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Site 3205: Outer Island #7, Ashland County. 1956-08-2

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Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 32052

Name: Outer island #7
County: Ashland

Locality: NORTH

Date: 8/2/56

T:

R:

Sec:

Observers: COTTAM, HABECK, & VOGL

Size of Stand: ?

Size of Area Sampled: 1000 yd. LINE

Forest Type: yellow birch - hemlock

Soil Type:

Topography: LEVEL WITH A FEW GENTLE ROLLS. Slope:

Directions W →

Condition of Stand: EVIDENCE OF CUTTING NOT FOUND.

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.)

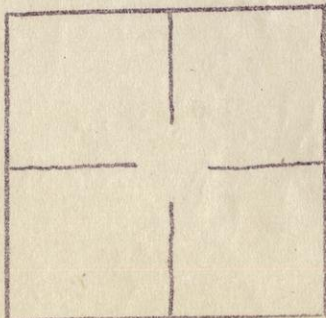
A ₀	3" - 9"	
A ₁	2"	BLACK - SILT
A ₂	3"	LIGHT GRAY - SOMEWHAT MOTTLED - SANDY CLAY
B		DARKER GRAY - SANDY CLAY

Parent Material:

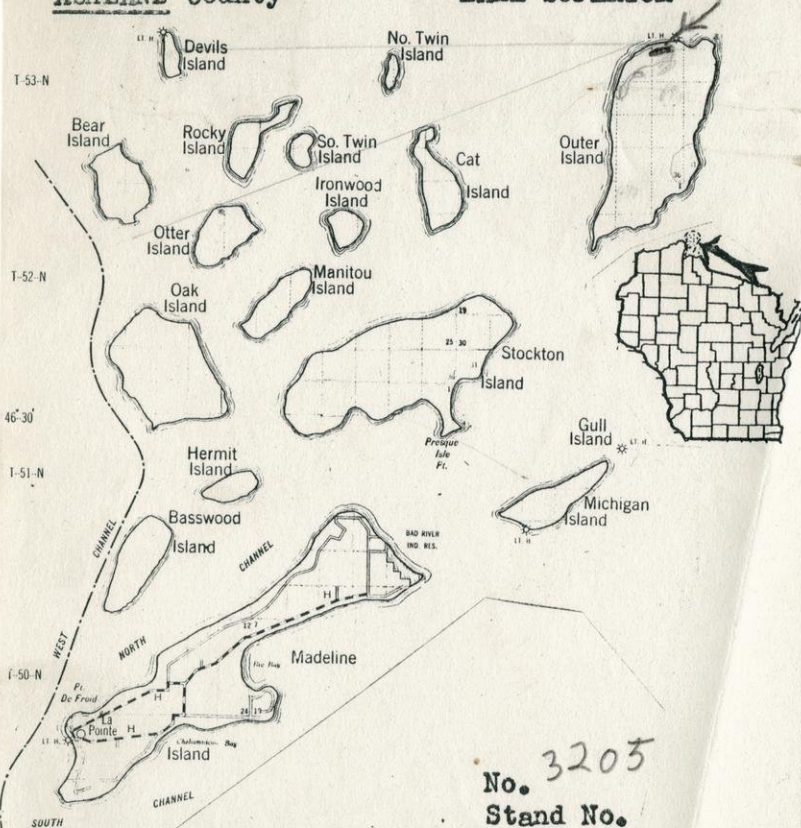
IN 55 LOW SCALE

Map:

OUT 150 HI SCALE



APOSTLE ISLANDS in
LAKE SUPERIOR



No. 3205
Stand No.
Date:

Collected by

Grant Cottam
Richard J. Vogl

Plant Ecology Research
TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

Station Number:

3205

102 160 94 46 20 22.08 156

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	9	10	7	3		657	8	5.1			8.8	6.2	3.0	18.0	
Acer rubru	3	3	3			104	4	2.6			2.9	1.9	.5	5.3	
A. sacchar															
A. spicatu															
Betula lut	34	60	42	16	2	4905	37	23.7			33.3	37.5	22.7	93.0	
B. papyrif															
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo	1	1	1			29					1.0	.6	.1	1.7	
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana	31	57	15	24	18	15048	71	45.5			30.4	35.6	68.1	134.1	
Thuja occi	15	20	19	1		840	33	21.2			14.7	12.5	3.8	31.0	
Ulmus amer															
U. fulva															
Pyrus Amer	9	9	7	2		498	3	1.9			8.8	5.6	2.3	16.7	
								100.0			99.9	99.9	100.0	299.8	

AVE. DIST. BTW'N TREES: 13.1
AVE SAP. DIST. 18.8

AVE B. A.: 138.0

TREES/ACRE: 253.8
123.2DOM./ACRE:
35024.4
243.2

POINT RECORD TREES APOSTLE ISLANDS

3205

Point Number	1	2	3	4	5	6	7	8	9	10	
<i>Abies balsamea</i>			50					60		25 120	3/4
<i>Acer rubrum</i>	1	19					1	35			2/2
<i>Acer saccharum</i>											
<i>Betula lutea</i>	420	120 70	75	90 18		✓ 35 320	60 15		27 15	180	8/15
<i>Betula papyrifera</i>		1		1	1	1			1		
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>		29	270 620		150 170 390	290 360			420 310	1170	6/11
<i>Thuja occidentalis</i>	35 75	1	2	4	1	2	1	12	4	3	4/7
<i>PRUNUS AMERICANA</i>	2			2	1	2	3				3/3
			1								
Tree distance	7 7.5 15 16	16 8 8 20	17.5 22 8 16	6.5 1 12 15.5	13.5 8.5 12 16	18.5 19.5 8 25	10.5 11.5 10 20.5	4 13.5 8 16	13 8 3 16.5	10.5 15.5 22 23.5	
Sapling distance	11.5 25 32 37	50 24 18.5 38	31 11 26 41.5	13.5 8 12.5 6	16.5 24 28 14	23 19.5 20.5 31	10.5 26.5 19 17	6 18 32 23.5	6 26 15.5 3	12.5 17 25 16	

POINT RECORD TREES APOSTLE ISLANDS

3205

Point Number	1	2	3	4	5	6	7	8	9	20
<i>Abies balsamea</i>			100							100
<i>Acer rubrum</i>			1					1	1	
<i>Acer saccharum</i>										
<i>Betula lutea</i>	120		320 55	110	3.7	20	33 18 16	13 85 36 16	70	
<i>Betula papyrifera</i>	1	2	1		1		2		3	2
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>	740 740	580 60 500	360	120	490 58	17 12	130		485 45 27	145 115 115
<i>Thuja occidentalis</i>	45	75		26 12	56					
<i>Pyrus amur</i>	3		1	4	3					
						44				
							1			
Tree distance	25 9 24 26	10 32 17.5 16	55 12.5 16.5 14.5	10 10 17 17	4 6 9 15	3 8 7 18	9 5 14 14	4 5 6 9	5 8 20 16	11 8 15 7
Sapling distance	9 9.5 9.5 26.5	19.5 16 28 75	13.5 25 16.5 20	8 14 13 22	4 9 7 5	12 6 5 15	5 2 13 8	3 6 7 6	7 14 16 24	19 22 30 38

2/2

8/14

9/18

4/5

1/1

POINT RECORD TREES APOSTLE ISLANDS

3205

Point Number	21	22	23	24	25	26	27	28	29	30
<i>Abies balsamea</i>					24					
<i>Acer rubrum</i>		1							50	
<i>Acer saccharum</i>							1			
<i>Betula lutea</i>	72 2	238	55	130 17 83 11	90 230 1	28	215 43 50	14 45 95	17 2	28 55 2
<i>Betula papyrifera</i>										
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>	272 27 1	365 18 54 13	100 27 3	680 3	510 3	282 105 4			430 42 4	560 2 2
<i>Thuja occidentalis</i>			1				14			
<i>Papaver</i>	47		44			55				86
<i>Populus tremuloides</i>								29		
Tree distance	5 14 13 21	13 18 14 16	8 7 9 16	10 8 14 18	17 17 22 13	12 14 14 11	6 8 12 14	11.0 5.5 21.0 20.5	10.0 9.5 7.0 6.0	5.0 26.5 9.5 27.0
Sapling distance	26 23 16 23	29 32 23 46	7 10 9 8	7 19 8 20	13 6 11 23	20 17 14 15	17 23 15 11	8.0 6.0 6.0 22.5	10.5 24.0 14.0 17.0	5.0 16.0 3.0 11.5

Y1

Y1

10/18

8/14

Y1

4/4

Y1

POINT RECORD TREES APOSTLE ISLANDS

3705

Point Number	31	32	33	34	35	36	37	38	39	40
Abies balsamea			48				60	70		
Acer rubrum	✓						1	1		
Acer saccharum	2					1				
Betula lutea	290		30	28 12		18	60	25 50 35	120 80 14	40 40
Betula papyrifera		2	1	1		1		2	65	2
Quercus rubra										
Tsuga canadensis	300 300 480 1	280 120 265 2	170 2 1	85 1 1	18 22.0 1	75 105 1	200 1			30 40 2
Thuja occidentalis		37	23	18	62 68	120	29			40
	1		2	2	3	1	1			
Pyrus							58		12	
									1	
Tree distance	7.5 19.5 19.5 21.0	8.5 8.5 8.5 22.0	5.0 7.0 13.0 9.0	13.5 19.5 13.5 16.0	5.0 11.5 15.5 21.0	11.5 11.5 10.5 9.5	16.0 26.0 7.5 17.0	10.0 11.5 8.0 13.0	4.5 3.5 18.5 21.5	11.5 16.0 6.0 15.0
Sapling distance	7.0 11.0 46.0 41.0	11.0 44.0 90.0 50.0	10.0 17.0 16.0 38.0	6.0 18.0 18.0 29.0	10.5 18.0 21.0 14.0	15.0 17.0 23.0 30.0	23.0 16.0 29.0 37.0	11.0 7.0 10.0 25.0	15.0 12.5 4.0 45.0	14.5 21.5 31.5 48.0

Species	Count	Rel. Dens.	Preference	Value
Abies <i>Populus grandid.</i> III	3	1.9	3	5.7
Acer rubrum II <i>P. tremuloides</i>	2	1.3	2	2.6
AS Acer <i>Prunus pennsylv.</i> XXXXXXXXXXXXXXXXXXXX	43	26.9	2	53.8
AC Acer <i>P. virginiana</i>			3	
Regula lutea XII <i>Quercus rubra</i>	5	3.1	3	9.3
<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> I	1	.6	1	.6
XXXXXXXXXXXXXXXXXXXXXXXXXXXX <i>Taxus canadensis</i>	63	39.4	1	39.4
XXXXXXXXXXXX <i>Thuja occident.</i>	19	11.9	1	11.9
XXXXXXXXXXXX <i>Tsuga canadensis</i>	24	15.0	1	15.0
<i>Vaccinium angust.</i>			2	
<i>V. myrtilloides</i>			2	
TOTAL	160			138.3

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

Ave distance 4.2

Mean area

Browse per acre 2469.4

DEER DAMAGE REPORT FORM

Stand No. 3205

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	AS	1		TAX	3		AS	4		AS	4.5	
2	TAX	2		AS	1		AS	2		TAX	2.5	
3	AS	4		TC	4		BL	6		PAM	7.5	
4	TO	10.5		AS	6		TO	6		AS	6	
5	BL	3.5		BL	3.5		AS	6.5		AS	6.5	
6	TAX	.5		TAX	.5		TAX	1		AS	3	
7	TO	3		TO	10		TO	10.5		TO	9.5	
8	TAX	2		TC	2.5		TO	8.5		TAX	4	
9	AS	4.5		TC	4		TAX	4		TAX	6	
10	TC	1		TAX	1		TO	2		TAX	1	
11	AR	1.5		AS	3.5		AS	3.5		AS	5	
12	AS	6		TC	8.5		AS	6.5		BL	8	
13	AS	2.5		AS	2		TAX	1.5		TC	1.5	
14	TAX	2		AS	1/2		TO	5		TO	5	
15	TO	1		TO	4		TO	9		TC	12	
16	TC	5		TC	6		TC	6		TC	7	
17	TAX	0		TAX	1/2		TAX	1		TAX	1 1/2	
18	TAX	2		TC	3		AB	6		AB	5	
19	TAX	3		TAX	3		AB	7		AR	14	
20	TAX	2		TAX	1		TAX	1		TAX	2	
21	TAX	1/2		AS	6		AS	4		TO	5	
22	AS	2		AS	5		TAX	11		TAX	6	
23	TO	5		TO	4		TO	9		TC	11	
24	TAX	1		TAX	1		TAX	1/2		TC	5	
25	11	3		11	1		11	1/2		TAX	2	
26	TAX	0		TAX	1/2		TAX	1/2		TAX	2	
27	AS	1		AS	3		AS	3		AS	2	
28	TAX	2		TAX	3		AS	5		TC	6	
29	TAX	1		TAX	4		TC	9		TAX	4	
30	TAX	1.5		TAX	1.5		AS	2.5		BL	5	
31	TAX	5		TAX	3		TAX	2.5		TAX	8	
32	TAX	8		AS	10.5		TAX	14		AS	8	
33	TC	2		TC	3		TC	8		TC	3	
34	TC	2		TC	6		TC	8		TO	5	
35	TAX	3		AS	6		TAX	2.5		AS	8	
36	TAX	2		TAX	3		TAX	5		TO	7	
37	AS	1		AS	6		AS	4		TAX	2	
38	TAX	.5		TAX	3		TC	5		TAX	3	
39	AS	2.5		AS	3		AS	4		AS	7	
40	AS	4		AS	2		TAX	3		TAX	6	

668.5

Ave. Dist. 4.2
Browse per acre 2469.4

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3205
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
 7,3 *Clintonia borealis*
Coptis trifolia
Corallorrhiza maculata
Cornus alternifolia
 7 *Cornus canadensis*
Cornus rugosa
Corylus americana
Corylus cornuta
Cypripedium acaule
Diervilla lonicera
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
 5,3,1 *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
Lycopodium lucidulum
Lycopodium obscurum
Lysimachia quadrifolia
 7,3 *Maianthemum canadense*
Mitchella repens
Mitella diphylla
Mitella nuda
Monotropa uniflora
Myrica asplenifolia
Onoclea sensibilis
Oryzopsis asperifolia
Osmorhiza claytoni
 3 *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
 9,1 *Taxus canadensis*
Thalictrum dioicum
 1 *Trientalis borealis*
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

7,5,3,1 ACER SPIC.

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3205
Quadrat No. 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
 19 15 *Clintonia borealis* 15
Coptis trifolia
Corallorrhiza maculata
Cornus alternifolia
 19 *Cornus canadensis*
Cornus rugosa
Corylus americana
Corylus cornuta
Cypripedium acaule
Diervilla lonicera
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
Dryopteris spinulosa
Epifagus virginiana
Epigaea repens

15 *Chrysothamnus*

Fragaria virginiana
Galium lanceolatum
Galium triflorum
 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
 19 *Lycopodium annotinum*
Lycopodium complanatum
 13 *Lycopodium lucidulum*
Lycopodium obscurum
Lysimachia quadrifolia
 19 *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
 19, 17, 13 *Taxus canadensis*
Thalictrum dioicum
 13 *Trientalis borealis*
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

15, 13 *ACER SPIC.*

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3205
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>	<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>	25 <i>Lycopodium lucidulum</i>	<i>Smilax ecirrhata</i>
27 25 <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>	25 <i>Maianthemum canadense</i> 29	27 25 <i>Taxus canadensis</i> 29
<i>Cornus alternifolia</i>	<i>Mitchella repens</i>	<i>Thalictrum dioicum</i>
<i>Cornus canadensis</i>	<i>Mitella diphylla</i>	27 <i>Trientalis borealis</i> 29
<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>
25 <i>Dryopteris spinulosa</i> 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>

25 21 *Acer spicatum*

27

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3205
Quadrat No. 31-40

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 31/35
Coptis trifolia
Corallorrhiza maculata
Cornus alternifolia
Cornus canadensis 10
Cornus rugosa
Corylus americana
Corylus cornuta
Cypripedium acaule
Diervilla lonicera
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
Dryopteris spinulosa 33/30
Epifagus virginiana
Epigaea repens

Fragaria virginiana
Galium lanceolatum
Galium triflorum
Gaultheria procumbens 5
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 5
Lycopodium complanatum
Lycopodium lucidulum 39/5
Lycopodium obscurum
Lysimachia quadrifolia
Maianthemum canadense 33/30
Mitchella repens
Mitella diphylla
Mitella nuda
Monotropa uniflora
Myrica asplenifolia
Onoclea sensibilis
Oryzopsis asperifolia
Osmorhiza claytoni
Oxalis montana 5
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 31, 35, 37, 39, 60
Thalictrum dioicum
Trientalis borealis 20
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

Acer sp. 33, 35, 37 60
 CHIOGENE 5

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO.

X *Abies balsamea*
 X *Acer rubrum*
 Acer saccharum
 X *Acer spicatum*
 Amelanchier sp.
 X *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
 X *Pinus strobus*
 Populus balsamifera
 Populus grandidentata
 Populus tremuloides
 Prunus pennsylvanica
 Prunus serotina

Prunus virginiana
 Quercus alba
 Quercus ellipsoidalis
 Quercus macrocarpa
 Quercus rubra
 Sorbus decora
 X *Thuja occidentalis*
 Tilia americana
 X *Tsuga canadensis*
 Ulmus americana
 Ulmus fulva
 X PYRUS AMER.

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
 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
 X *Coptis trifolia*
 Corallorrhiza maculata
 Corallorrhiza striata
 Cornus alternifolia
 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
 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
 X *Gaultheria procumbens*
 Gaylussacia baccata
 Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Goodyera pubescens
 X *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
 X *Lycopodium lucidulum*
 X *Lycopodium obscurum*
 Lycopodium tristachyum
 Lycopus americanus
 Lycopus uniflora
 Lysimachia quadrifolia
 X *Maianthemum canadense*
 X *Nemopanthus macronota*
 X IRIS VERSICOLOR

Data Form No. 17 (P.2)

Melampyrum lineare
Mitchella repens
Mitella diphylla
Mitella nuda
Monarda fistulosa
Moneses uniflora
X Monotropa uniflora
Myrica asplenifolia
Onoclea sensibilis
Oryzopsis asperifolia
Osmorhiza claytoni
Osmunda cinnamomea
Osmunda claytoniana
X 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
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
Viola incognita
Viola pallens
Viola pubescens
Vitis aestivalis
Vitis riparia
Waldsteinia fragarioides
Zanthoxylum americanum

Additional Species: