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Site 3199: Outer Island, Ashland County. 1956-07-30

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Check about
silver maple
P.E.

Outer Island

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3199 ✓

Name: OUTER ISLAND

Locality: SOUTHEAST

County: ASHLAND

T: R: Sec:

Date: 7/30/56

Observers: Vogl, Cottam, + Habeck

Size of Stand: 2

Size of Area Sampled: 20 ACRES

Forest Type: WHITE BIRCH - POPPLE

Soil Type:

Topography: LEVEL

Slope:

Directions West - SE - EAST

Condition of Stand: STAND HAD BEEN PREVIOUSLY CUT & BURNED SO ALMOST ALL TREES WERE OF UNIFORM SIZE. THE MAJORITY OF THE POPULUS TREMULOIDES WERE DEAD. IN SOME PLACES THERE WAS A DENSE GROWTH OF SHRUBS. IN SOME PLACES COMPLETE GROUPS OF POPULUS WERE DEAD.

Open Crown 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									

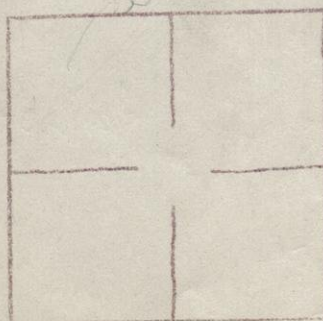
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1/2" deciduous leaves
A ₁	1.5" Black silty
A ₂	2.0" Reddish-Brown clay with pebbles
B	Sandy-Clay - Light-Brownish

Parent Material: Total depth of profile 6-8"

Map:



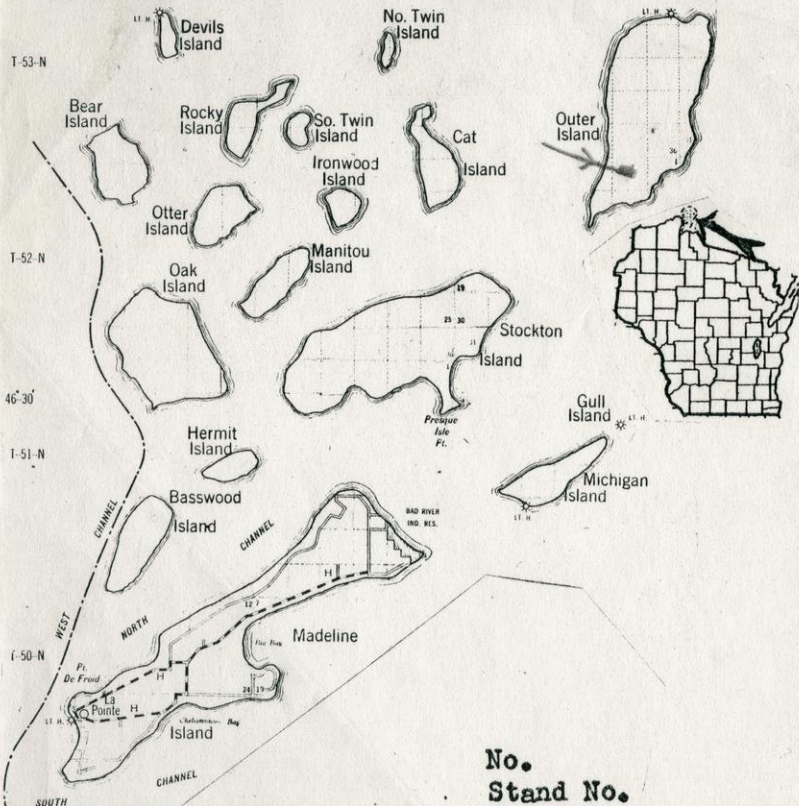
R-3-W

R-2-W

R-1-W

Northern WISCONSIN ASHLAND County

APOSTLE ISLANDS in LAKE SUPERIOR



Collected by

Grant Cottam
Richard J. Vogl

No.
Stand No.
Date:

Northern Pine-Hardwoods

Station Number: 3199

85 159 158 1 1760 159

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			15	2	1.3			1.2	.6	.1	1.9	
Acer rubru	3	3	3			59	15	9.4			3.5	1.9	.3	5.7	
A. sacchar	3	3	3			44	9	5.7			3.5	1.9	.2	5.6	
A. spicatu															
Betula lut	9	11	11			188	34	21.4			10.6	6.9	1.1	18.6	
B. papyrif	36	83	82	1		1712	62	39.0			42.3	52.2	9.7	104.2	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid	1	1	1			27					1.2	.6	.2	2.0	
P. tremulo	29	53	53			1547.5	9	5.7			32.9	33.3	87.9	154.1	
Prunus pen	1	1					13	8.2							
Quercus el															
Q. rubra	2	2	2			52					2.4	1.3	.3	4.0	
Tilia amer	1	1	1			15					1.2	.6	.1	1.9	
Tsuga cana															
Thuja occi	1	1	1			14	15	9.4			1.2	.6	.1	1.9	
Ulmus amer															
U. fulva								100.1			100.0	99.9	100.0	299.9	
<i>Saccharinum</i>							2								

AVE. DIST. BTW'N TREES: 13.9
AVE. SAPLING DIST. 8.9

AVE B. A.: 110.7

TREES/ACRE:

225.4
550.0DOM./ACRE:
24951.8
113.3

TREE DATA SUMMARY SHEET

20.75

- 1.75

3.06

1.14

- 3.75

14.0

1.67

+ 2.25

5.05

1.24

3.25

11.00

1.53

1.58

TREE	DBH	HT	DOM. CLASS	TOT. DOM.	ST. DOM.
Abies bals.	1	1			
Acacia rubra	3	3			
A. sacchar.	3	3			
A. spicata					
Asclepias	1	1			
B. purpurea	2	2			
Calycanthus					
Castanea					
Fraxinus					
Hamamelis					
Pinus strobus					
Pinus resinosa					
Populus					
Prunella					
Rosa					
Spiraea					
Tilia					
Ulmus					
Viburnum					
Yucca					

POINT RECORD TREES APOSTLE ISLANDS

3199

Point Number	1	2	3	4	5	6	7	8	9	0	
<i>Abies balsamea</i>											
<i>Acer rubrum</i>									35		1/1
<i>Acer saccharum</i>							12.0		14.0		7/2
<i>Betula lutea</i>						14.0			18.0	15.0	3/3
<i>Betula papyrifera</i>	20.0		24.0	19.0	17.0	20.0	45.0	35.0	21.0	12.0	9/14
			13.0	16.0	15.0		35.0	25.0		22.0	
				15.0			12.0	26.0			
	2	1	1	18.0		2	2	3			
<i>Quercus rubra</i>										40.0	1/1
<i>Tsuga canadensis</i> <i>Prunus pensylvanica</i>											2
<i>Thuja occidentalis</i>											
<i>Pop. tremuloides</i>	27.0	16.0	17.0	27.0	28.0	17.0		19.5			6/14
	14.0	16.0	45.0		21.0	40.0					
	50.0	27.0									
		22.0									
<i>Red maple</i> <i>Red maple</i>									35.0		1/1
Tree distance	4.0	23.0	7.5	17.0	11.0	21.0	10.0	16.5	7.5	7.0	
	9.0	8.5	5.5	7.5	3.0	11.0	19.5	7.5	5.0	8.0	
	14.0	8.5	5.0	9.0	33.0	18.0	7.0	11.0	14.0	18.0	
	15.0	2.5	24.0	10.0	27.0	22.0	26.0	19.0	21.5	41.0	
Sapling distance	9.5	7.0	6.0	8.0	6.0	3.5	5.0	6.0	24.0	6.0	
	5.0	10.5	2.5	12.5	4.0	3.0	14.5	5.5	12.0	8.0	
	8.0	8.0	3.0	3.5	2.5	7.5	4.0	9.5	8.5	6.0	
	7.0	13.5	2.5	3.0	6.0	8.0	10.0	6.0	9.0	18.0	

3199

Point Number	1	2	3	4	5	6	7	8	9	20	
Abies balsamea				15							1/1
Acer rubrum									12		1/1
Acer saccharum											
Betula lutea		24	12			15					4/5
Betula papyrifera	21	20	12	25	35	14		30	15	17	10/1.7
Quercus rubra	12										1/1
Tsuga canadensis			27								1/1
Thuja occidentalis											
Populus tremuloides	19	22		15	30	27	55		20	32	8/13
Pinus strobus											1/1
Prunus Pa											
Tree distance	26	17	12	6	17	9	16	19	15	11	
Sapling distance	16	19	11	21	20	17	13	4	4	7	

POINT RECORD TREES APOSTLE ISLANDS

3199

Point Number	21	22	23	24	25	26	27	28	29	30
<i>Abies balsamea</i>										
<i>Acer rubrum</i>			1	1	12					
<i>Acer saccharum</i>	2				18					
<i>Betula lutea</i>		13								
<i>Betula papyrifera</i>	23 15	1 3	1 30	2 28 15	13.5	16 13 27 23	17 16 14 17.5	15 23	15 14 18 16	14 12 24 14
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i> ACER SACHARINUM										
<i>Thuja occidentalis</i>								14		
POPULUS TREM.	28 35	25 19 35	35 22 22	22 28	35.5					40
PRUNUS PEN										
Tree distance	4 7 10.5 12	7.5 14 16 6	19 14.5 14.5 17	8 16 26 22	4.5 12.5 16 14	6 12 10 22	18 4 14 10	13.5 22 11.5 5	5 12 14 36	9.5 12.5 18 51
Sapling distance	8 9.5 17 24	2 6 6 9.5	4 10 14.5 13	3 9 10.5 12.5	7 5.5 13.5 16	17 6 10.5 21	8.5 17 5 11.5	10 25 17 14	9.5 18 14.5 15	6 8 10.5 9

Y1

Y1

Y1

9/23

Y1

6/12

POINT RECORD TREES APOSTLE ISLANDS

3199

Point Number	31	32	33	34	35	36	37	38	39	40
<i>Abies balsamea</i>										
<i>Acer rubrum</i>										
<i>Acer saccharum</i>						2	2			2
<i>Betula lutea</i>										19 18
<i>Betula papyrifera</i>	20 28 12 14	17 13 24 3	20 12.5 3	1 1 2	16 12 12 18	45 15 12 12	17 16 12	21.5 16 14 12	24 18 3 1	1 1
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
POPULUS TREM.	25	31	30 15.5	45 21 16 37.5		60	40		53 26	34 23
PRUNUS PEN.										
		1		1					2	2
Tree distance	6.5 2 22.5 20	17 19 13 6	8 13 9.5 20	17 11 9.5 4	15 19 5 10.5	13.5 13 18.5 8.5	14 15 13.5 24	14.5 16 10 12	8 25 12.5 21	9 7 5.5 1
Sapling distance	1.5 6 9 12.5	3 2 4.5 6	6 6 14 4	10.5 8.5 6 4	6 8 6 8	3 5 6 9	14 8 10.5 6	10.5 6 10.5 16	8 10.5 11 11	5.5 6 6 3

1/2

8/24

8/14

APOSTLE ISLANDS. Browse Pressure Form.

Stand No. 3199

Species	Count	Rel. Dens.	Preference	Value
Abies balsamea	4	2.5	3	7.5
Acer rubrum	10	6.3	1	6.3
Ac A. saccharum	8	5.0	3	15.0
AS A. spicatum	23	14.4	2	28.8
Alnus rugosa			4	
Amelanchier sp.			2	
Berberis Thu.				
Betula lutea	14	8.8	2	17.6
B. papyrifera	12	7.5	3	22.5
Cornus rugosa				
C. stolonifera	20	12.5	2	25.0
Corylus cornuta	30	18.8	3	56.4
Diervilla Lon.	12	7.5	3	22.5
Fraxinus ameri.			3	
F. nigra			2	
Gaylussacchia b.			3	
Larix laricina			4	
Ledum groenlandicum			3	
Lonicera canad.			2	
L. oblongifolia				
Nemopanthis m.			3	
Ostrya virginiana			4	
Picea glauca			4	
P. mariana			4	
Pinus Strobus			2	
Acer saccharinum	1	1.6	3	1.8

Species	Count	Rel. Dens.	Preference	Value
<i>Populus grandid.</i>			3	
<i>P. tremuloides</i> //	2	1.3	3	3.9
<i>Prunus pennsylv.</i> //	2	1.3	2	2.6
<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> /	1	1.6	3	1.8
<i>R. raspberry</i> //	2	1.3	3	3.9
<i>Sambucus rubes.</i>			2	
<i>Sorbus americana</i>			1	
<i>Taxus canadensis</i> ///	3	1.9	1	1.9
<i>Thuja occident.</i> /// /// /// ///	16	10.0	1	10.0
<i>Tsuga canadensis</i>			1	
<i>Vaccinium angust.</i>			2	
<i>V. myrtilloides</i>			2	
TOTAL	160			225.7

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

Ave distance 5.89

Mean area

Browse per acre 1255.7

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3199
Quadrat No. 1-10

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Allium tricoccum
Anemone quinquefolia
Aquilegia canadensis
Aralia nudicaulis 3,9
Aralia racemosa
Arisaema atrorubens
Aster macrophyllus 1,3,5,7
Aster sagittifolius
Athyrium angustum
Botrychium virginianum
Brachyelytrum erectum
Carex albursina
Caulophyllum thalictroides
Chimaphila umbellata
Circaea alpina
Circaea latifolia
Clintonia borealis 1,7
Coptis trifolia
Corallorrhiza maculata
Cornus alternifolia
Cornus canadensis 3,5
Cornus rugosa
Corylus americana
Corylus cornuta 3,7
Cypripedium acaule
Diervilla lonicera 1,9
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
Dryopteris spinulosa 9
Epifagus virginiana
Epigaea repens

Fragaria virginiana 1
Galium lanceolatum
Galium triflorum 3,5
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 9
Lysimachia quadrifolia
Maianthemum canadense 7
Mitchella repens 7
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 9
Sanguinaria canadensis
Sanicula gregaria
Smilacina racemosa
Smilacina stellata
Smilax ecirrhata
Solidago ulmifolia
Streptopus roseus 7
Taxus canadensis 7
Thalictrum dioicum
Trientalis borealis 3,5,9
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

Equisetum ✓
Acer ochraceum ✓
Pyrus americana ✓
Lactuca canadensis 1 ✓

Amelanchier ✓
Lonicera canadensis 3 ✓
Melampyrum ✓
Nieraster sp. 5 ✓
Acer spic. 9

Viola incognita 1,3
Petasites palmata 1

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 31-99
Quadrat No. 18-20

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Allium tricoccum
Anemone quinquefolia
Aquilegia canadensis
Aralia nudicaulis 19
Aralia racemosa
Arisaema atrorubens
Aster macrophyllus 11
Aster sagittifolius
Athyrium angustum
Botrychium virginianum
Brachyelytrum erectum
Carex albursina 19
Caulophyllum thalictroides
Chimaphila umbellata
Circaea alpina
Circaea latifolia
Clintonia borealis 13
Coptis trifolia
Corallorrhiza maculata
Cornus alternifolia
Cornus canadensis
Cornus rugosa *stolonifera* 19
Corylus americana
Corylus cornuta 13 17
Cypripedium acaule
Diervilla lonicera 15, 17
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
Dryopteris spinulosa
Epifagus virginiana
Epigaea repens
Solidago 11 ✓
Epilobium 11, 15 ✓
Lar. spectum 19

Fragaria virginiana 19
Galium lanceolatum
Galium triflorum 15, 17, 19
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
Maianthemum canadense 11, 13, 15
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
Thalictrum dioicum
Trientalis borealis 19
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata 15
Viola pallens
Viola pubescens
Waldsteinia fragarioides
Viola *uncoquata* 11, 17

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3199
Quadrat No. 20-30

Actaea pachypoda

Actaea rubra

Adiantum pedatum

Allium tricoccum

Anemone quinquefolia

Aquilegia canadensis

Aralia nudicaulis

Aralia racemosa

Arisaema atrorubens

29, 25 Aster macrophyllus

Aster sagittifolius

Athyrium angustum

Botrychium virginianum

Brachyelytrum erectum

Carex albursina

Caulophyllum thalictroides

Chimaphila umbellata

Circaea alpina

Circaea latifolia

25, 21 Clintonia borealis

Coptis trifolia

Corallorrhiza maculata

Cornus alternifolia

25, 21 Cornus canadensis

Cornus rugosa

Corylus americana

21 Corylus cornuta

Cypripedium acaule

29, 23, 21 Diervilla lonicera

Dirca palustris

Dryopteris linnaeana

Dryopteris phegopteris

27, 21 Dryopteris spinulosa

Epifagus virginiana

Epigaea repens

25 EPILOBIUM

25 MELAMPYRUM

29, 25 Fragaria virginiana

Galium lanceolatum

25 Galium triflorum

Gaultheria procumbens

Gaylussacia baccata

Geranium maculatum

Geum canadense

Gnaphalium obtusifolium

Helianthemum sp.

Helianthus strumosus

Hepatica acutiloba

Hepatica americana

27 Impatiens biflora

Linnaea borealis

Lonicera oblongifolia

Lupinus perennis

Lycopodium annotinum

Lycopodium complanatum

Lycopodium lucidulum

Lycopodium obscurum

Lysimachia quadrifolia

21 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

23, 21 Equisetum sylvaticum

29, 27, 23 Solidago

23 Lactuca can.

25 Lycopus

29 Phleum praetense

Potentilla simplex

Prenanthes alba

Pteridium aquilinum

Pyrola elliptica

Pyrola rotundifolia

Pyrola secunda

Ranunculus recurvatus

Rhus radicans

Ribes americanum

Rosa sp.

Rubus parviflorus

29 Rubus (blackberry)

Rubus (dewberry)

Sambucus pubens

Sanguinaria canadensis

Sanicula gregaria

Smilacina racemosa

Smilacina stellata

Smilax ecirrhata

Solidago ulmifolia

23 Streptopus roseus

Taxus canadensis

Thalictrum dioicum

Trientalis borealis

Trillium grandiflorum

Uvularia grandiflora

Uvularia sessilifolia

Vaccinium angustifolium

Vaccinium pennsylvanicum

Viburnum acerifolium

Viola canadensis

Viola cucullata

Viola pallens

Viola pubescens

Waldsteinia fragarioides

21 Acer spic.

21 POA sp.

29 GRASS

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3199
Quadrat No. 30-40

Actaea pachypoda

Actaea rubra

Adiantum pedatum

Allium tricoccum

Anemone quinquefolia

Aquilegia canadensis

35, 33 Aralia nudicaulis 25

Aralia racemosa

Arisaema atrorubens

Aster macrophyllus 35

Aster sagittifolius

Athyrium angustum

Botrychium virginianum

Brachyelytrum erectum

37, 35 Carex albursina SP. 15

Caulophyllum thalictroides

Chimaphila umbellata

Circaea alpina

Circaea latifolia

Clintonia borealis 25

Coptis trifolia

Corallorrhiza maculata

Cornus alternifolia

33, 31 Cornus canadensis 30

Cornus rugosa STOLONIFERA 5

Corylus americana

Corylus cornuta 25

Cypripedium acaule

31 Diervilla lonicera 40

Dirca palustris

Dryopteris linnaeana

Dryopteris phegopteris

37, 35 Dryopteris spinulosa 25

Epifagus virginiana

Epigaea repens

31 ASTER SP 5

GRASS 5

PETASILSES PAMATA 5

AMELANCHIER 5

HIERACEUM SP. 5

LONICERA CANADENSIS 5

ACER SCHARRINUM 5

PYRUS AMERICANA 5

Fragaria virginiana 20

Galium lanceolatum

33, 31 Galium triflorum 40

Gaultheria procumbens

Gaylussacia baccata

Geranium maculatum

Geum canadense

Gnaphalium obtusifolium

Helianthemum sp.

Helianthus strumosus

Hepatica acutiloba

Hepatica americana

Impatiens CAPENSIS 5

Linnaea borealis

Lonicera oblongifolia

Lupinus perennis

Lycopodium annotinum

35, 33 Lycopodium complanatum 10

Lycopodium lucidulum

Lycopodium obscurum 5

Lysimachia quadrifolia

33 Maianthemum canadense 30

Mitchella repens 5

Mitella diphylla

Mitella nuda

Monotropa uniflora

Myrica asplenifolia

Onoclea sensibilis

Oryzopsis asperifolia

Osmorhiza claytoni

Oxalis montana

Phryma leptostachya

Polygala pauciflora

Polygonatum commutatum

Polygonatum pubescens

39, 35, 31 EPILOBIUM AN. 30

31 PHLOEM PRAETENSIS 10

35, 33, 31 SOLIDAGO 35

39, 33, 31 MELAMPYRUM 25

37 EQUSETUM SYL 20

Potentilla simplex

Prenanthes alba

35 Pteridium aquilinum

Pyrola elliptica

Pyrola rotundifolia

Pyrola secunda

Ranunculus recurvatus

Rhus radicans

Ribes americanum

Rosa sp.

Rubus parviflorus

31 Rubus (blackberry) 10

Rubus (dewberry)

Sambucus pubens 5

Sanguinaria canadensis

Sanicula gregaria

Smilacina racemosa

Smilacina stellata

Smilax ecirrhata

Solidago ulmifolia

STREPTOPUS AMLEXIFOLIA 5

Streptopus roseus 5

Taxus canadensis 5

Thalictrum dioicum

37, 35, 33 Trientalis borealis 35

Trillium grandiflorum

Uvularia grandiflora

Uvularia sessilifolia

Vaccinium angustifolium

Vaccinium pennsylvanicum

Viburnum acerifolium

Viola canadensis

39, 37, 35, 31 VIOLA CUCULLATA 65

VIOLA CUCULLATA 5

Viola pallens

Viola pubescens

Waldsteinia fragarioides

33 LYCOPUS AMER 10

33 TRIFOLIUM SP. 5

33 ACER SPIC. 20

39, 33 POA 15

39 LACTUCA CAN. 10

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3199

✓ 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

Acer saccharinum

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

FELIX-FENINA

Circaea alpina
 Circaea latifolia
 Claytonia caroliniana
 Claytonia virginiana
 ✓ Clintonia borealis
 Convolvulus spithameus
 Coptis trifolia
 Corallorrhiza maculata
 Corallorrhiza striata
 Cornus alternifolia
 ✓ Cornus canadensis
 ✓ Cornus femina stolonifera
 Cornus rugosa
 Corylus americana
 ✓ Corylus cornuta
 Cryptotaenia canadensis
 Cyripedium acaule
 Cyripedium 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

C. tristata

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
 Lycopodium americanum
 Lycopodium uniflora
 Lysimachia quadrifolia
 ✓ Maianthemum canadense

XALPHTHA PLAUSTRUS

☒ *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
Phytolacca leptostachya
Podophyllum peltatum
Polemonium reptans
Polygala pauciflora
Polygonatum commutatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteris nodulosa
☒ *Pteridium aquilinum*

Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus abortivus
Ranunculus recurvatus
Ranunculus septentrionalis
Rhus radicans
Rhus typhina
☒ *Ribes americanum* ^{SP}
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:

☒ *Anaphalis*

DEER DAMAGE REPORT FORM

Stand No. 3199

Taxes
2.5

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	Tax	7.0		Tax	6		As	6		Ag	4	
2	Ac	5	M	As	4		To	7		Cc	11	
3	BL	2.5		BL	1.5		Cs	10.5		BP	8	
4	TO	3.5		TO	9.5		As	8.5		As	8	
5	Cs	3.0		TO	6.0		TO	4.0		TO	7	
6	Ac	3.0		TO	3.5		As	8.0		TO	4	
7	Cc	1		Cc	1.5		Cc	2		Tax	5.5	
8	Asac	3.5		As	2.5		As	1.5		Ag	7.0	
9	As	1.0		BL	6.0		As	7.0		As	5.5	
10	Cc	2.0		Cc	2.0		Cc	2.5		TO	5.0	
11	Cs	3		Cc	7		Cc	10		Cc	6	
12	Cc	7		Cc	11		As	8		Cc	6	
13	Cc	4		Cc	5		Cc	3		Cc	5	
14	DL	4		RP	1/2		Ar	3		DL	3	
15	DL	1/2		DL	2		DL	1		DL	1	
16	Cc	4		DL	4		DL	5		BP	7	
17	PT	1		AC	2		BL	5		DL	3	
18	As	13		Cs	8		Cc	8		Ar	5	
19	As	5		PT	10		As	6		BL	11	
20	BL	8		AR	9		BL	7		BP	10	
21	BL	3		AC	2		Cc	1		Cc	9	
22	Cc	6		RR	7		BL	2		BL	6	
23	DL	.5		RR	3.5		AB	16		Cs	8	
24	Cc	3.5		DL	7.5		BL	10		BL	7	
25	Ac	5		BP	14		Cc	7		Ac	10	
26	Cc	7		BP	6		Cc	12.5		Cc	4	
27	Cs	8		Cs	7		Cs	7		Cs	11.5	
28	TO	15		BP	11.5		BP	7		Cc	6	
29	Cs	3.5		Cs	4		Cs	6		BP	9	
30	AR	9.5		Cs	12		Cs	7		Cc	8	
31	BP	8		Cs	6		As	7		DL	5	
32	Cs	3		As	3		Cs	5		TO	9.5	
33	As	4		Cs	4.5		AR	6		BP	9	
34	PP	7		AR	11		BP	12		PP	5	
35	AR	3		As	6		AR	6		As	4	
36	As	5		Cs	5		BP	8		As	10.5	
37	TO	1.5		As	1		TO	3		TO	4	
38	TO	5		Cs	7		AB	10		TO	11	
39	AR	6		BL	8		Cc	5.5		AR	5.5	
40	AR	7		As	3		AB	3		BL	8	

Ag = Silver Maple.
 Cs Cornus stolonifera
 DL Diervilla lonicera

R P - Rubus parviflorus

PP - PRUNUS PEN.

Ave. dist. 5.89

Browse per acre 1255.7

942.5