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Site 3197: Cat Island #3, Ashland County. 1956-07-24

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STAND RECORD

FORESTS

Stand No. 3197

Name: CAT ISLAND #3

County: ASHLAND

T:

R:

Sec:

Date: 7-24-56

Observers: COTTAM & VOGL

Size of Stand 2

Size of Area Sampled: $\frac{1}{4}$ MILE X 300'

Forest Type: THUJA MIXED

Soil Type:

Topography: GENTLE SLOPE

Slope:

Directions

Condition of Stand: HAD BEEN CUT, TAXUS VERY HEAVY IN MOST PLACES.

Open Grown Trees:

Stumps:

1.	4.
2.	5.
3.	6.

% Canopy:

light 50 to 30%

7.	10.
8.	11.
9.	12.

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A ₀									
A ₁									
A ₂									
B									

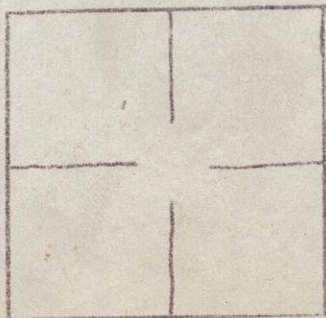
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1"	Deciduous leaves & copper needles
A ₁	1/2"	Black silt
A ₂	1 1/2"	Medium brown sandy clay
B		Reddish brown sandy clay

Parent Material:

Map:



Northern Pine-Hardwoods

Station Number: 3197

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	20	28	20	8		1760	51	31.9			18.7	17.5	17.1	53.3	
Acer rubru	8	8	8			228	1	.6			7.5	5.0	2.2	14.7	
A. sacchar	6	7	2	5		930	2	1.2			5.6	4.4	9.0	19.0	
A. spicatu															
Betula lut	17	22	15	3	4	3257	8	5.0			15.9	13.8	31.6	6.3	
B. papyrif	12	13	11	2		640	5	3.1			11.2	8.1	6.2	25.5	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen	6	6	6			111	8	5.0			5.6	3.8	1.1	10.5	
Quercus el															
Q. rubra	1	2		2		215					.9	1.2	2.1	4.2	
Tilia amer															
Tsuga cana	2	2	1	1		215					1.9	1.2	2.1	5.2	
Thuja occi	34	71	65	6		2935	83	51.9			31.8	44.4	28.5	104.7	
Ulmus amer															
U. fulva															
PYRUS AM.	1	1	1			16	2	1.2			.9	.6	.2	1.7	
								99.9			100.0	100.0	100.1	300.1	

AVE. DIST. BTW'N TREES: 12.0

AVE B. A.: 64.4

TREES/ACRE: 302.5

DOM./ACRE:

ave. sap. dist. 11.2

347.3

19481.
135.3 sap. H.

POINT RECORD TREES APOSTLE ISLANDS

3197

Point Number	1	2	3	4	5	6	7	8	9	0	
<i>Abies balsamea</i>							45 150 243	110		14	$\frac{3}{5}$
<i>Acer rubrum</i>	21	45		15		22		23		35	$\frac{6}{6}$
<i>Acer saccharum</i>											
<i>Betula lutea</i>	35 30	720		14	20		390		17		$\frac{6}{7}$
<i>Betula papyrifera</i>	35		95		45				17 55		$\frac{4}{5}$
<i>Quercus rubra</i>								85 130			$\frac{1}{2}$
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>		60	22 50	16	60 85	13 50				20 27	$\frac{6}{10}$
<i>Prunus Pennsylvanica</i>		22	22	15		20			13		$\frac{5}{5}$
<i>Pyrus Americanus</i>											
Tree distance	16 5 4 15	17 8 5 8	10 15 18 5	16 18 8 15	11 11 14 18	17 8 29 3	13 11 23 8	18 22 5 7	8 9 14 7	15 14 18 4	
Sapling distance	7 5 8 11	18 9 6 7	4 19 26 5	26 13 19 22	13 14 7 20	2 3 7 22	22 20 13 40	10 8 10 13	7 6 5 12	9 14 11 23	

POINT RECORD TREES APOSTLE ISLANDS

3197

Point Number	11	12	13	14	15	16	17	18	19	20
<i>Abies balsamea</i>	40 12	110 40	35 53	70 110 3	50	45 17	1	21 18 11	45 12	
<i>Acer rubrum</i>	22									
<i>Acer saccharum</i>								30		20
<i>Betula lutea</i>	130						300		450	
<i>Betula papyrifera</i>			180							
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>	16 2 12	24 17 12	60 4	22 1	70 14 26	40 15 3	130 85 28	40 3	75 9.5 12	30 45 21 14
<i>Pyrus americana</i>				16						
Tree distance	9- 12 25 12	12- 24 4 4	1- 2 11 18	10 18 13 11	9 11 5 6	14- 20 6 8	20 9 13 10	25 17 6 7	15 12- 12 5-	8- 20 13 8
Sapling distance	11- 7 16 12	5- 5- 6	18- 14- 8 9-	15- 12 13 26	7- 12- 12-	5 5 4 8	5 5- 4 6	3 2- 2 11	5 13 19 31	8- 8- 5- 17

 $\frac{8}{13}$ $\frac{1}{1}$ $\frac{2}{2}$ $\frac{3}{3}$ $\frac{1}{1}$ $\frac{10}{19}$ $\frac{1}{1}$

POINT RECORD TREES APOSTLE ISLANDS

3197

Point Number	21	22	23	24	25	26	27	28	29	30
<i>Abies balsamea</i>		50	130			85 45	60		100	
<i>Acer rubrum</i>			2		45	3	2	2	2	1
<i>Acer saccharum</i>		140 230							360 V	100
<i>Betula lutea</i>			260		40					60 35
<i>Betula papyrifera</i>				40	20			15		25
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>			170							
<i>Thuja occidentalis</i>	14 ✓ 35 40 22	35 4	45 2	25 30 15 4	50 1	60 40 2	75 120 60	55 75 120	22 30 1	3
Tree distance	14 9.5 10 12	6.5 15 5 4	8- 8 14 16	7 7 10 16	10.5 7 10.5 34	10 12- 15 10	12.5 30 5 6.5	23 21 21 19	22 15 3.5 5.5	21 25.5 17 2.5
Sapling distance	2 3 5 6.5	2 3.5 7 6.5	10 15 8 11	1 3 4 5	3 5 5 10	10 18 18 29	6 6 18 21	14 13.5 16 19	5.5 11.5 23 40	8 13 19 23

 $\frac{5}{6}$ $\frac{1}{1}$ $\frac{3}{4}$ $\frac{3}{4}$ $\frac{4}{4}$ $\frac{1}{1}$ $\frac{9}{20}$

POINT RECORD TREES APOSTLE ISLANDS

3197

Point Number	31	32	33	34	35	36	37	38	39	40
<i>Abies balsamea</i>		14			13		180			80
	3	1	1	1	1	2		3		1
<i>Acer rubrum</i>										
<i>Acer saccharum</i>								110		
<i>Betula lutea</i>	15 35 25		16			55 580			18	12
<i>Betula papyrifera</i>	23		45	45						
<i>Quercus rubra</i>				1	1					
<i>Tsuga canadensis</i>									45	
<i>Thuja occidentalis</i>		12 12 12	25 20	50 20 40	20 40 80	40 50	32 65 42	45 20 14	22 22	27 13
		3	3	2	2	2	4	1	4	2
PRUNUS PEN.									19	
Tree distance	7 9.5 9.5 2	4 4 11 12	15 17 7 16	13 7 5 6	7 9 8 7	15 28 22 5	3 6.5 15.5 11.5	10 16 9 13	14 15 19 8	10 17 11 6
Sapling distance	7 5 9 24	2.5 20 7 7	7 6 14 7	6 10 9.5 19	3 6 6 15	5 9 24 13	8.5 19 18 13	4 5.5 20 12	11 7 16 17	7 9 12 13

4
41
75
83
31
19
221
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STAND # 3197

SPECIES

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CC

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1

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LC

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1

4

12

69

75

STAND # 3197

	Browse	CONDITION	By Species	%	
T	H	M	L	O	TOTAL
TO			21.4	78.6	100.0
TAX	3.8	7.6	46.7	41.9	100.0
AB			17.6	82.4	100.0
AS		11.8	76.5	11.8	100.1
CC		33.3	16.7	50.0	100.0
LC				100.0	100.0

% EACH SPECIES CONTRIBUTES TO EACH BROWSE CATEGORY

	TO	TAX	AB	AS	CC	LC	TOTAL
T		100.0					100.0
H		66.7		16.7	16.7		100.1
M	4.3	71.0	4.3	18.8	1.4		99.8
L	14.7	58.7	18.7	2.7	4.0	1.3	100.1

% TO EACH CATEGORY CONTRIBUTES TO TOTAL BROWSE = CATEGORY TOTAL / 160

T	H	M	L	O	TOTAL
2.5	2.5	7.5	43.1	46.9	100.0

% BROWSE SPECIES

TO	TAX	AB	AS	CC	LC	TOTAL
8.8	65.6	10.6	10.6	3.8	.6	100.0

DEER DAMAGE REPORT FORM

Stand No. 3197

Pt. No.	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con	Sp	Dis	Con
1	AB	4	O	AB	5	L	AS	5	L	AB	3	L
2	AS	1	M	TAX	7	L	AB	7	O	AB	9	O
3	CC	2	L	TAX	4	O	CC	2	M	TAX	5	L
4	AS	4	O	TAX	3	L	TAX	4	O	TAX	2	L
5	TAX	2	L	TAX	2	L	TAX	7	L	TAX	6	M
6	TAX	1	L	TAX	2	O	TAX	2	L	TAX	4	O
7	CC	1	M	TAX	2	L	AS	1	L	TAX	2	L
8	TAX	2	O	TAX	3	O	TAX	4	O	TAX	3	L
9	TAX	2	O	TAX	2	O	TAX	3	O	TAX	3	L
10	TAX	3	O	TAX	2	L	TAX	2	O	TAX	5	O
11	TAX	2	O	TAX	2	L	TO	1	O	AB	4	O
12	AS	2	L	AB	3	O	LC	6	O	TAX	4	O
13	AB	1	O	TAX	6	L	TAX	5	O	TAX	5	O
14	TAX	5	O	AB	8	O	AS	3	M	AS	8	L
15	TAX	3	L	TAX	7	M	TAX	2	O	TAX	6	M
16	TAX	2	L	TAX	1	L	TAX	5	O	TO	4	L
17	TO	7	O	AS	6	L	TAX	8	L	TAX	7	H
18	TAX	2	L	TAX	6	L	TAX	3	M	TAX	2	L
19	TAX	3	L	TAX	1	O	AB	5	O	AS	4	L
20	TAX	3	O	CC	6	O	TO	5	O	CC	7	O
21	TO	2	O	TO	9.5	O	TO	7	O	TAX	8	M
22	TO	5	O	TAX	6	O	TAX	7	L	TAX	6	O
23	TAX	1.5	H	TAX	3	L	TAX	3.5	L	TAX	3.5	L
24	AB	2.5	O	TAX	4	L	TAX	2	O	TAX	3	L
25	AB	3	O	AB	6	L	TAX	5	L	AB	5	O
26	TAX	10.5	M	AS	7	L	TAX	7	O	TAX	16	O
27	TAX	5	M	AS	3	L	AS	7	L	AS	6	L
28	TO	2	L	TO	4	O	AB	3	O	AS	6	L
29	CC	4	O	TAX	6	O	TAX	3.5	L	TAX	4	L
30	AS	1	O	AB	3	O	AS	5	L	TO	4	O
31	TAX	3	O	AB	1.5	O	TAX	6.5	O	TO	7	O
32	TAX	2	H	TAX	3	H	TAX	7	L	TAX	5	L
33	TAX	2	L	TAX	3	O	TAX	4	L	TAX	3	O
34	TAX	7.5	O	TAX	8	L	TAX	6	O	TAX	6	O
35	TAX	6.5	L	TAX	5	O	TO	7	O	TAX	13.5	L
36	TAX	1	L	TAX	1.5	L	TAX	2	O	TAX	3	L
37	TAX	3	L	TAX	2	L	TAX	2	M	TAX	1	O
38	TAX	3.5	O	TAX	3	O	TAX	4	O	TAX	5	L
39	TO	2	L	TAX	4	L	TAX	4	L	TAX	3	L
40	TAX	3	O	TAX	2	O	TAX	2	O	AS	3	L

LC *Lonicera canadensis*Ave. dist. 4.09
Browse per acre 2604.0

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3197
Quadrat No. 1-10

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	7 Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	9, 7 53 Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
3 Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	1 Viola canadensis microgyna
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	9, 5, 1 A. ut sp. natum

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3197
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
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
Lonicera oblongifolia
Lupinus perennis
 19 *Lycopodium annotinum*
 Lycopodium ^{clavatum} complanatum
 17 *Lycopodium lucidulum*
 Lycopodium obscurum
Lysimachia quadrifolia
Maianthemum canadense
Mitchella repens
Mitella diphylla
Mitella nuda
Monotropa uniflora
Myrica asplenifolia
Onoclea sensibilis
Oryzopsis asperifolia
Osmorhiza claytoni
Oxalis montana
Phryma leptostachya
Polygala pauciflora
Polygonatum commutatum
Polygonatum pubescens

Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus recurvatus
Rhus radicans
Ribes americanum
Rosa sp.
Rubus parviflorus
Rubus (blackberry)
Rubus (dewberry)
Sambucus pubens
Sanguinaria canadensis
Sanicula gregaria
Smilacina racemosa
Smilacina stellata
Smilax ecirrhata
Solidago ulmifolia
Streptopus roseus
 19, 15, 13, 11 *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

17, 15, 13, 11 Row Squat

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3197
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>	29 <i>Lycopodium lucidulum</i>	<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> 29, 27, 23, 21	<i>Taxus canadensis</i>
<i>Cornus alternifolia</i>	<i>Mitchella repens</i>	<i>Thalictrum dioicum</i>
<i>Cornus canadensis</i>	<i>Mitella diphylla</i>	<i>Trientalis borealis</i>
<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>
25 <i>Dryopteris linnaeana</i> DISJUNCTA	<i>Oxalis montana</i>	<i>Viola canadensis</i>
<i>Dryopteris phegopteris</i>	<i>Phryma leptostachya</i>	25 <i>Viola cucullata</i> INCOGNITA
25 <i>Dryopteris spinulosa</i>	<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>

29, 27, 25, 21 ACER SPIC

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No.
Quadrat No. 3197
30-40

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
 Coptis trifolia
 Corallorrhiza maculata
 Cornus alternifolia
 Cornus canadensis
 Cornus rugosa
 Corylus americana
 Corylus cornuta 5
 Cyripedium acaule
 Diervilla lonicera
 Dirca palustris
 Dryopteris ~~linnaeana~~ DISTUNCTA 5
 Dryopteris phegopteris
 Dryopteris spinulosa 5
 Epifagus virginiana
 Epigaea repens

Fragaria virginiana
 Galium lanceolatum
 37 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 10
 Lycopodium complanatum
 37, 31 Lycopodium lucidulum 20
 35 Lycopodium obscurum 5
 Lysimachia quadrifolia
 Maianthemum canadense 39, 37, 33, 31
 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 80
 Thalictrum dioicum
 Trientalis borealis
 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 Viburnum acerifolium
 Viola canadensis
 Viola cucullata INCOGNITA 10
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides
 ACER SPIC 55

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO.

Abies balsamea
Acer rubrum
Acer saccharum
Acer spicatum
Amelanchier sp.
Betula lutea
Betula papyrifera
Caprinus caroliniana
Carya cordiformis
Crategeus 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
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
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 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
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

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3197

X *Abies balsamea*
 X *Acer rubrum*
 X *Acer saccharum*
 X *Acer spicatum*
Amelanchier sp.
 X *Betula lutea*
 X *Betula papyrifera*
Caprinus caroliniana
Carya cordiformis
Crategeus 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
 X *Prunus pennsylvanica*
Prunus serotina

Prunus virginiana
Quercus alba
Quercus ellipsoidalis
Quercus macrocarpa
 X *Quercus rubra*
Sorbus decora
 X *Thuja occidentalis*
Tilia americana
Tsuga canadensis
Ulmus americana
Ulmus fulva
 X *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
 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
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 DISJUNCTA
 X *Dryopteris linneana*
 X *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
 X *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*
 X *Lycopodium clavatum*
Lycopodium complanatum
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
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
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: