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Site 3208: Outer Island #10, Ashland County. 1956-08-4

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3208

Name: OUTER ISLAND #10

Locality: SOUTH EAST

County: ASHLAND

T:

R:

Sec:

Date: 8-4-56

Observers: CUTTAM, HABECK, & VOGL

Size of Stand 20 ACRES

Size of Area Sampled: 20 ACRES

Forest Type: BETULA LUTEA - ACER

Soil Type:

Topography: LEVEL OR SLIGHTLY SLOPING

Slope:

Directions

Condition of Stand: STAND HAD BEEN CUT, BUT IT HAD NOT BEEN BURNED,
AT LEAST THE MAJOR PORTION OF IT.

Open Crown Trees:

% Canopy:

Lit Out
" in105 N 15 E
50 W

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

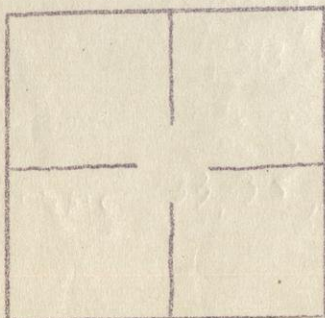
CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1"								
A ₁	1/2"	Black, silty							
A ₂	2"	Pink, sand & clay							
B	6"	Brown " & "							

Parent Material:

Parent Material: Sandstone

Map:



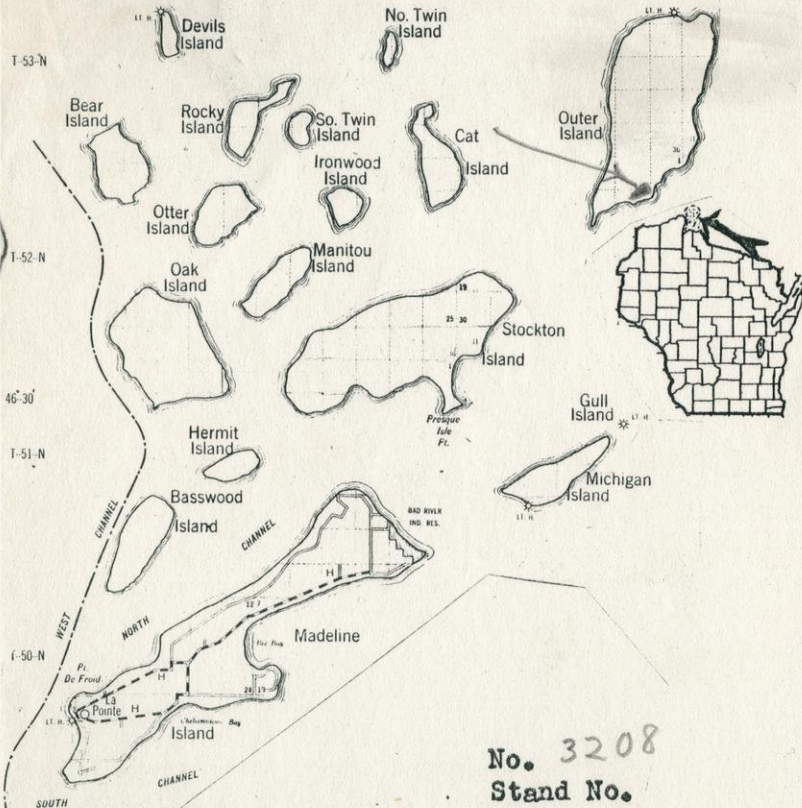
R-3-W

R-2-W

R-1-W

Northern WISCONSIN ASHLAND County

APOSTLE ISLANDS in LAKE SUPERIOR



No. 3208
Stand No.
Date:

Collected by

Grant Cottam
Richard J. Vogl

Northern Pine-Hardwoods

Station Number: 3208

120/60 99 52 9 16.049/60

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	13	14	10	6		974	25	15.6			10.8	10.0	6.1	26.9	
Acer rubru	18	26	18	7	1	2231	18	11.3			15.0	16.3	13.9	45.2	
A. sacchar	19	26	12	14		2718	26	16.3			15.8	16.3	16.9	49.0	
A. spicatu															
Betula lut	31	48	27	13	8	7411	28	17.5			25.8	30.0	46.2	102.0	
B. papyrif															
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen	3	3	3			79	6	3.8			2.5	1.9	.5	4.9	
Quercus el															
Q. rubra	5	5	2	3		295	2	1.2			4.2	3.1	1.8	9.1	
Tilia amer															
Tsuga cana	2	2		2		400	2	1.2			1.7	1.2	2.5	5.4	
Thuja occi	16	21	14	7		1492	45	28.1			13.3	13.1	9.3	35.7	
Ulmus amer															
U. fulva															
Pyrus Am	13	13	13			449	8	5.0			10.8	8.1	2.8	21.7	
								100.0			99.9	100.0	100.0	299.9	

AVE. DIST. BTW'N TREES: 12.8

AVE B. A.: 100.3

TREES/ACRE: 265.9

DOM./ACRE:

Sapling Dist. - 18.5

127.3

26669.8
185.2

POINT RECORD TREES APOSTLE ISLANDS

3208

Point Number	1	2	3	4	5	6	7	8	9	10	
<i>Abies balsamea</i>				85	180						7/2
<i>Acer rubrum</i>		23		190	170	130		145	17		5/5
<i>Acer saccharum</i>			34 220					145	36	17	4/5
<i>Betula lutea</i>	25	180 320	54 110	740	14	12		35 43	47	40 28 18	9/14
<i>Betula papyrifera</i>											
<i>Quercus rubra</i>						140					1/1
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>	21 38	60			40		170 21	50			5/7
<i>Prunella pa</i>	27						17				2/2
<i>Pyrus Am</i>				20		25	12		26		4/4
Tree distance	7 11 16 15	4 5 10 25	5 17 7 10	12 16 26 16	11 13 25 8	12 14 13 20	10 7 11 21	2 14 9 11	7 5 12 13	11 14 9 8	
Sapling distance	1 14 30 21	4 9 35 9	7 11 28 42	17 14 15 20	5 12 10 10	10 17 13 12	4 5 23 11	11 7 11 26	17 26 12 7	9 5 10 17	

POINT RECORD TREES APOSTLE ISLANDS

3208

Point Number	11	12	13	14	15	16	17	18	19	20	
<i>Abies balsamea</i>						195		35			3/3
					1		1	2	2	851	
<i>Acer rubrum</i>	42 15 13 3	30 12		75					18 155 460 265		4/10
<i>Acer saccharum</i>			130 47				100	115		190	4/5
		1							1	2	
<i>Betula lutea</i>	77	15	490 17	15 21	65	380 270	640 340	250 60			8/13
		1		2			1	2	1	1	
<i>Betula papyrifera</i>											
<i>Quercus rubra</i>		24		21							2/2
<i>Tsuga canadensis</i>					250						1/1
<i>Thuja occidentalis</i>					50 140	45	85				3/4
		1	1		2	4	2				
<i>Prunus Pa</i>										35	1/1
<i>Pyrus Am</i>										24	1/1
	1	1		1							
Tree distance	2 7 7 12	6 8 14 13	14 30 21 13	13 9 10 16	13 10 17 10	11 8 14 20	15 23 9 34	3 3 7 22	12 15 19 12	5 14 23 38	
Sapling distance	16 10 7 11	12 4 13 21	17 34 15 35	10 15 7 10	6 2 21 40	7 6 42 34	15 18 17 10	48 42 43 55	22 25 22 42	22 10 26 32	

POINT RECORD TREES APOSTLE ISLANDS

3208

Point Number	21	22	23	24	25	26	27	28	29	30	
<i>Abies balsamea</i>		14 100 1			30 2	90	2	1		73	4/5
<i>Acer rubrum</i>						35 12 1	19		45	24 38	4/6
<i>Acer saccharum</i>		35 23 1	190	122 55	200		14	160 210 145 2	110		7/11
<i>Betula lutea</i>	13 15 1652		80 30	560	19 350		38 20		120 240 2	1	6/12
<i>Betula papyrifera</i>											
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>				1		1					
<i>Thuja occidentalis</i>			55 4	21 3				50		105 1	4/4
<i>Prunus</i>					1					1	
<i>Pyrus Americana</i>	55					80					2/2
Tree distance	7 4 11 3	12 13 8 28	14 9 16 9	13 25 12 20	12 25 9 8	3 8 15 23	18 12 7 6	7 9 7 11	25 13 16 16	4 12 14 14	
Sapling distance	15 19 17 13	18 13 27 28	6 11 2 36	23 22 27 18	13 10 10 14	14 21 11 48	18 42 12 8	18 18 16 40	15 11 17 42	26 21 30 31	

yellow Birch 9'9"

POINT RECORD TREES APOSTLE ISLANDS

3208

Point Number	31	32	33	34	35	36	37	38	39	40	
<i>Abies balsamea</i>		45			14				14	14	4/4
	1	2	1	1	60		1	2	19		
<i>Acer rubrum</i>	160			26	190			17		50	5/5
	1					1		1	1		
<i>Acer saccharum</i>		65	40	150				55			4/5
		1	1	3	2					1	
<i>Betula lutea</i>	240	270	190	280		210	45		210	75	8/9
						15					
<i>Betula papyrifera</i>							1			1	
<i>Quercus rubra</i>		85							25		2/2
<i>Tsuga canadensis</i>			150								1/1
<i>Thuja occidentalis</i>	65				30	70	110	45			4/6
	1					150	95				
					1	2	1	1	2	1	
<i>Prunus Pa</i>	1		1			1	1				
<i>Pyrus Am</i>	25		26		60		12	65		19	6/6
		1									
	2	11.5	11.5	4.0	28.0	6.0	3.0	16.5	3.0	6.0	
	2	13.5	9.5	9.5	17.0	21.0	12.5	18.5	7.0	12.5	
Tree distance	23	16.5	8.5	14.0	14.5	5.0	20.0	18.5	9.0	28.0	
	17	20.0	11.0	16.0	8.0	10.5	14.0	20.0	10.0	10.5	
								9.5			
Sapling distance	25	5.0	8.5	24.0	16.0	12.0	7.0	12.0	11.5	28.0	
	24	15.5	11.5	28.0	30.0	9.0	14.0	11.0	18.0	12.5	
	20	42.0	4.0	35.0	28.0	4.0	4.0	10.5	20.0	16.5	
	27	5.0	21.0	28.0	42.0	10.0	7.0	50.0	10.0	36.0	

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3209

Quadrat No. 3161

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
 973 Clintonia borealis
 Coptis trifolia
 Corallorrhiza maculata
 Cornus alternifolia
 Cornus canadensis
 Cornus rugosa
 Corylus americana
 Corylus cornuta
 Cyripedium acaule
 Diervilla lonicera
 Dirca palustris
 Dryopteris linnaeana
 Dryopteris phegopteris
 51 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
 7 Lycopodium annotinum
 Lycopodium complanatum
 3 Lycopodium lucidulum
 7 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

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
 753 Taxus canadensis
 Thalictrum dioicum
 93 Trientalis borealis
 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 Viburnum acerifolium
 97 Viola canadensis *microphylla*
 Viola cucullata
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides

9753 New sp.

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. ~~3161~~
Quadrat No. ~~3208~~
4-20

Actaea pachypoda

Actaea rubra .

Adiantum pedatum

Allium tricoccum

Anemone quinquefolia

Aquilegia canadensis

11 Aralia nudicaulis

Aralia racemosa

Arisaema atrorubens

Aster macrophyllus

Aster sagittifolius

Athyrum angustum

Botrychium virginianum

Brachyelytrum erectum

Carex albursina

Caulophyllum thalictroides

Chimaphila umbellata

Circaea alpina

Circaea latifolia

15/1 Clintonia borealis

Coptis trifolia

Corallorrhiza maculata

Cornus alternifolia

Cornus canadensis

Cornus rugosa

Corylus americana

19 Corylus cornuta

Cypripedium acaule

Diervilla lonicera

Dirca palustris

Dryopteris linnaeana

Dryopteris phegopteris

15 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

13 Lycopodium lucidulum

15/13 11 Lycopodium obscurum

Lysimachia quadrifolia

19/1 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

11 Streptopus roseus

Taxus canadensis

Thalictrum dioicum

15/11 Trientalis borealis

Trillium grandiflorum

Uvularia grandiflora

Uvularia sessilifolia

Vaccinium angustifolium

Vaccinium pennsylvanicum

Viburnum acerifolium

Viola canadensis

Viola cucullata

Viola pallens

Viola pubescens

Waldsteinia fragarioides

19/13 11 4 or 5 mi

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3161
Quadrat No.

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Allium tricoccum
Anemone quinquefolia
Aquilegia canadensis
Aralia nudicaulis
Aralia racemosa
Arisaema atrorubens
27 25 21 Aster macrophyllus
Aster sagittifolius
Athyrium angustum
Botrychium virginianum
Brachyelytrum erectum
Carex albursina
Caulophyllum thalictroides
Chimaphila umbellata
Circaea alpina
Circaea latifolia
27 25 23 21 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
Gaultheria procumbens
Gaylussacia baccata
Geranium maculatum
Geum canadense
Gnaphalium obtusifolium
Helianthemum sp.
Helianthus strumosus
Hepatica acutiloba
Hepatica americana
Impatiens biflora
Linnaea borealis
25 Lonicera oblongifolia
Lupinus perennis
Lycopodium annotinum
Lycopodium complanatum
25 2 Lycopodium lucidulum
25 2 3 Lycopodium obscurum
Lysimachia quadrifolia
27 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
27 25 21 Streptopus roseus
27 25 23 21 Taxus canadensis
Thalictrum dioicum
27 Trientalis borealis
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

5 23 21 Her spic
27 29

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3161
Quadrat No.

Actaea pachypoda

Actaea rubra .

Adiantum pedatum

Allium tricoccum

Anemone quinquefolia

Aquilegia canadensis

Aralia nudicaulis 5

Aralia racemosa

Arisaema atrorubens

Aster macrophyllus 15

Aster sagittifolius

Athyrium angustum

Botrychium virginianum

Brachyelytrum erectum

Carex albursina

Caulophyllum thalictroides

Chimaphila umbellata

Circaea alpina

Circaea latifolia

31 Clintonia borealis 33, 35, 39, 65

Coptis trifolia

Corallorrhiza maculata

Cornus alternifolia

Cornus canadensis

Cornus rugosa

Corylus americana

Corylus cornuta 5

Cypripedium acaule

Diervilla lonicera

Dirca palustris

Dryopteris linnaeana

Dryopteris phegopteris

Dryopteris spinulosa 33, 20

Epifagus virginiana

Epigaea repens

31 A. repens 33, 35, 39, 80

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 canadensis 5

Lupinus perennis

Lycopodium annotinum 5

Lycopodium complanatum

Lycopodium lucidulum 15, 20

Lycopodium obscurum 35, 35

Lysimachia quadrifolia

Maianthemum canadense 35, 25

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 33, 35, 39, 40

31 Taxus canadensis 33, 35, 37, 90

Thalictrum dioicum

Trientalis borealis 25

Trillium grandiflorum

Uvularia grandiflora

Uvularia sessilifolia

Vaccinium angustifolium

Vaccinium pennsylvanicum

Viburnum acerifolium

Viola canadensis

Viola cucullata

Viola pallens

Viola pubescens

Waldsteinia fragarioides

Viola incognita 35, 15

Species	Count	Rel. Dens.	Preference	Value
AC <i>Acer rostratum</i> IIII	4	2.5	3	7.5
<i>Populus grandid.</i>				
AS <i>Acer spic</i> IIII/IIII/IIII/IIII	20	12.5	3 2	25.0
<i>P. tremuloides</i>				
AD <i>Abies</i> IIII	5	3.1	2 3	9.3
<i>Prunus pennsylv.</i>				
<i>Corylus</i>				
<i>P. virginiana</i> IIII	4	2.5	3	7.5
<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 pubes.</i>			2	
<i>Sorbus americana</i>			1	
<i>Taxus canadensis</i> 33-33-27-29	122	76.3	1	76.3
<i>Thuja occident.</i> IIII	5	3.1	1	3.1
<i>Tsuga canadensis</i>			1	
<i>Vaccinium angust.</i>			2	
<i>V. myrtilloides</i>			2	
TOTAL	160			128.7

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

Ave distance 2.71 Meanarea Browse per acre 5931.4

DEER DAMAGE REPORT FORM

Stand No. 3208

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	TAY	1/2		TAY	1/2		TAY	1/2		TAY	1	
2	TAY	1/2		TAY	1-		TAY	3		TAY	6	
3	TAY	1/2		TAY	1/2		TAY	2-		TAY	2	
4	TAY	0		TAY	1/2		TAY	1/2		TAY	1/2	
5	TO	2		TAY	2		TAY	3-		TAY	4	
6	TAY	1/2		TAY	2-		TAY	6		TAY	3	
7	TAY	3-		AS	2		TAY	4		TAY	3	
8	TAY	2		TAY	5-		HC	7		AB	7-	
9	AS	1/2		AS	5		AC	2-		AS	4-	
10	TAY	2		AB	2-		AS	3-		AS	3	
11	AC	1-		TAY	5		AC	2-		AS	9-	
12	AS	7		AS	5-		AS	5		TAY	12	
13	TAY	1/2		TAY	1/2		TAY	2		TAY	1/2	
14	TAY	3-		TO	5-		TAY	2		TAY	2-	
15	TAY	5		TAY	4-		AS	1		AS	2-	
16	TAY	3		TAY	2		TAY	3-		TAY	11	
17	TAY	1/2		TAY	1/2		AS	2-		TAY	3	
18	TAY	1/2		TAY	1/2		TAY	1		TAY	1/2	
19	TAY	1-		TAY	2		TAY	1/2		TAY	1/2	
20	TAY	1/2		TAY	2-		TAY	2		TAY	2-	
21	AS	1/2		TAY	1/2		TAY	1-		TAY	2	
22	TAY	3-		TAY	4		TAY	3		TAY	2	
23	TO	1		TO	1		CC	5-		AS	7	
24	TAY	1		TAY	1/2		CC	2-		CC	2	
25	AB	3		TAY	6		AS	5-		AS	7	
26	TAY	1/2		TAY	2		AS	6		AS	4	
27	TAY	2		TAY	1		TAY	1		TAY	3	
28	TAY	1/2		TAY	2		TAY	2-		TAY	4-	
29	TAY	2-		TAY	1/2		TAY	1/2		TAY	3	
30	TAY	0		TAY	2-		TAY	1		TAY	7	
31	TAY	2-		TAY	3		TAY	1		TAY	1/2	
32	TAY	5		TAY	7		TAY	8		TAY	4	
33	TAY	3		TAY	4		TAY	3		TAY	2.5	
34	TAY	4		TAY	1.5		TAY	2.5		TO	5	
35	TAY	2-		AB	7		CC	5		TAY	5	
36	TAY	4		TAY	2		TAY	1		TAY	2	
37	TAY	4		TAY	1		TAY	1.5		TAY	1	
38	TAY	.5		TAY	2		TAY	1		TAY	4	
39	TAY	.5		TO	1		AS	5		AB	8.5	
40	TAY	1		TAY	2		TAY	2		TAY	2.5	

434.

96

Ave. dist. 2.71
Browse per acre 5,931.4

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO.

X *Abies balsamea*
 X *Acer rubrum*
 X *Acer saccharum*
 X *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

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
 X *Aralia nudicaulis*
Aralia racemosa
Arctostaphylos uva-ursi
Arisaema atrorubens
Asarum canadense
Asclepias phytolaccoides
Aster cordifolius
Aster lateriflorus
 X *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
 X *Clintonia borealis*
Convolvulus spithameus
Coptis trifolia
Corallorrhiza maculata
Corallorrhiza striata
Cornus alternifolia
 X *Cornus canadensis*
Cornus femina
Cornus rugosa
Corylus americana
 X *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 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
 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*

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

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
 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

Additional Species: