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Site 3209: Outer Island #11, Ashland County. 1956-08-5

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3209

Name: OUTER ISLAND #11

Locality: NORTH (LIGHTHOUSE)

County: ASHLAND

T:

R:

Sec:

Date: 8-5-56

Observers: COTTAM, VOGL, HARECK

Size of Stand 40 ACRES

Size of Area Sampled: 20 ACRES

Forest Type: BETULA LUTEA, THUJA, TSUGA

Soil Type:

Topography: LEVEL

Slope:

Directions

Condition of Stand: THE MAJOR PORTION OF THIS STAND SHOWED NO EVIDENCE OF CUTTING, THIS STAND WAS EAST OF THE LIGHTHOUSE AND BORDERING THE BAY EAST OF THE LIGHT AND THERE WAS A LITTLE CUTTING NEAR THE LIGHT. THE GROUND WAS COVERED WITH SHORT TAXUS IN MOST OF THE STAND.

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.)

A₀ 2" Conifer + HardwoodA₁ 2" Clay-likeA₂ Sandy clay - dark gray - purple tinge

B

P4 #20

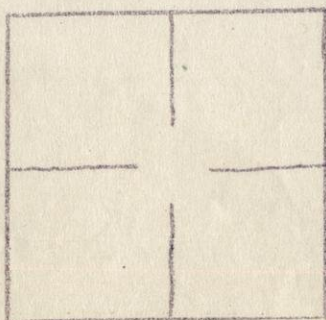
1"

3"

Block, Sandy

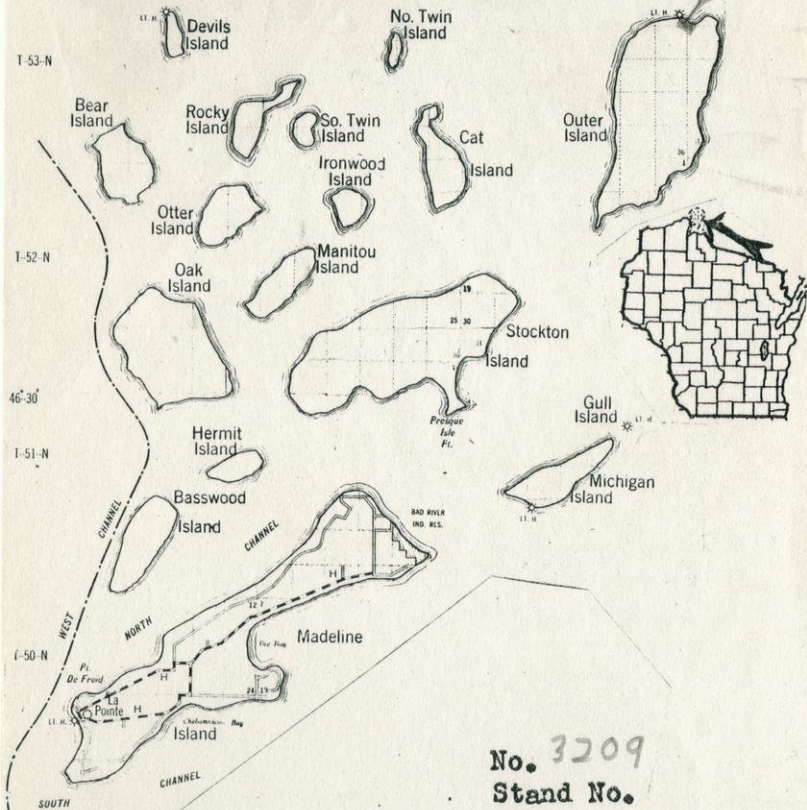
Parent Material:

Map:



Light out 155 (Hi)
In 60 (Low)

APOSTLE ISLANDS in
LAKE SUPERIOR



No. 3209

Stand No.

Date:

Grant Cottam
Richard J. Vogl

Plant Ecology Research
TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

10/160 72 63 25 20, 41 160

Station Number: 3209

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	11	11	11			388	29	18.1			10.9	6.9	1.4	19.2	
Acer rubru	4	5	1	4		673	3	1.9			4.0	3.1	2.4	9.5	
A. sacchar	9	15	10	5		1266	23	14.4			8.9	9.4	4.5	22.8	
A. spicatu															
Betula lut	29	50	12	27	11	11998	13	8.1			28.7	31.2	42.2	102.1	
B. papyrif	1	1		1		225					1.0	.6	.8	2.4	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen	3	4	4			88	3	1.9			3.0	2.5	.3	5.8	
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana	22	35	7	14	14	10870	39	24.4			21.8	21.9	38.2	81.9	
Thuja occi	19	35	25	10		2585	43	26.9			18.8	21.9	9.1	49.8	
Ulmus amer															
U. fulva															
Pyrus Amer	3	4	2	2		318	7	4.4			3.0	2.5	1.1	6.6	
								100.1			100.1	100.0	100.0	310.1	

AVE. DIST. BTW'N TREES: 14.7
AVE SAPLING DIST. 21.3

AVE B. A.: 177.6

TREES/ACRE: 202.0

DOM./ACRE:

96.0

35875.2
249.1

POINT RECORD TREES APOSTLE ISLANDS

3209

Point Number	1	2	3	4	5	6	7	8	9	10	
<i>Abies balsamea</i>			30				12				42
<i>Acer rubrum</i>		1		1		1			2	2	Y ₂
<i>Acer saccharum</i>		75 110						1			Y ₂
<i>Betula lutea</i>	35 2	230		520 170 2		135 40 30 106	185 1	150 50 26 260	35 160	500 65	9/17
<i>Betula papyrifera</i>							225				Y ₁
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>	250 190 520 1	240 2	520 3	35 1	70 1		14			90 860	4/9
<i>Thuja occidentalis</i>			180 18 1	70 1	70 15 175 135/3		✓ 3				3/7
Tree distance	13.5 4.0 9.5 29.0	12.0 29.0 15.0 25.0	13.0 7.0 32.0 20.0	9.0 14.5 22.0 29.0	8.0 12.0 3.0 7.0	7.0 6.0 17.0 18.0	3.0 11.0 10.0 13.5	7.0 5.0 10.5 29.0	4.0 9.0 12.0 19.0	25.0 14.5 19.0 29.0	
Sapling distance	9.0 20.0 4.0 41.0	16.5 28.0 7.0 30.0	12.0 10.0 13.0 7.0	21.0 46.0 8.0 6.0	19.0 25.0 19.0 45.0	9.0 14.5 23.0 7.0	2.0 4.0 6.0 11.0	11.5 14.0 19.0 34.0	10.0 21.0 27.0 17.0	7.0 12.5 18.0 55.0	

3209

Point Number	1	2	3	4	5	6	7	8	9	20
Abies balsamea	12	60	42			50	50			
	1	1			1	1	1	✓	1	
Acer rubrum									23	
	1								1	
Acer saccharum					25 32 75	300	16 115	75 50	150 30	✓
		1			1	2	3	1	1	3
Betula lutea	35 460	150	270	260	970	48		330 170		250 410
								1		
Betula papyrifera										
Quercus rubra										
Tsuga canadensis							245			
		1	1	1		1				
Thuja occidentalis	100	160 180	170 45	30 100 95		120	✓			
	1	1	3	3	2			1		
Pyrus americana									50	28 120
	1								1	1
Tree distance	9.0 8.5 13.5 17.5	2.5 21.0 24.0 27.0	2.0 13.0 10.5 33.0	3.0 11.5 20.0 11.0	9.0 19.0 19.5 30.0	21.0 22.0 9.0 6.0	16.0 17.5 5.0 25.0	12.5 13.5 15.0 10.5	38.0 9.5 17.0 12.0	18.0 19.0 17.0 34.0
Sapling distance	2.0 15.0 17.0 33.0	33.0 48.0 33.0 36.0	24.0 26.0 35.0 33.0	2.0 25.0 8.5 11.5	11.5 13.5 59.0 23.0	15.0 16.0 17.5 27.0	6.5 11.0 2.0 10.0	20.0 16.0 33.0 48.0	15.0 17.0 6.0 25.0	30.0 10.0 29.0 62.0

POINT RECORD TREES APOSTLE ISLANDS

3269

Point Number	21	22	23	24	25	26	27	28	29	30
<i>Abies balsamea</i>	45		85					17		
	1		2	1	1	1		2		
<i>Acer rubrum</i>				230						
<i>Acer saccharum</i>	130									60
	1									1
<i>Betula lutea</i>		780	160 130	270		230		330 85		
	1	1	1	1	1		2			
<i>Betula papyrifera</i>										
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>	460	560	390	260	255 110 350	26 490	860	1080	140 340 430 220	
					1	2	2			
<i>Thuja occidentalis</i>				65		65	60 18 65			40 80 79
						1	1	2	14	
<i>Pyrus am.</i>										
	1	1	1	1						
<i>Prunus pen.</i>	42	18 15			13					
		2		1						
Tree distance	15.0 17.0 16.0 41.0	5.0 7.0 28.0 20.0	20.0 20.5 8.0 15.0	12.5 14.0 30.5 23.5	9.5 4.0 17.0 23.0	3.0 9.5 22.0 25.0	10.5 7.5 15.0 21.5	7.0 24.0 17.5 11.0	15.0 13.5 16.0 5.5	8.5 14.5 11.5 6.0
Sapling distance	25.0 23.0 19.0 47.0	17.5 17.0 6.0 10.0	14.5 37.0 24.0 46.0	9.0 19.0 21.0 26.0	13.5 23.0 24.0 21.0	20.0 11.5 42.0 35.0	16.0 21.0 6.0 13.0	10.5 23.0 9.5 28.0	10.5 18.0 20.0 18.0	18.0 20.0 20.0 29.0

3/3

4/1

2/2

5/1

9/15

4/8

3/4

3209

Point Number	31	32	33	34	35	36	37	38	39	40
Abies balsamea	35									
				1	2		1	1		1
Acer rubrum						100				
Acer saccharum				23						
	2	3	2					1		
Betula lutea		200	540	140 120	1215 280 30	130	200 75 300 19		110	220 380
Betula papyrifera										
Quercus rubra										
Tsuga canadensis	280 40	220	500	20		410		230 70 50		
	1			2	2	2	3	115/3	3	3
Thuja occidentalis	20 1	52	60 32		28	40			17 80 40	45 35
	1	1	1		2	1			1	
<i>Pyrus</i>		120								
Tree distance	7.5 7.0 9.5 8.0	18.0 17.0 19.0 7.0	11.0 15.0 11.0 21.0	3.5 17.5 15.0 29.0	14.0 14.0 6.0 11.0	11.0 21.0 18.6 27.0	5.0 5.5 9.0 13.5	4.0 5.0 12.5 15.0	10.0 13.0 17.0 20.0	9.0 16.5 17.0 15.0
Sapling distance	8.0 33.0 22.0 18.0	15.0 22.0 18.0 28.0	16.0 64.0 28.0 14.0	7.0 7.0 6.0 25.0	28.0 49.0 37.0 23.0	31.0 12.0 33.0 34.0	7.0 16.0 7.0 26.0	11.0 17.0 26.0 20.0	11.5 9.0 36.0 91.0	12.0 48.0 30.0 18.5

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3161
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
Clintonia borealis 1, 7, 9
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 3, 5, 7
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
Lycopodium lucidulum 3, 5, 7
Lycopodium obscurum 3
Lysimachia quadrifolia
Maianthemum canadense 9
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
Taxus canadensis 1, 3, 5, 7, 9
Thalictrum dioicum
Trientalis borealis 7, 9
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

Acer spic 3, 5, 7, 9

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3209
Quadrat No. 3161
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
Clintonia borealis 13, 19
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 11
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
Lycopodium lucidulum 11, 13, 17, 19
Lycopodium obscurum 17
Lysimachia quadrifolia
Maianthemum canadense 17, 19
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 11
Taxus canadensis
Thalictrum dioicum
Trientalis borealis 11, 13, 15, 17
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

Acer sp. 13, 15, 17, 19

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3161
Quadrat No. 21-30

<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> 25	<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</i> sp.	<i>Ribes americanum</i>
<i>Aster macrophyllus</i>	<i>Helianthus strumosus</i>	<i>Rosa</i> sp.
<i>Aster sagittifolius</i>	<i>Hepatica acutiloba</i>	<i>Rubus parviflorus</i>
<i>Athyrium angustum</i>	<i>Hepatica americana</i>	<i>Rubus</i> (blackberry)
<i>Botrychium virginianum</i>	<i>Impatiens biflora</i>	<i>Rubus</i> (dewberry)
<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, 27, 29	<i>Smilax ecirrhata</i>
<i>Clintonia borealis</i>	<i>Lycopodium obscurum</i>	<i>Solidago ulmifolia</i>
<i>Coptis trifolia</i>	<i>Lysimachia quadrifolia</i>	<i>Streptopus roseus</i>
<i>Corallorrhiza maculata</i>	<i>Maianthemum canadense</i> 23	<i>Taxus canadensis</i> 21, 25, 27, 29
<i>Cornus alternifolia</i>	<i>Mitchella repens</i>	<i>Thalictrum dioicum</i>
<i>Cornus canadensis</i>	<i>Mitella diphylla</i>	<i>Trientalis borealis</i> 23
<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>Oncoclea 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> 25	<i>Viola canadensis</i>
<i>Dryopteris phegopteris</i>	<i>Phryma leptostachya</i>	<i>Viola cucullata</i>
<i>Dryopteris spinulosa</i> 27, 29	<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>

Acer sp. 21, 23, 29

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3209

Quadrat No. 3161

81-40

Actaea pachypoda
 Actaea rubra
 Adiantum pedatum
 Allium tricoccum
 Anemone quinquefolia
 Aquilegia canadensis
 5 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
 25 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
 50 Dryopteris spinulosa 33, 35, 37, 39
 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
 70 Lycopodium lucidulum 31, 33, 37
 10 Lycopodium obscurum
 Lysimachia quadrifolia
 20 Maianthemum canadense
 Mitchella repens
 Mitella diphylla
 Mitella nuda
 Monotropa uniflora
 Myrica asplenifolia
 Onoclea sensibilis
 Oryzopsis asperifolia
 Osmorhiza claytoni
 5 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
 65 Taxus canadensis 31, 33, 37, 39
 Thalictrum dioicum
 85 Trientalis borealis
 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 Viburnum acerifolium
 Viola canadensis
 Viola cucullata
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides

65 Acer sp. 33, 35

APOSTLE ISLANDS. Browse Pressure Form p. 2.

Stand No.

3209

Species	Count	Rel. Dens.	Preference	Value
Abies <i>Populus grandid.</i> 1	1	.6	3	1.8
Acer <i>P. tremuloides</i> 11	2	1.3	2	1.3
AC <i>Populus pennsylv.</i> 11	12	7.5	3	22.5
AS <i>P. virginiana</i> 11	53	33.1	3	66.2
Amelanchier <i>Quercus rubra</i> 11	2	1.3	3	2.6
Betula lutea <i>Ribes americanum</i> 1	1	.6	2	1.2
Lonicera <i>Ribes hudsoni</i> 11	2	1.3	2	2.6
<i>Rubus blackberry</i>			3	
<i>R. dewberry</i>			2	
<i>R. parviflorus</i>			3	
<i>R. rasberry</i>			3	
<i>Sambucus pubes.</i>			2	
<i>Sorbus americana</i>			1	
Taxus <i>Taxus canadensis</i> 11	60	37.5	1	37.5
Thuja <i>Thuja occident.</i> 11	26	16.3	1	16.3
<i>Tsuga canadensis</i> 1	1	.6	1	.6
<i>Vaccinium angust.</i>			2	
<i>V. myrtilloides</i>			2	
TOTAL	160			152.6

Extent of Browse	Count	Rel.D! 00000000	Weight	Value
O			0	
L			1	
M			2	
H			3	
T			4	
TOTAL				

Ave distance 5.3

Meanarea

Browse per acre

1550.7

DEER DAMAGE REPORT FORM

Stand No. 3209

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	TAX	0		TAX	4		TAX	5		TAX	6	
2	To	2		To	3.5		TAX	5		To	7	
3	TAX	1		TAX	6		TAX	5		TAX	3	
4	As	3		TAX	1		To	5		TAX	7	
5	TAX	7		To	7		To	5		As	6	
6	To	2		To	5		To	5		As	3	
7	As	3		TAX	4		To	4		To	3	
8	As	2		TAX	3		TAX	3.5		TAX	7	
9	AM	1		TAX	3		AR	5		As	4	
10	AM	5		As	3		TAX	4		TAX	1.5	
11	As	2.5		As	4.5		As	8		BL	5	
12	As	2		As	3		TAX	3		As	1.5	
13	TAX	.5		TAX	3		TAX	3		As	9	
14	TAX	2		As	4		TAX	3		As	7	
15	TAX	1		TAX	3		Ac	5		As	7	
16	As	5.5		Ac	5		Ac	5		Ac	7	
17	Ac	4		As	8		To	4		To	7	
18	As	2		TAX	5		As	4		Ac	6	
19	As	2		As	1.5		Ac	5		Ac	5	
20	TAX	1		TAX	2.5		TAX	4		TAX	1.5	
21	TAX	3		TAX	3		TAX	3.5		TAX	1	
22	TAX	1		TAX	1		TAX	3		TAX	4	
23	As	2		TAX	4		AR	17		As	21	
24	As	8		TAX	10		TAX	8		TAX	15	
25	TAX	1.5		TAX	3		TAX	3		TAX	2	
26	To	4		To	6		TAX	11.5		To	16	
27	To	6		As	12		To	4		To	8	
28	To	5		As	6		LC	7		AB	7	
29	As	9		TAX	9		As	6		TAX	10	
30	As	5		As	7		To	5		LC	6	
31	Ac	3		As	15.5		Ac	22		Ac	18.5	
32	As	2		As	7		As	6		Ac	3.5	
33	To	0		As	4		To	4.5		As	11.0	Lots of TAX, But
34	As	8		As	8		As	12.5		As	6	Below 2'
35	As	5.5		As	7		As	6		To	7	
36	As	3		TAX	5		TAX	6		TAX	9	
37	TAX	.5		To	3		As	4		As	6.5	
38	TAX	3		TAX	5		TAX	6		TC	16.0	
39	As	6		As	5.5		As	5		As	8	
40	TAX	3		TAX	8		TAX			To	4	848.5

AM = Amelanchier

Ave. dist. 5.3
Browse per acre 1550.7

PRESENCE LIST

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

NORTHERN PINE-HARDWOODS

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

STAND NO.

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 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

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
 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
 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: