 12	120 210 14	40 3	13 2	205			152 2	95 30 165
Betula lutea		365		37 25 110	540 30 1	135 20 1	235 220 15	95 33	110	
Betula papyrifera										
Quercus rubra						250				
Tsuga canadensis					980 1		45 3	43 3	265 70 2	165 3
Thuja occidentalis										
Tree distance	11 16 23 35	2 12 12 40	16 11 16 25	14 2 26 30	8 12 32 15	3 8 21 34	11 26 4 16	17 12 10 8	5 4 23 14	4 17 18 13
Sapling distance	5 16 42 30	18 35 48 50	15 22 30 50	30 23 9 38	11 8 25 40	5 4 9 1	16 24 25 26	10 10 18 24	35 29 31 23	26 25 42 29

36875

3210

Point Number	1	2	3	4	5	6	7	8	9	20
<i>Abies balsamea</i>										
<i>Acer rubrum</i>	130	425 1					65 150 27		190	80 225
<i>Acer saccharum</i>	240 1	85 1							45 230 3	
<i>Betula lutea</i>	600 2		210	65 90 2	65 230 73 90	110 12 210	235 1	490 140	375 1	80
<i>Betula papyrifera</i>										
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>	760 1	500 110 2	630 12 17	17 13 2		255 3		430 480		155 3
<i>Thuja occidentalis</i>										
<i>Pyrus Aher</i>										
Tree distance	16 31 26 21	13 25 33 18	4 13 17 14	7 7 14 13	21 24 16 17	8 5 12 14	5 3 7 9	10 12 21 25	25 33 22 32	5 5 16 27
Sapling distance	24 36 27 35	20 24 16 31	23 25 23 24	26 30 16 2	24 12 12 20	5 20 10 19	8 17 26 50	19 30 21 40	18 40 31 30	6 12 27 10

POINT RECORD TREES APOSTLE ISLANDS

3210

Point Number	31	32	33	34	35	36	37	38	39	40
Abies balsamea			27							
Acer rubrum	350		40	240					440 55	35
Acer saccharum	130 160	250		75 75	100 330 140	660 120 150	80 150	55 15 270	140	
Betula lutea		320 35	580 120	480			480		470	210 210
Betula papyrifera										
Quercus rubra										
Tsuga canadensis	350	160		27	27		560			
Thuja occidentalis										55
Ostrya						110				
Tree distance	10.5 3.0 17.0 22.5	7.0 20.0 19.0 26.0	21.0 6.0 7.5 15.5	4.5 18.0 16.5 16.5	8.5 16.0 21.0 35.0	9.0 23.0 21.0 25.0	16.0 10.0 15.5 25.0	4.5 17.0 8.0 16.0	35.0 7.0 10.0 35.0	5.0 8.0 11.0 15.0
Sapling distance	4.0 12.0 25.0 31.0	20.0 20.0 28.0 54	12.0 21.0 20.0 21.5	8.5 11.5 17.0 42.0	19.5 34.0 27.0 24.0	7.5 13.0 7.0 30.0	18.0 22.0 55.0 50.0	20.0 38.0 32.0 60.0	28.0 15.0 40.0 36.0	16.0 11.0 60.0 25.0

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. ~~3161~~ 3210
 Quadrat No. 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*931 *Clintonia borealis**Coptis trifolia**Corallorrhiza maculata**Cornus alternifolia**Cornus canadensis**Cornus rugosa**Corylus americana*3 *Corylus cornuta**Cypripedium acaule**Diervilla lonicera**Dirca palustris**Dryopteris linnaeana**Dryopteris phegopteris*9 *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**Lycopodium annotinum**Lycopodium complanatum*7531 *Lycopodium lucidulum*31 *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*31 *Streptopus roseus*9753 *Taxus canadensis**Thalictrum dioicum*93 *Trientalis borealis**Trillium grandiflorum**Uvularia grandiflora**Uvularia sessilifolia**Vaccinium angustifolium**Vaccinium pennsylvanicum**Viburnum acerifolium**Viola canadensis**Viola cucullata**Viola pallens**Viola pubescens**Waldsteinia fragarioides*9531 *Aar spic*

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3210
Quadrat No. 316

11-20

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

1917 Clintonia borealis

Coptis trifolia

Corallorrhiza maculata

Cornus alternifolia

Cornus canadensis

Cornus rugosa

Corylus americana

17 Corylus cornuta

Cyripedium acaule

Diervilla lonicera

Dirca palustris

Dryopteris linnaeana

Dryopteris phegopteris

15 Dryopteris spinulosa

Epifagus virginiana

Epigaea repens

19171511 A. or spic

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

Lycopodium annotinum

Lycopodium complanatum

19171511 Lycopodium lucidulum

17 Lycopodium obscurum

Lysimachia quadrifolia

1717 Maianthemum canadense

17 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

19151311 Taxus canadensis

Thalictrum dioicum

Trientalis borealis

Trillium grandiflorum

Uvularia grandiflora

Uvularia sessilifolia

Vaccinium angustifolium

Vaccinium pennsylvanicum

Viburnum acerifolium

17 Viola canadensis macrocarpa

Viola cucullata

Viola pallens

Viola pubescens

Waldsteinia fragarioides

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

 Stand No. ~~3161~~
 Quadrat No. 3210
 21-38

<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> 23	<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> 23, 25, 27	<i>Smilax ecirrhata</i>
<i>Clintonia borealis</i> 21, 23, 25, 27	<i>Lycopodium obscurum</i> 21, 23, 25	<i>Solidago ulmifolia</i>
<i>Coptis trifolia</i> (29)	<i>Lysimachia quadrifolia</i>	<i>Streptopus roseus</i> 25, 27, 29
<i>Corallorrhiza maculata</i>	<i>Maianthemum canadense</i> 25	<i>Taxus canadensis</i> 21, 23, 25, 27
<i>Cornus alternifolia</i>	<i>Mitchella repens</i> 29	<i>Thalictrum dioicum</i>
<i>Cornus canadensis</i>	<i>Mitella diphylla</i>	<i>Trientalis borealis</i> 25
<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> 21, 25	<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>

Asarum 23, 25, 27, 29

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. ~~3161~~Quadrat No. ~~3210~~

30-40

Actaea pachypoda
 Actaea rubra
 Adiantum pedatum
 Allium tricoccum
 Anemone quinquefolia
 Aquilegia canadensis
 20 Aralia nudicaulis 35, 39
 Aralia racemosa
 Arisaema atrorubens
 Aster macrophyllus
 Aster sagittifolius
 Athyrium angustum
 Botrychium virginianum
 Brachyelytrum erectum
 Carex albursina
 Caulophyllum thalictroides
 Chimaphila umbellata
 Circaea alpina
 Circaea latifolia
 10 Clintonia borealis 31, 35, 37, 39
 Coptis trifolia
 Corallorrhiza maculata
 Cornus alternifolia
 Cornus canadensis
 Cornus rugosa
 Corylus americana
 20 Corylus cornuta 31, 35
 Cypridium acaule
 Diervilla lonicera
 Dirca palustris
 Dryopteris linnaeana
 Dryopteris phegopteris
 20 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
 Lycopodium annotinum
 Lycopodium complanatum
 80 Lycopodium lucidulum 31, 35, 37, 39
 30 Lycopodium obscurum
 20 Lysimachia quadrifolia
 15 Maianthemum canadense 37
 15 Mitchella repens 37
 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
 30 Streptopus roseus 37
 75 Taxus canadensis 31, 33
 Thalictrum dioicum
 35 Trientalis borealis 31, 33, 37, 39
 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 Viburnum acerifolium
 5 Viola ~~canadensis~~ INCOGNITA
 Viola cucullata
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides

85 Acer sp. 31, 33, 35, 37, 39

Species	Count	Rel. Dens.	Preference	Value
AC <i>Acer sacch</i> <i>Populus grandid.</i> 	31	19.4	3	58.2
AS <i>Acer spic</i> <i>P. tremuloides</i> 	49	30.6	2 2	61.2
<i>Corylus</i> <i>Prunus pennsyl.</i> 	7	4.4	2 3	13.2
<i>P. virginiana</i>			3	
<i>Quercus rubra</i>			3	
<i>Ribes americanum</i>			2	
<i>Ribes hudsoni.</i>				
<i>Rubus blackberry</i>			3	
<i>R. dewberry</i>			2	
<i>R. parviflorus</i>			3	
<i>R. raspberry</i>			3	
<i>Sambucus rubes.</i>			2	
<i>Sorbus americana</i>			1	
 <i>Taxus canadensis</i> 	69	43.1	1	43.1
<i>Thuja occident.</i>			1	
<i>Tsuga canadensis</i> 	4	2.5	1	2.5
<i>Vaccinium angust.</i>			2	
<i>V. myrtilloides</i>			2	
TOTAL	160			178.2

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

Ave distance 2.73

Mean area

Browse per acre

5845.4

DEER DAMAGE REPORT FORM

Stand No. 3210

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	AC	1		AC	3		AC	1-		AC	2	
2	AC	1		AC	2-		TAY	4		TAY	3	
3	CC	3		TAY	2-		CC	3-		CC	3	
4	AS	1/2		TAY	1		TAY	1		TAY	2-	
5	AS	1-		TAY	2		AS	3		TAY	3	
6	AS	3		TC	4		TAY	1		TC	5	
7	AS	1		TAY	2-		AS	1		TAY	2	
8	AS	1		AS	5		AS	4		TC	5	
9	AS	2-		TAY	9		TAY	7		TAY	6	
10	TAY	2-		TAY	1		TAY	2		TAY	3	
11	TAY	4-		TAY	3		TAY	1 1/2		CC	3	
12	AC	1		AS	2		TAY	3		TAY	1-	
13	TAY	1-		AS	1		TAY	1-		TAY	2	
14	AS	1/2		AS	4		AS	1		AS	3	
15	AS	1		AS	2		TAY	3		AS	3	
16	TC	5		AS	5		AS	4-		AS	6	
17	AS	1-		AC	1-		AS	3		AS	1-	
18	TAY	1		TAY	1		TAY	4		TAY	3	
19	TAY	1-		AS	2		AS	2-		AS	3	
20	AS	2		AS	3		TAY	3		AS	2-	
21	TAY	1		TAY	3		TAY	2.5		TAY	3	
22	TAY	2		TAY	3		TAY	2.5		TAY	4	
23	AS	3		TAY	3		TAY	2.5		AS	6	
24	TAY	2.5		TAY	2		TAY	3		TAY	1.5	
25	TAY	3		AS	2		TAY	2		TAY	2.5	
26	AS	3		AS	2.5		AC	12.5		AC	10.5	
27	AC	1		TAY	2		AC	5		AC	4	
28	AS	3		AC	2		AC	2		AC	1	
29	AC	3		CC	3		TAY	2		AC	2	
30	AC	1.5		AC	2		AC	2		AC	1.5	
31	TAY	4		TAY	5		CC	4		TAY	2	
32	AS	1		AC	3.5		AC	2.5		AS	2	
33	TX	.5		AS	3		AS	3		AS	9.5	
34	AC	3.5		AC	2		TAY	2		AC	1	
35	AC	2.5		AS	4		CC	4.5		AC	3.5	
36	AC	2.5		AS	.5		TAY	2		AS	1	
37	AS	2.5		AC	5		AS	6		AS	7	
38	TAY	.5		TAY	1		TAY	2		TAY	1.5	
39	TAY	.5		TAY	.5		TAY	2		AS	3	
40	TAY	2		TAY	3		TAY	3		TAY	4	

ave. dist. 2.73
Browse per acre 5845.4

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
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
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 americana*

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
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*
 ✓ *Dryopteris spinulosa*
Epifagus virginiana
Epigaea repens
Equisetum arvense
Erythronium americanum
Fragaria virginiana
Galium aparine
Galium boreale
Galium circaeans
Galium concinnum

Dryopteris dispersa ✓

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

Melampyrum lineare
 X 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

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
 X Streptopus amplexifolius
 Streptopus roseus
 X 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
 X Viola incognita
 Viola pallens
 Viola pubescens
 Vitis aestivalis
 Vitis riparia
 Waldsteinia fragarioides
 Zanthoxylum americanum

Additional Species: