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white pine seedling

CONIFER SWAMP

Ecology Form # 71

Stand # 104-Aug 1-54

no
reprod.
par. like

Redox

Conduc.

Cat.Cap.

Location Bayfield
45N 8W 35
3.4 mi from Fed Road 63
% Cover 15

pH

02

36" Bore

Basal Area

Larix	Picea	Thuja	Pop.tr.	Betula pap.	Distances
4	6.5 4.5				24, 3.75, 2.5
4.5	5				9.25, 22, 11.5,
	6 5 5.5				5, 6.25, 4.75
	5.5 4.5				2.5, 9.75, 5,
	4 4 5.5				2, 5, 4.75
	4 6				3.25, 2, 3.75,
	4 6.6.5				7.5, 17, 22,
	4 6				1.5, 3.75, 5.25,
	4 4.5 4.5				8.75, 10.75, 19,
	5 4.5				3.5, 6, 7.5
	4 4 5				9.75, 3.75, 7,
	4 4				7.5, 7, 3
	5 4 6.5				5.5, 12.25, 3.5
	5 4				2.5, 2.75, 15.25
	4 4.5 5				8, 6.5, 3.75
	5 4				7, 4.25, 2.75
	6.5 5 6				4.75, 3.25, 3.25
	4.5 7.5				9.75, 3, 4.25
	4 6 4.5				3, 2.75, 1
	5.5 5				8.5, 14, 20
	4.5 6.5 5.5				
	4 5				
	4.5 4 4.5				
	6 5				
	6.5 4 4				
	6.5 6.5				
	4 5 4				
	6 4.5				
	5 6 4				
	5.5 5				
	4.5 5 6.5				
	4.5 6.5				
	5 6 4.5				
	5.5 5				
	4 4 4.5				
	6 5.5				
	4.5 5 4.5				
	5.5 4				
TOTALS	6 4 6				
	4 5				

Sketch Map:

Pigeonhole
dog. A
ca 4m

Drummond
63

Plant Ecology Laboratory
Data Form 68

Station No. 5104

Tree	No.		Size Cl. sq. in.			No.	F%	F%	D%	Dom%	DFD
	Pts.	Tr.	80	81-	321+	Dom.	Sap.	Seed	Tr.	Tr.	Index
Abies balsamea											
Acer rubrum											
Acer spicatum											
Betula lutea											
B. papyrifera											
Carya cord.											
C. ovata											
Fraxinus nigra											
Juglans cinerea											
Larix laricina	1	2	2			28			4.8	2	1.4 8.2 8
Picea glauca											
P. mariana	20	98	98			1976			95.2	98	98.6 291.8 300
Pinus resinosa											
P. strobus											
Pop. balsamifera											
P. grand.											
P. trem.											
Prunus serotina											
Pyrus americana											
Quercus bicolor											
Q. rubra											
Thuja occ.											
Tilia americana											
Tsuga can.											
Ulmus americana											
U. rubra											

8-2

300

583.6

591.8

Total tran.

21

Av. Tr. Dis.

2004

Av. BA

No. Tr./Acre

301

300

Larry

104

4 1

5 1

6

7

8

28

Preca

2

4	 	27.12
5	 	17.16
6	 	20.20
7	 	9.24
8	 	13.28
9	 	9.34
10	 	1.44

96 1926

4	 	26-
5	 	17
6	 	20
7	 	9
8	 	13
9	 	10
10	 	1
11	 	98

4	 	27.12
5	 	18.16
6	 	20.20
7	 	9.24
8	 	13.28
9	 	10.34
10	 	1.44

98 1974

CONIFER SWAMP

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
<i>Achillea millefolium</i>																							
<i>Actaea</i> sp.																							
<i>Adiantum pedatum</i>																							
<i>Agrostis gigantea</i>																							
<i>Agrostis perennans</i>																							
<i>Agrostis scabra</i>																							
<i>Alnus rugosa</i>																							
<i>Amphicarpa bracteata</i>																							
<i>Anaphalis margaritacea</i>																							
<i>Andromeda glaucophylla</i>	✓		✓													✓				✓		3	
<i>Anemone canadensis</i>																							
<i>Anemone riparia</i>																							
<i>Anemone virginiana</i>																							
<i>Angelica atropurpurea</i>																							
<i>Aralia hispida</i>																							
<i>Aralia nudicaulis</i>																							
<i>Arethusa bulbosa</i>																							
<i>Arisaema atrorubens</i>																							
<i>Asclepias incarnata</i>																							
<i>Asclepias syriaca</i>																							
<i>Asparagus officinalis</i>																							
<i>Aster junciformis</i>																							
<i>Aster lateriflorus</i>																							
<i>Aster macrophyllus</i>																							
<i>Aster novae-angliae</i>																							
<i>Aster umbellatus</i>																							
<i>Athyrium filix-femina</i>																							
<i>Barbarea vulgaris</i>																							
<i>Betula pumila</i>																							
<i>Bidens comosa</i>																							
<i>Bidens connata</i>																							
<i>Bidens coronata</i>																							
<i>Boehmeria cylindrica</i>																							
<i>Botrychium virginianum</i>																							
<i>Brachyelytrum erectum</i>																							
<i>Bromus ciliatus</i>																							
<i>Calamagrostis canadensi</i>																							
<i>Calla palustris</i>	✓																						
<i>Calopogon pulchellus</i>																							
<i>Caltha palustris</i>																							
<i>Campanula aparinoides</i>																							
<i>Carex aquatilis</i>																							
<i>Carex arcta</i>																							
<i>Carex bebbii</i>																							
<i>Carex brunnescens</i>																							
<i>Carex cephalantha</i>																							
<i>Carex comosa</i>																							
<i>Carex crinita</i>																							
<i>Carex c. var. gynandra</i>																							
<i>Carex debilis</i>																							
<i>Carex deweyana</i>																							

[illegible]

C. notata

TABULATION FORM

CONIFER SWAMP

Stand No. 5104

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5104

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ino sp.	/																				
Hystrix patula																					
Ilex verticillata																					
Impatiens capensis																					
Iris versicolor																					
Iris virginica																					
Juncus canadensis																					
Juncus effusus																					
Juncus tenuis																					
Juniperus communis var.																					
Kalmia polifolia	/	/	/			/		/	/	/	/	/	/	/	/	/	/	/	/	/	15
Lactuca biennis																					
Lathyrus palustris																					
Ledum groenlandicum	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	19
Leersia oryzoides																					
Linnaea borealis																					
Liparis loeselii																					
Listera cordata																					
Lobelia siphilitica																					
Lonicera canadensis																					
Lonicera dioica																					
Lonicera oblongifolia																					
Lonicera villosa																					
Luzula acuminata																					
Lycopodium annotinum																					
Lycopodium clavatum																					
Lycopodium lucidulum																					
Lycopodium obscurum																					
Lycopus uniflorus																					
Lysimachia ciliata																					
Lysimachia hybrida																					
Lysimachia quadriflora																					
Lysimachia terrestris																					
Lysimachia thyrsiflora																					
Maianthemum canadense																					
Malaxis unifolia																					
Melampyrum lineare																					
Menvanthes trifoliata																					
Mimulus ringens																					
Mitchella repens																					
Mitella diphylla																					
Mitella nuda																					
Moneses uniflora																					
Monotropa hypopithys																					
Monotropa uniflora	/									/											1
Muhlenbergia mexicana																					
Muhlenbergia racemosa																					
Myrica gale																					
Nasturtium officinale																					
Nemopanthus mucronata																					
Onoclea sensibilis																					
Osmunda cinnamomea																					

TABULATION FORM

CONIFER SWAMP

Stand No. 5104

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
<i>Osmunda regalis</i>																							
<i>Oxalis montana</i>																							
<i>Oxalis stricta</i>																							
<i>Panicum boreale</i>																							
<i>Panicum lanuginosum</i> var.																							
<i>Parietaria pensylvanicum</i>																							
<i>Parthenocissus inserta</i>																							
<i>Pedicularis lanceolatus</i>																							
<i>Penthorum sedoides</i>																							
<i>Phalaris arundinacea</i>																							
<i>Phleum pratense</i>																							
<i>Phragmites communis</i>																							
<i>Physocarpus opulifolius</i>																							
<i>Pilea pumila</i>																							
<i>Poa palustris</i>																							
<i>Poa pratensis</i>																							
<i>Pogonia ophioglossoides</i>																							
<i>Polygala paucifolia</i>																							
<i>Polygonatum pubescens</i>																							
<i>Polygonum convolvulus</i>																							
<i>Polygonum amphibium</i> var.																							
<i>Polygonum sagittatum</i>																							
<i>Potentilla fruticosa</i>																							
<i>Potentilla palustris</i>																							
<i>Prenanthes alba</i>																							
<i>Prunella vulgaris</i>																							
<i>Prunus pensylvanicum</i>																							
<i>Prunus virginiana</i>																							
<i>Pteridium aquilinum</i>																							
<i>Pycnanthemum virginianum</i>																							
<i>Pyrola asarifolia</i>																							
<i>Pyrola elliptica</i>																							
<i>Pyrola rotundifolia</i>																							
<i>Pyrola secunda</i>																							
<i>Pyrus floribunda</i>																							
<i>Pyrus melanocarpa</i>																							
<i>Ranunculus abortivus</i>																							
<i>Ranunculus hispidus</i>																							
<i>Rhamnus alnifolia</i>																							
<i>Rhus radicans</i>																							
<i>Rhus vernix</i>																							
<i>Rhynchospora alba</i>																							
<i>Ribes americanum</i>																							
<i>Ribes cynosbati</i>																							
<i>Ribes hirtellum</i>																							
<i>Ribes lacustre</i>																							
<i>Ribes triste</i>		✓																			✓		
<i>Rosa carolina</i>																							
<i>Rubus allegheniensis</i>																							
<i>Rubus idaeus</i>																							
<i>Rubus occidentalis</i>																							

CONIFER SWAMP

[illegible]

[illegible]

PRESENCE LIST

CONIFER BOG

Stand No. 104-

Aug. 1-54

Abies balsamea
Acer rubrum
Acer spicatum
Betula lutea
Betula papyrifera *seedling 20,*
Carya cordiformis
Fraxinus nigra

Juglans cinerea
Larix laricina
Picea glauca
Picea mariana
Pinus resinosa
Pinus strobus *seedling & adult*
Populus tremuloides

Prunus serotina
Quercus bicolor
Quercus rubra *seedling*
Sorbus americana
Thuja occidentalis
Tsuga canadensis
Ulmus americana

HERBS AND SHRUBS

Alnus incana
Alnus rugosa
Andromeda glaucophylla *15, 19,*
Anemone canadensis
Aralia hispida
Aralia nudicaulis
Arceuthobium pusillum
Arctostaphylos uva-ursi
Arethusa bulbosa
Arisaema atrorubens
Asclepias incarnata
Aster lateriflorus
Aster novae-angliae
Aster umbellatus
Betula pumila
Betula sandbergii
Bidens coronata
Boehmeria cylindrica
Botrychium virginianum
Bromus ciliatus
Calamagrostis canadensis
Calla palustris
Calopogon pulchellus
Caltha palustris
Campanula aparinoides
Chamaedaphne calyculata *12, 8, 17, 20*
Chiogenes hispidula *26, 28, 9, 10, 11, 12,*
Cicuta bulbifera *13, 20,*
Cicuta maculata
Circaea alpina
Cirsium muticum
Clintonia borealis
Coptis trifolia
Corallorrhiza trifida
Cornus canadensis
Cornus obliqua
Cornus stolonifera
Cypripedium acaule
Cypripedium arietinum
Cypripedium parviflorum
Cypripedium pubescens
Cypripedium reginae
Decodon verticillatus
Diervilla lonicera
Drosera intermedia
Drosera longifolia
Drosera rotundifolia *6, 7, 8,*
Dryopteris linneana

Dryopteris phegopteris
Dryopteris spinulosa
Dryopteris thelypteris
Dulichium arundinaceum
Epigaea repens
Epilobium adenocaulon
Epilobium angustifolium
Epilobium densum
Equisetum scirpoides
Eriophorum angustifolium *14, 15, 17, 18,*
Eriophorum virginicum *3, 4, 5, 7, 8, 9, 10, 12,*
Eriophorum viridi-carinatum
Eupatorium perfoliatum
Eupatorium maculatum
Galium aparine
Galium concinnum
Galium labradoricum
Galium trifidum
Gaultheria procumbens
Gaylussacia baccata
Gentiana linearis
Geum rivale
Glyceria striata
Goodyera repens
Habenaria clavellata
Habenaria dilatata
Habenaria hyperborea
Habenaria lacera
Habenaria leucophaea
Habenaria media
Habenaria obtusata
Habenaria psycodes
Halenia deflexa
Helenium autumnale
Hypericum virginicum *4, 3,*
Ilex verticillata *2, 3, 4,*
Impatiens biflora *6, 7, 8,*
Iris versicolor
Iris virginica
Juncus tenuis *14, 17, 18, 19, 20,*
Kalmia polifolia *1, 2, 6, 8, 9, 10, 11, 12, 14, 15,*
Ledum groenlandicum *12, 3, 4, 5, 6, 7, 8, 10, 11, 12,*
Leersia oryzoides *13, 14, 15, 16, 17, 18, 19,*
Linnaea borealis *20,*
Liparis loeselii
Listera cordata
Lobelia kalmii
Lobelia siphilitica

Lonicera caerulea
Lonicera oblongifolia
Lycopus uniflorus
Lysimachia terrestris
Maianthemum canadense
Malaxis unifolia
Menyanthes trifoliata
Mimulus ringens
Mitchella repens
Mitella nuda
Moneses uniflora
Muhlenbergia mexicana
Muhlenbergia racemosa
Myrica gale
Nemopanthus mucronata
Onoclea sensibilis
Osmunda cinnamomea
Osmunda regalis
Parnassia caroliniana
Parthenocissus vitacea
Pedicularis lanceolata
Phalaris arundinacea
Physocarpus opulifolius
Poa palustris
Pogonia ophioglossoides
Polygala pauciflora
Potentilla palustris
Prenanthes alba
Pyrola asarifolia
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus abortivus
Rhamnus alnifolia
Rhus radicans
Rhus vernix
Ribes americanum
Ribes cynosbati
Ribes hirtellum
Ribes lacustre
Ribes triste *30,*
Rorippa palustris
Rosa caroliniana
Rubus idaeus
Rubus triflorus
Rynchospora alba
Salix candida
Sarracenia purpurea *17,*

Saxifraga pennsylvanica	✓ Smilacina trifolia 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12,	Typha latifolia
✓ Scirpus cyperinus	Smilax herbacea 13, 14, 15, 16, 17, 18, 19, 20,	Vaccinium angustifolium 8, 10, 11,
Scirpus acutus	Solidago serotina	Vaccinium macrocarpon
Scirpus hudsonianus	Spiraea alba	✓ Vaccinium oxycoccus 1, 3, 4, 6, 8, 9, 11,
Scirpus rubrotinctus	Spiraea tomentosa	Vaccinium pennsylvanicum 12, 13, 14,
Scirpus validus	Steironema lanceolatum	Viburnum opulus 15, 16, 18, 19, 20,
Scutellaria epilobifolia	Symplocarpus foetidus	Viola canadensis
Scutellaria lateriflora	Thalictrum dasycarpum	Viola pallens
Selaginella selaginoides	Trientalis borealis	Vitis riparia
Sium suave	Triglochin maritima	

Additional species:

- Sphagnum 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
 ✓ Sphagnum canadensis
 ✓ Carex tri-sperma 3, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,
 Carex lasiocarpa 2, 7, 8, 18, 19,
 Anisophyllum spigum 1, 3, 4, 7, 11, 14, 15,
 ✓ Carex ~~sp. parviflora~~ ^{parviflora} 4, 9, 18,
 ✓ Vac. m. 6, 12, 13,
 ✓ Monarda 9,
 Iris sp.
 ✓ Dryopteris crux
 ✓ Carex rostrata