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Site 3292: Sand Island, Bayfield County. 1957-08-03

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3292

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 3248

Name: Sand Island
 County: Bayfield County
 Date: August 3, 1957
 Size of Stand:
 Forest Type:
 Topography:

Locality: west side north peninsula
 T: R: Sec:
 Observers: Reals, Cottam, Cook, Rogers
 Size of Area Sampled:
 Soil Type:
 Slope: Directions:

Condition of 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									

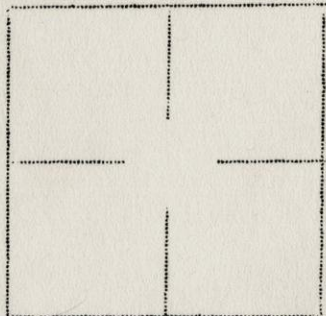
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1/8	
A ₁	3/4	
A ₂	1/2	
B	Red sand	

Parent Material:

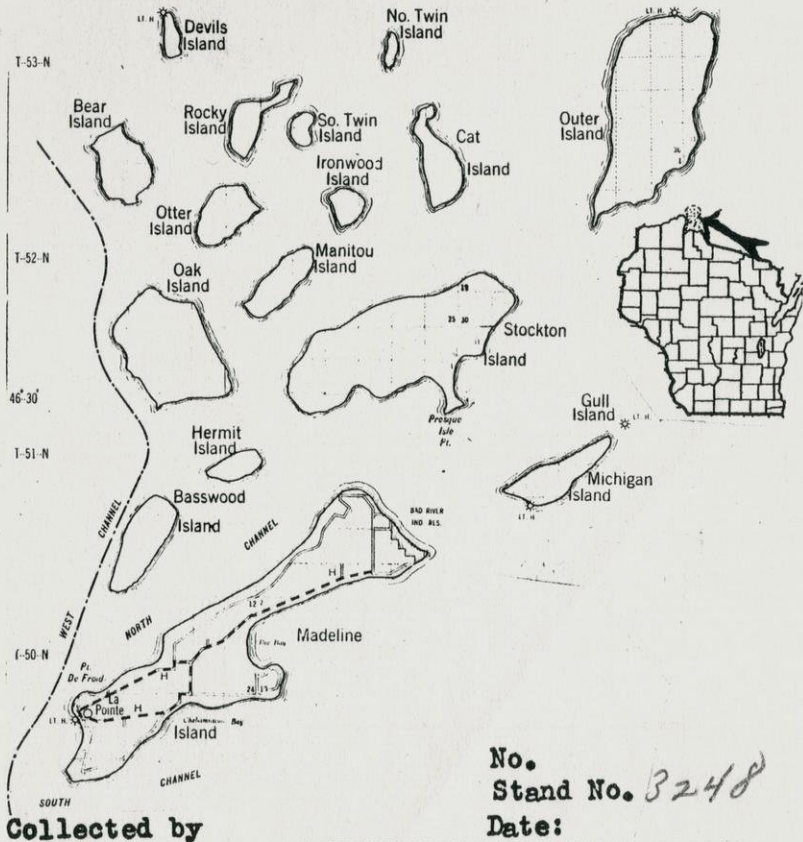
Map:



(High 50 15 10 20
 Light Int Low 50 30 15 35 25
 55)

Oak 135 High

APOSTLE ISLANDS in LAKE SUPERIOR



Northern Pine-Hardwoods

Station Number: 3248

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	12	12			249	104	65.0	15		10.1	7.5	3.0	20.6	
Acer rubru	15	21	20	1		992	6	3.8	35		16.9	13.1	12.1	42.1	
A. sacchar															
A. spicatu															
Betula lut	18	24	22		2	1424	31	19.4	5		20.2	15.0	17.4	52.6	
B. papyrif	39	95	89	6		4068	10	6.3	10		43.8	59.4	49.6	152.8	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinos															
P. Strobus	1	1			1	890					1.1	0.6	10.9	12.6	
Populus ba															
P. grandid	1	1	1			55					1.1	0.6	0.7	2.4	
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra	1	1		1		360					1.1	0.4	4.4	6.1	
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Sorbus	5	5	5			163	9	5.6			5.6	3.1	2.0	10.7	
Amelanchier									5						
	89					8201									
															1761

AVE. DIST. BTW'N TREES:

10.0'
9.7'

AVE B. A.:

51.3

TREES/ACRE:

435.6

DOM./ACRE:

22,346

155.2

POINT RECORD TREES APOSTLE ISLANDS

3248

Point Number	1	2	3	4	5	6	7	8	9	10
<i>Abies balsamea</i>										
<i>Acer rubrum</i>					55					38
<i>Acer saccharum</i>										
<i>Betula lutea</i>				50 22	540	35	22		30 25	
<i>Betula papyrifera</i>	65 20 38 95	38 16 17	70 22 60 60	50 55	90 185	45 90 55	23 40 140	14 12 14	28 46	50 40 30
<i>Quercus rubra</i>		360								
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
<i>Pinus strobus</i>							890	890		
<i>Larix</i>										
Tree distance	7 7 12	16 10 13	5 6 7 18	6 11 28	23 19 20 19	9 7 16	5 6 9 16	8 3 8 13	11 10 13	4 19 10
Sapling distance	4 7 6 4	5 6 3 12	2 7 7 5	3 8 5 7	25 23 33 48	7 11 14 13	3 8 3 6	3 4 6 7	11 15 15 23	7 10 6 10

2

7

29

1

1

1289

744

POINT RECORD TREES APOSTLE ISLANDS

3248

Point Number	1	2	3	4	5	6	7	8	9	20
<i>Abies balsamea</i>						12		23		
<i>Acer rubrum</i>	11 30	1 26 19	III	III 28 40	II	III	III ✓	III	III	III 19
<i>Acer saccharum</i>		1								
<i>Betula lutea</i>		29	✓		20 27		19			
<i>Betula papyrifera</i>	11 45 30 58	11 30	65 55 40 160	45 55	42	35 55	19 50 28 28	55 35 60	15 12 15	70 14 22
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
<i>Sorbus</i>					30	15				
<i>Pop grand.</i>									53	
Tree distance	5 7 7 8	12 11 7 9	3 9 10 5	7 8 10 17	6 8 8 9	5 5 8 9	3 7 12 13	5 7 12	2 2 5 8	5 8 8 12
Sapling distance	3 12 14 8	7 7 6 13	7 6 9 11	7 2 8 4	9 5 12 11	4 8 3 13	6 4 13 12	5 7 14 12	10 11 14 13	5 8 10 9

2

C

3

26

2

1595

342

POINT RECORD TREES APOSTLE ISLANDS

Point Number	21	2	3	4	5	6	7	8	9	30
<i>Abies balsamea</i>		3 22 18	4	1 19 15	4	1	2	4	13 3	2
<i>Acer rubrum</i>	75 190		45	1 13					1 50	
<i>Acer saccharum</i>										
<i>Betula lutea</i>	15 1		18 20		350 3	14 17	15 4	20		35 35
<i>Betula papyrifera</i>		40 18	26 (2)	40	12 12 65	65 55	65 75 50	25 90 60	40 28 22	35
<i>Quercus rubra</i>										
<i>Tsuga canadensis</i>										
<i>Thuja occidentalis</i>										
<i>Sorbus americana</i>	60									1
Tree distance	7 15 33 13	3 10- 12- 9	5- 14- 8 10	8 10- 12- 14	7 13- 10- 14	5- 9- 6 15	3 4 5 6	4 18 11 10-	5 9 9 9-	14 13- 13- 6
Sapling distance	5 10 15 19	1 8 7 9-	2- 8 6 16	8 26 18 16	8 15 8 7	6 28 11- 20	7 14 23 19	6 3 5 11	5 8 14- 5	5 12 13 26

3248

5

5

10

19

953

1203

3248

Point Number	31	2	3	4	5	6	7	8	9	40	
<i>Abies balsamea</i>	4		30 16	3	30	28	1	1	23	2	5
<i>Acer rubrum</i>	60	2			35 75		50	19 35	50 40		8
<i>Acer saccharum</i>											
<i>Betula lutea</i>		16	2	1	1	25	25	1	1	19	4
<i>Betula papyrifera</i>	40 75 15	55 19 45	35 35	12 22 24 25	45	65 35	30	35	55	25 18 39	21
<i>Quercus rubra</i>											
<i>Tsuga canadensis</i>											
<i>Thuja occidentalis</i>											
<i>Spina americana</i>			1				23	35	1	2	2
Tree distance	8- 13- 8- 4	5 10 10- 19	7 11- 6 8-	3 7 17 11-	3- 21 19 27	5- 12- 12 6	14 17 20 10-	4 14 6 17	4 19 4 23	3 5 8- 19	446
Sapling distance	1 7 4 6	3 22 11 12	9- 10 14 16	4 2 11 10	7 13- 22 33	3- 5 6 10-	5 11 10 13	4 5 7 3	3 6 5 15	5 5 4 8	155

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3248
Quadrat No.

1-10

<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> 5	<i>Smilacina stellata</i>
<i>Circaea latifolia</i>	<i>Lycopodium lucidulum</i> 3	<i>Smilax ecirrhata</i>
<i>Clintonia borealis</i> 1579	<i>Lycopodium obscurum</i> 59	<i>Solidago ulmifolia</i>
<i>Coptis trifolia</i>	<i>Lysimachia quadrifolia</i>	<i>Streptopus roseus</i>
<i>Corallorrhiza maculata</i>	<i>Maianthemum canadense</i> 1	<i>Taxus canadensis</i> 3579
<i>Cornus alternifolia</i>	<i>Mitchella repens</i>	<i>Thalictrum dioicum</i>
<i>Cornus canadensis</i> 5	<i>Mitella diphylla</i>	<i>Trientalis borealis</i> 5
<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>
<i>Dryopteris spinulosa</i> 57	<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 spic 1, 3 9

Goodyera sp 9

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3248
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 13 15 17 19
Coptis trifolia 13
Corallorrhiza maculata
Cornus alternifolia
Cornus canadensis
Cornus rugosa
Corylus americana
Corylus cornuta
Cypripedium acaule
Diervilla lonicera
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
Dryopteris spinulosa 13 15 19
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 17
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum 13 17
Lysimachia quadrifolia
Maianthemum canadense 13 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
Taxus canadensis 11, 15 17
Thalictrum dioicum
Trientalis borealis 13 19
Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

Acer spic 13 17 19
Carex sp 13

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 8248
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>	<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>	/ <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>
<i>Dryopteris linnaeana</i>	<i>Oxalis montana</i>	<i>Viola canadensis</i>
<i>Dryopteris phegopteris</i>	<i>Phryma leptostachya</i>	<i>Viola cucullata</i>
// <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>

~~/// *Acer rubrum*~~
~~1 *Abrus alba*~~
~~1 *Acer spin*~~
~~1 *Amelanchier*~~

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3248
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
 / 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
 Lycopodium annotinum
 Lycopodium complanatum
 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
 // 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

+ ~~Act. rubra~~
 // ~~Abies bals.~~
 HH ~~Act. spic.~~

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3248

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

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
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 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

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

Additional Species:

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

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SA = Sorbus

21	AC	1	AC	1	AC	2	SA	6
22	AB	2	AB	5	BP	5	AB	4
23	TX	1	TX	1	TX	1/2	TX	1/2
24	TX	0	TX	1/2	TX	1/2	TX	1/2
25	TX	2	TX	1	TX	2	TX	0
26	TX	1	TX	1	AC	1	TX	2
27	TX	0	TX	0	TX	1/2	TX	1/2
28	AB	3	AB	3	AC	6	AC	8
29	TX	1/2	TX	1	TX	1/2	TX	1/2
30	AC	2	AC	3	AC	1	AC	2
31	TX	1	TX	1	TX	0	TX	1/2
32	AC	1	AC	2	AC	3	AC	3
33	AC	2	BP	3	AC	3	AC	4
34	TX	3	TX	6	TX	3	TX	7
35	TX	1	TX	1	TX	1	TX	0
36	TX	1	TX	1	TX	1	TX	2
37	AC	1	AC	2	AC	2	AC	1
38	TX	1	AC	2	AC	3	TX	4
39	AC	1	AC	1	AC	1	AC	1
40	AC	1/2	AR	0	AC	2	TX	3

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are dis. 31 71'

21	AB	10	AS	8	AS	7	T	11
22	AB	8-	AB	4	T	7	AB	22
23	AB	2	LC	5	LC	6	AS	5
24	AS	4	AS	3	AS	6	AB	13
25	BL	10	BP	17	BL	6	T	6
26	AS	5	AS	4	AS	5	T	1-
27	T	3	T	1-	T	2	T	4
28	T	0	AS	3	AS	2-	T	14-
29	AB	2	AB	5	AB	6	AB	7
30	AS	1/2	AS	1/2	AS	4	T	9-
31	T	3	LC	5	PA	4	AS	22
32	T	2	T	6	T	3	PA	4
33	AS	2-	AS	9	T	6	T	8
34	AS	3	AS	5	AS	5	AS	5
35	T	3	AS	4	AS	3	T	1
36	AS	5	T	8-	T	6	AS	23
37	T	1	T	1-	AS	3	PA	12
38	T	1	AB	2	T	1	PA	7
39	AB	1	T	3	T	4	T	11-
40	AR	2	AR	3	AB	4	AB	4-

PS = Pinus strobus ³¹⁵

PA = Sorbus americana

PG = Picea glauca

LC = Lonicera canadensis
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