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Reprod. almost nil - no saplings

Clear-flowing stream

Ecology Form # 71

CONIFER SWAMP

Stand #

July 30-54

Field Data Sheet - Trees

Redox

Conduc.

Cat.Cap.

Location

pH

02

36" Bore

quad 1 - rocks at 8"

% Cover

80

Basal Area

Larix Picea Thuja Pop.tr. Betula pap. Abies

Distances

TOTALS

Sketch Map:

S

Brule

101

Douglas
46N11W36

Larix	Picea	Thuja	Pop.tr.	Betula pap.	Abies	Distances
		7			45 75	4, 14.75, 3.75
		60			130	
		80			55	21, 8, 14,
		4			4 65	
		6 70			6 6.5	5.75, 6.25, 7.5
		90			6 55	3.25, 6.5, 7.5,
		90			5.5	7, 15.25, 11
				150	7 6.5	5.75, 5.5, 10.25
					4.5 6	9.5 9.5, 4.5, 14.5,
		6.5 90			5	16.5, 9.75, 2.5
		90 160			6.5	11, 5.75, 8
		170 50			7.5	10.25, 17, 8.5,
		80			75 65	10.5, 12, 13.5
		80			45	12.75, 9, 3.25,
		80				25, 7.5, 18.5,
		7.5 70				3, 26.5, 5.5
		8 4.5				5.25, 3.25, 5,
		4 6.5 140				13, 9.25, 23.5
		5 65			55 50	13.25, 5, 17.5
		6			6.5	22, 13, 4.75
				6.5		18, 10.75, 20,
		5 7				20, 4.5, 20.5
		7 4.5				
		6.5 55			5	
		4.5 65			5	
		7 85			6	
		7.5				
		55				
		100 5				
		140 105				
		4			4 6.5	
		120			5	
		75 85			40	
		5.5			6.5	
		65 110			4	
		85 60				
		85 55 85 75				
		65 60			110	
		100 80				

Plant Ecology Laboratory
Data Form 68

Station No. 5101 hwd 11

Tree	No.		Size Cl. sq. in.			Dom.	No. Sap.	F%	F%	D%	Dom%	DFD Index		
	Pts.	Tr.	80	81-	321+									
Abies balsamea	16	34	32	2		1419			43.2	34	25.4	102.6	412	461.7
Acer rubrum														
Acer spicatum														
Betula lutea														
B. papyrifera	2	2	1	1		184			5.4	2	3.3	10.7	66	53.5
Carya cord.														
C. ovata														
Fraxinus nigra														
Juglans cinerea														
Larix laricina														
Picea glauca														
P. mariana														
Pinus resinosa														
P. strobus														
Pop. balsamifera														
P. grand.														
P. trem.														
Prunus serotina														
Pyrus americana														
Quercus bicolor														
Q. rubra														
Thuja occ.	19	64	46	18		3985			51.3	64	71.3	186.6	748	746.4
Tilia americana														
Tsuga can.														
Ulmus americana														
U. rubra														

37

5588

444

100 100

2444

1261.16

Total tran.

Av. Tr. Dis. ||

Av. BA

No. Tr./Acre

1224

TABULATION FORM

CONIFER SWAMP

Stand No. 5101

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>																							
<i>Anemone canadensis</i>																							
<i>Anemone riparia</i>																							
<i>Anemone virginiana</i>																							
<i>Angelica atropurpurea</i>																							
<i>Aralia hispida</i>																							
<i>Aralia nudicaulis</i>		✓					✓	✓					✓									3	
<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>										✓												1	
<i>Aster novae-angliae</i>		✓																					
<i>Aster umbellatus</i>																							
<i>Athyrium filix-femina</i>									✓													1	
<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>		✓											✓									1	
<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>																							
<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>																							

C. arictata ✓

TABULATION FORM

CONIFER SWAMP

Stand No. 5101

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	✓																					
Carex flava																						
Carex granularis var. ha																						
Carex hystericina																						
Carex interior																						
Carex intumescens	✓	✓				✓					✓	✓									✓	5
Carex lacustris																						
Carex lasiocarpa																						
Carex leptalea	✓							✓	✓											✓		3
Carex leptonervia																						
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	✓	✓			✓					✓	✓			✓	✓	✓	✓	✓	✓	✓		11
Carex tuckermani																						
Chamaedaphne calyculata																						
Chelone glabra																						
Cicuta bulbifera																						
Cicuta muculata																						
Cinna latifolia	✓																					
Circaea alpine	✓			✓	✓	✓		✓	✓	✓	✓	✓		✓	✓				✓			11
Cirsium muticum																						
Clintonia borealis	✓	✓	✓		✓		✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		13
Coptis groenlandica	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	16
Corallorrhiza trifida																						
Cornus alternifolia																						
Cornus canadensis	✓					✓	✓	✓	✓	✓	✓		✓	✓	✓					✓	✓	11
Cornus obliqua																						
Cornus racemosa																						
Cornus stolonifera	✓					✓																1
Cypripedium acaule	✓																					
Cypripedium arietnum																						
Cypripedium calceolus																						
Cypripedium c var. pub																						
Cypripedium reginae																						
Cystopteris fragilis																						
Diervilla lonicera																						
Drosera intermedia																						
Drosera linearis																						
Drosera rotundifolia																						

TABULATION FORM

CONIFER SWAMP

Stand No. 5101

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5101

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5101

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5101

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
<i>Rubus pubescens</i>	✓	✓		✓	✓	✓	✓	✓			✓		✓	✓						✓		10
<i>Rumex crispus</i>																						
<i>Rumex verticillatus</i>																						
<i>Sagittaria latifolia</i>																						
<i>Salix candida</i>																						
<i>Salix pedicellaris</i>																						
<i>Salix sp.</i>																						
<i>Sambucus canadensis</i>																						
<i>Sarracenia purpurea</i>																						
<i>Saxifraga pennsylvanica</i>																						
<i>Scheuchzeria palustris</i> v																						
<i>Scirpus acutus</i>																						
<i>Scirpus cyperinus</i>																						
<i>Scirpus hudsonianus</i>																						
<i>Scirpus pedicellatus</i>																						
<i>Scirpus rubrotinctus</i>																						
<i>Scirpus validus</i>																						
<i>Scutellaria epilobifolia</i>																						
<i>Scutellaria lateriflora</i>																						
<i>Selaginella selaginoides</i>																						
<i>Senecio aureus</i>																						
<i>Sium suave</i>																						
<i>Smilacina stellata</i>																						
<i>Smilacina trifolia</i>																						
<i>Smilax herbacea</i>																						
<i>Smilax lasioneura</i>																						
<i>Solanum dulcamara</i>																						
<i>Solidago canadensis</i>																						
<i>Solidago gigantea</i>																						
<i>Solidago graminifolia</i>																						
<i>Solidago patula</i>																						
<i>Solidago purshii</i>																						
<i>Sphenopholis intermedia</i>																						
<i>Spiraea alba</i>																						
<i>Spiraea tomentosa</i>																						
<i>Stachys palustris</i> var. h																						
<i>Stachys tenuifolia</i>																						
<i>Stellaria longifolia</i>																						
<i>Streptopus roseus</i>	✓						✓								✓		✓					3
<i>Symplocarpus foetidus</i>																						
<i>Taxus canadensis</i>																						
<i>Thalictrum dasycarpum</i>																						
<i>Trientalis borealis</i>	✓	✓		✓	✓	✓				✓			✓						✓	✓		8
<i>Triglochin maritima</i>																						
<i>Trillium flexipes</i>																						
<i>Typha latifolia</i>																						
<i>Urtica dioica</i>																						
<i>Vaccinium angustifolium</i>	✓														✓		✓					2
<i>Vaccinium macrocarpon</i>																						
<i>Vaccinium myrtilloides</i>																				✓		1
<i>Vaccinium oxycoccos</i>																						

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Viburnum acerifolium																							
Viburnum lentago																							
Viburnum trilobum																							
Viola canadensis																							
Viola cucullata																							
Viola pallens		✓		✓	✓		✓	✓	✓			✓	✓	✓				✓	✓		✓		
Viola renifolia																							
Vitis riparia																							
Xanthoxylum americanum																							
sphagnum		✓																		✓		2	

PRESENCE LIST

CONIFER BOG

Stand No. 101

✓ *Abies balsamea* 1,2,3,5,6,7,9,12,13,
Acer rubrum 14,15,16,17,18
 ✓ *Acer spicatum* 8,14,15,16,17,18
Betula lutea 19,20
Betula papyrifera 9, 20
Carya cordiformis
Fraxinus nigra

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

Prunus serotina
Quercus bicolor
Quercus rubra
 ✓ *Sorbus americana* 14,
 ✓ *Thuja occidentalis*
Tsuga canadensis
Ulmus americana

HERBS AND SHRUBS

Alnus incana
Alnus rugosa 13,
Andromeda glaucophylla
Anemone canadensis
Aralia hispida
 ✓ *Aralia nudicaulis* 6,7,12,
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* 12,
Bromus ciliatus
Calamagrostis canadensis
Calla palustris
Calopogon pulchellus
Caltha palustris
Campanula aparinoides
Chamaedaphne calyculata
 ✓ *Chiogenes hispidula* 11,13,16,
Cicuta bulbifera
Cicuta maculata 14,19
Circaea alpina 3,4,5,7,8,9,10,11,13,
Cirsium muticum 14,15,16,17,18,
 ✓ *Clintonia borealis* 1,2,4,6,9,10,12,13,
 ✓ *Coptis trifolia* 2,3,4,6,7,8,9,10,11,
Corallorrhiza trifida 14,15,16,17,18,19,
 ✓ *Cornus canadensis* 5,6,7,8,9,10,12,13,
Cornus obliqua
Cornus stolonifera 5,14,19,20
 ✓ *Cypripedium acaule*
Cypripedium arietinum
Cypripedium parviflorum
Cypripedium pubescens
Cypripedium reginae
Decodon verticillatus
Diervilla lonicera
Drosera intermedia
Drosera longifolia
Drosera rotundifolia
 ✓ *Dryopteris linneana* 6,7,

Dryopteris phegopteris
Dryopteris spinulosa 8,9,10,11,12,13,14,
Dryopteris thelypteris 16,
Dulichium arundinaceum
Epigaea repens
Epilobium adenocaulon
Epilobium angustifolium
Epilobium densum
Equisetum scirpoides
Eriophorum angustifolium
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 11,18,20
Habenaria psycodes
Halenia deflexa
Helenium autumnale
Hypericum virginicum
Ilex verticillata
Impatiens biflora
Iris versicolor
Iris virginica
Juncus tenuis
Kalmia polifolia
 ✓ *Ledum groenlandicum* 19,
Leersia oryzoides
 ✓ *Linnaea borealis* 1,5,7,10,12,14,15,
Liparis loeselii 18,20
Listera cordata
Lobelia kalmii
Lobelia siphilitica

Lonicera caerulea
Lonicera oblongifolia
Lycopus uniflorus
Lysimachia terrestris
 ✓ *Maianthemum canadense* 1,2,3,6,8,9,10,
Malaxis unifolia 12,13,14,15,16,
Menyanthes trifoliata 17,18,19,20
Mimulus ringens
Mitchella repens
 ✓ *Mitella nuda* 1,4,5,6,7,8,9,10,11,13,
 ✓ *Moneses uniflora* 15,
Muhlenbergia mexicana
Muhlenbergia racemosa
Myrica gale
 ✓ *Nemopanthus mucronata* 3,4,8,13,14,
Onoclea sensibilis
 ✓ *Osmunda cinnamomea*
Osmunda regalis
Parnassia caroliniana
Parthenocissus vitacea
Pedicularis lanceolata
Phalaris arundinacea
Physocarpus opulifolius
Poa palustris
Pogonia ophioglossoides
 ✓ *Polygala pauciflora* 1,2,4,6,9,10,14,16,
Potentilla palustris 17,20
Prenanthes alba 6
Pyrola asarifolia
Pyrola elliptica
Pyrola rotundifolia
 ✓ *Pyrola secunda* 2,13,
Ranunculus abortivus
Rhamnus alnifolia
Rhus radicans
Rhus vernix
Ribes americanum
Ribes cynosbati
Ribes hirtellum
Ribes lacustre
Ribes triste
Rorippa palustris
Rosa caroliniana
Rubus idaeus 12,
 ✓ *Rubus triflorus* 1,3,4,5,6,7,10,12,13,
Rhynchospora alba 19,
Salix candida
Sarracenia purpurea

Saxifraga pennsylvanica
 Scirpus cyperinus
 Scirpus acutus
 Scirpus hudsonianus
 Scirpus rubrotinctus
 Scirpus validus
 Scutellaria epilobifolia
 Scutellaria lateriflora
 Selaginella selaginoides
 Sium suave

Smilacina trifolia
 Smilax herbacea
 Solidago serotina
 Spiraea alba
 Spiraea tomentosa
 Steironema lanceolatum
 Symplocarpus foetidus
 Thalictrum dasycarpum
 ✓ Trientalis borealis 1,3,4,5,9,12,18,20
 Triglochin maritima

Typha latifolia
 ✓ Vaccinium angustifolium 14,16,
 Vaccinium macrocarpon
 Vaccinium oxycoccus
 Vaccinium pennsylvanicum
 Viburnum opulus
 Viola canadensis
 ✓ Viola pallens 3,4,6,7,8,11,12,13,
 Vitis riparia 17,18,20

Additional species:

- ✓ Galium trifl 2,3,4,5,7,9,11,12,18,20
- ✓ sph 19,
- ✓ Lye annot 2,7,8,9,12,16,20
- ✓ Carex triep 1,4,9,10,13,14,15,16,17,18,19,
- ✓ Carex ~~intumescens~~ ^{can} 1,5,10,11,20
- ✓ C. disp
- ✓ Hystrix 6,14,16,
- ✓ Monstera unifl
- ✓ Rhyssalis 18,
- ✓ Equis fenui,
- ✓ Luzula 2,
- ✓ Carex ~~leptalea~~ ^{leptalea} 2,8,19,
- ✓ Athyrium 8,
- ✓ Lonicera 8,
- ✓ Aster macro,
- ✓ Vacc myr 19,
- ✓ Cinna lat
- ✓ Helenium diflexa
- ✓ C. projecta
- ✓ C. arctata