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CONIFER SWAMP

Ecology Form # 71

Stand # 58 ^{very little} ^{repro - some} ^{young} ^{birch}

Field Data Sheet - Trees

Redox

Conduc.

Cat.Cap.

Location 41N 7E 19

pH

O2

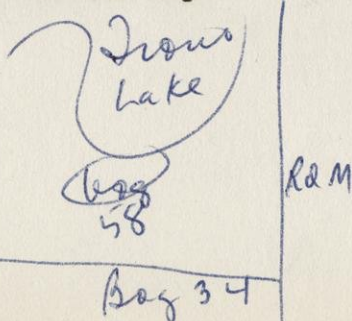
36" Bore ^{read}

% Cover 80%

Basal Area

Species	Basal Area	Picea	Thuja	Pop.tr.	Betula pap.	Alnus	Acer rub.	Distances
				8		5 7.5	6	9.5 18.0 12.5
				(113) 8		4 5	8	15.5 3.0 7.5
				8 7.5		4 5		12.0 18.0 12.5
	(113)		4	(64)		6	11	9.0 9.0 7.0
5.5	4		(113)			6		10.25 14.0 15.0
		4		(64)		5 4	12	15.5 7.5 9.25
				5		4 4		10.5 2.5 6.0
	4					4 5		8.0 2.0 20.0
						7 5		19.0 2.0 5.0
			(133)			4 5		20.0 1.0 18.0
	(133)		(113)			4 5		16.0 12.5 12.5
			(113)		8	6 (28)		7.5 18.0 12.0
5		5 7		(64) 5		4		11.0 10.5 5.0
		5		(133)		5 4		13.0 9.25 6.5
				6.5		5 5		7.0 8.0 18.5
	4			4		4 4		5.0 4.0 4.0
						4 5		13.5 12.0 7.5
	4		4 4			5 6		18.0 13.5 10.5
			8 6		4 6	4 4 4		10.5 12.0 7.5
					6	5 4		11.5 8.0 8.0
	4					6 6		242.2 211.7 209.7
TOTALS						5 5		

Sketch Map:



60 663.6
11.06 Ave Dist
122.3 H. Area
356.2 Trees/acre

Plant Ecology Laboratory
Data Form 68

Station No. 58 hds 122

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	19	56	56			1159			35.8	56	34.7	126.5	504 569.25
Acer rubrum	4	4	3	1		286			7.5	4	8.6	20.1	160 120.6
Acer spicatum													
Betula lutea	2	2		2		246			3.8	2	7.4	13.2	91 99.0
B. papyrifera	11	16	12	4		735			20.8	16	22.0	58.8	354 294.0
Carya cord.													
C. ovata													
Fraxinus nigra	5	5	5			60			9.4	5	1.8	16.2	112 81.0
Juglans cinerea													
Larix laricina													
Picea glauca													
P. mariana	1	1	1			20			1.9	1	0.6	3.5	4 7.0
Pinus resinosa													
P. strobus													
Pop. balsamifera													
P. grand.													
P. trem.	1	1		1		113			1.9	1	3.4	6.3	18 22.05
Prunus serotina													
Pyrus americana													
Quercus bicolor													
Q. rubra	2	2	2			44			3.8	2	1.3	2.1	56 56.0
Thuja occ.	8	13	9	4		676			15.1	13	20.2	48.3	192 193.2
Tilia americana													
Tsuga can.													
Ulmus americana													
U. rubra													

Total tran.

Av. Tr. Dis.

Av. BA

No. Tr./Acre

Sorbus

1.24

1.20

2.44

Berlut

113

133

2.246

Fax

4 III

5.12 =

5 60

Picea

5-1

1.20

1.20

Thuja

4 III

4-12

48

5 II

2.20

40

6 I

1.28

28

7 I

1.38

38

8 I

1.50

50

1

113

1

133

1

113

1

113

Asp tr

13

678

113

1

113

Ber pap

4 II

2.12 =

48

5 II

2.20

40

6 III

3.34

102

7 I

1.44

44

8 III

4.50

200

133

64

64

16

113

735

Abies

58

4 III III III III III

25.12 = 300

5 III III III III III

19.20 380

6 III III

8.28 24

7 I

1.38 38

8 I

1.44 44

1.95 95

1.78 98

Acer rub

56 1159

1.28

1.50

1.95

1.113

4 286

✓2

✓2

✓5

✓1

✓13

✓1

✓16

58

4

100

23
16
60

TABULATION FORM

CONIFER SWAMP

Stand No. 5058

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>		✓							✓									✓				2	
<i>Amphicarpa bracteata</i>																							
<i>Anaphalis margaritacea</i>																							
<i>Andromeda glaucophylla</i>																							
<i>Anemone canadensis</i>																							
<i>Anemone riparia</i>																							
<i>Anemone virginiana</i>																							
<i>Angelica atropurpurea</i>																							
<i>Aralia hispida</i>																							
<i>Aralia nudicaulis</i>		✓			✓		✓		✓				✓	✓								5	
<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>		✓					✓		✓	✓		✓										4	
<i>Aster novae-angliae</i>		✓							✓													1	
<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 canadensis</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>									✓				✓						✓			3	
<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>																							
<i>Carex acutata</i>		✓					✓		✓		✓	✓	✓	✓	✓				✓			7	

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		
Carex diandra																							
Carex disperma	✓	✓			✓				✓	✓	✓	✓	✓				✓		✓				9
Carex flava																							
Carex granularis var. ha																							
Carex hystericina																							
Carex interior																							
Carex intumescens	✓											✓		✓									2
Carex lacustris																							
Carex lasiocarpa																							
Carex leptalea																							
Carex leptonervia	✓							✓		✓													2
Carex limosa																							
Carex oligosperma																							
Carex pauciflora																							
Carex paupercula																							
Carex pedunculata																							
Carex projecta																							
Carex pseudo-cyperus																							
Carex retrorsa																							
Carex scoparia																							
Carex sterilis																							
Carex stipata																							
Carex stricta																							
Carex tenuiflora																							
Carex trisperma	✓		✓	✓	✓										✓				✓	✓			6
Carex tuckermani																							
Chamaedaphne calyculata																							
Chelone glabra																							
Cicuta bulbifera																							
Cicuta mukulata					/																		
Cinna latifolia																							
Circaea alpine	✓								✓				✓										2
Cirsium muticum																							
Clintonia borealis	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	14
Coptis groenlandica	✓	✓	✓		✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	16
Corallorrhiza trifida																							
Cornus alternifolia																							
Cornus canadensis	✓	✓			✓	✓	✓	✓			✓		✓	✓	✓		✓		✓				10
Cornus obliqua																							
Cornus racemosa																							
Cornus stolonifera																							
Cypripedium acaule																							
Cypripedium arietnum																							
Cypripedium calceolus																							
Cypripedium c var. pub																							
Cypripedium reginae																							
Cystopteris fragilis																							
Diervilla lonicera	✓								✓														1
Drosera intermedia																							
Drosera linearis																							
Drosera rotundifolia																							

TABULATION FORM

CONIFER SWAMP

Stand No. 5058

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Dryopteris cristata																						
Dryopteris disjuncta	✓												✓									1
Dryopteris phegopteris																						
Dryopteris spinulosa	✓	✓					✓		✓			✓	✓				✓		✓	✓	✓	8
Dryopteris thelypteris																						
Dulichium arundinaceum																						
Echinocystis lobata																						
Eleocharis smallii																						
Epigaea repens																						
Epilobium angustifolium																						
Epilobium glandulosum va																						
Epilobium strictum																						
Equisetum fluviatile	✓									✓	✓	✓	✓	✓								5
Equisetum scirpoides																						
Erigeron philadelphicus																						
Eriophorum angustifolium																						
Eriophorum spissum																						
Eriophorum tenellum																						
Eriophorum virginicum																						
Eriophorum viridi-carina																						
Eupatorium maculatum																						
Eupatorium perfoliatum																						
Galium aparine																						
Galium boreale																						
Galium concinnum																						
Galium labradoricum																						
Galium trifidum																						
Galium triflorum	✓										✓	✓	✓		✓							4
Galeopsis tetrahit																						
Gaultheria hispidula		✓																				1
Gaultheria procumbens																						
Gaylussacia baccata																						
Gentiana linearis																						
Geranium maculatum																						
Geum laciniatum																						
Geum rivale																						
Glyceria canadensis																						
Glyceria grandis																						
Glyceria striata																						
Goodyera repens																						
Habenaria clavellata																						
Habenaria dilatata																						
Habenaria hyperborea																						
Habenaria lacera																						
Habenaria leucophaea																						
Habenaria media																						
Habenaria obtusata																						
Habenaria psycodes																						
Halenia deflexa																						
Hydrocotyle americana																						
Hypericum virginicum																						

TABULATION FORM

CONIFER SWAMP

Stand No. 5058

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

TABULATION FORM

CONIFER SWAMP

Stand No. 5058

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5058

[illegible]

[illegible]

PRESENCE LIST

CONIFER BOG

Stand No. 58

✓ *Abies balsamea*
✓ *Acer rubrum* 4, 19
✓ *Acer spicatum* 1, 2, 7, 9, 12, 13, 14, 15, 18
✓ *Betula lutea*
✓ *Betula papyrifera* 11
✓ *Carya cordiformis*
✓ *Fraxinus nigra* sup 3, 11

Juglans cinerea
Larix laricina
Picea glauca
Picea mariana
Pinus resinosa
Pinus strobus
✓ *Populus tremuloides* 16

Prunus serotina
Quercus bicolor
Quercus rubra
✓ *Sorbus americana* 2, 36, 12
✓ *Thuja occidentalis*
Tsuga canadensis
Ulmus americana

HERBS AND SHRUBS

1.1 10 ✓ *Alnus incana*
✓ *Alnus rugosa* 8, 19
Andromeda glaucophylla
Anemone canadensis
2.8 25 ✓ *Aralia hispida* 4
✓ *Aralia nudicaulis* 4, 6, 8, 12, 13
Arceuthobium pusillum
Arctostaphylos uva-ursi
Arethusa bulbosa
Arisaema atrorubens
Asclepias incarnata
Aster lateriflorus
1.6 5 ✓ *Aster novae-angliae* 8
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
Chiogenes hispidula
Cicuta bulbifera
Cicuta maculata
1.1 10 *Circaea alpina* 8, 12
Cirsium muticum 14, 15, 18, 19, 20
7.9 70 ✓ *Clintonia borealis* 3, 5, 7, 8, 10, 11, 12, 13
9.0 80 ✓ *Coptis trifolia* 1, 2, 4, 6, 7, 8, 10, 11, 12, 13
Corallorrhiza trifida 14, 15, 16, 18, 19, 20
5.6 50 ✓ *Cornus canadensis* 15, 16, 9, 10, 12, 13, 14
Cornus obliqua 17, 19, 2.3 2.0
Cornus stolonifera
Cypripedium acaule 1.1 10
Cypripedium arietinum
Cypripedium parviflorum
Cypripedium pubescens
Cypripedium reginae
Decodon verticillatus
Diervilla lonicera 7
Drosera intermedia
Drosera longifolia
Drosera rotundifolia
4.5 5 ✓ *Dryopteris linneana* disj 13

Dryopteris phegopteris
Dryopteris spinulosa 1, 6, 8, 11, 13, 16, 19, 20
✓ *Dryopteris thelypteris* 1.1 10
Dulichium arundinaceum
Epigaea repens
Epilobium adenocaulon
Epilobium angustifolium
Epilobium densum
Equisetum scirpoides
Eriophorum angustifolium 1.1 10
Eriophorum virginicum
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
✓ *Ilex verticillata*
Impatiens biflora 14, 15, 16, 17
1.1 10 ✓ *Iris versicolor* sp 1, 4
Iris virginica
Juncus tenuis
Kalmia polifolia
Ledum groenlandicum
Leersia oryzoides
1.6 5 ✓ *Linnaea borealis* 14
Liparis loeselii
Listera cordata
Lobelia kalmii
Lobelia siphilitica

Lonicera caerulea
Lonicera oblongifolia
Lycopus uniflorus 12, 18
Lysimachia terrestris
9.0 80 ✓ *Maianthemum canadense* 1, 2, 3, 4, 5, 6, 7, 9, 11
Malaxis unifolia 12, 13, 16, 17, 18
Menyanthes trifoliata 19, 20
Mimulus ringens
Mitchella repens
1.1 10 ✓ *Mitella nuda* 11, 12
Moneses uniflora
Muhlenbergia mexicana
Muhlenbergia racemosa
Myrica gale
✓ *Nemopanthus mucronata*
Onoclea sensibilis
5.1 45 ✓ *Osmunda cinnamomea* 2, 5, 7, 8, 9, 10, 15, 19
Osmunda regalis 20
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
Rorippa palustris
Rosa caroliniana
Rubus idaeus
7.9 70 ✓ *Rubus triflorus* 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Rhynchospora alba 14, 15, 18
Salix candida
Sarracenia purpurea

Data Form No. 22 (P.2)

Saxifraga pennsylvanica	1.6 5	Smilacina trifolia 2,	Typha latifolia
Scirpus cyperinus		Smilax herbacea	Vaccinium angustifolium
Scirpus acutus	1.6 5	Solidago serotina 13,	Vaccinium macrocarpon
Scirpus hudsonianus		Spiraea alba	Vaccinium oxycoccus
Scirpus rubrotinctus		Spiraea tomentosa	Vaccinium pennsylvanicum
Scirpus validus		Steironema lanceolatum	Viburnum opulus
Scutellaria epilobifolia		Symplocarpus foetidus	Viola canadensis
Scutellaria lateriflora		Thalictrum dasycarpum	Viola pallens 8, 10, 11, 13, 14, 16
Selaginella selaginoides	4.0 35	Trientalis borealis 3, 6, 7, 9, 13, 19, 20	Vitis riparia
Sium suave		Triglochin maritima	

Additional species:

- 2.3 20 ✓ Aster mac 6, 8, 9, 11,
- 2.3 20 ✓ Galium triflorum 10, 11, 12, 14,
- 5.4 5 ✓ Carex diop 1, 4, 8, 9, 10, 11, 12, 16, 18.
- 2.8 25 ✓ Equis flex 9, 10, 11, 12, 13,
- 1.1 10 ✓ Lonicera can 12, 14,
- ✓ Vacci myrt
- 1.1 10 ✓ Carex ~~intumescens~~ 11, 13,
- ~~Aster~~
- 3.4 30 ✓ Carex triop 2, 3, 4, 14, 19, 20
- 1.1 10 ✓ shrub 5, 19,
- 4.0 35 ✓ Carex ~~pumila~~ ^{aristata} 6, 8, 10, 11, 13, 14, 19,
- 1.6 5 ~~brachy~~
- 1.6 5 grass 15,
- 5.6 50 ~~sp~~
- C. ~~brunneescens~~ 6, 19, 12
- 7 885
- ✓ C. erinita v gynandra.
- ✓ C. leptoneuria 7, 9
- C. ~~brunneescens~~ 12