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Plant Ecology Laboratory
Data Form 68

Station No.

5176 ^{Wdwd 71}

Tree	No.		Size Cl.sq.in.			No.	F%	F%	D%	Dom%	DFD		
	Pts.	Tr.	12-80	31-320	321+								
Abies balsamea	8	14	11	3		850		15.1	14	15.1	44.2	176	198.90
Acer rubrum	4	4	2	1		150		7.5	4	2.7	14.2	112	85.20
Acer spicatum													
Betula lutea	2	2	2			88		3.8	2	1.6	7.4	49	55.50
B. papyrifera	2	2	2			48		3.8	2	0.8	6.6	42	33.0
Carya cord.													
C. ovata													
Fraxinus nigra	7	8	7	1		532		13.2	8	9.5	30.7	217	153.5
Juglans cinerea													
Larix laricina													
Picea glauca													
P. mariana													
Pinus resinosa													
P. strobus	1	2	2			108		1.9	2	1.9	5.8	12	23.2
Pop. balsamifera	1	1		1		180		1.9	1	3.2	6.1	24	27.45
P. grand.													
P. trem.													
Prunus serotina													
Pyrus americana													
Quercus bicolor													
Q. rubra													
Thuja occ.	20	57	48	9		2914		37.7	57	51.9	146.6	588	586.4
Tilia americana													
Tsuga can.	7	9	8	1		564		13.2	9	10.0	32.2	160	273.70
Ulmus americana	1	1		1		180		1.9	1	3.2	6.1	48	33.55
U. rubra	1	1				180		1.9	1	3.2	6.1	48	

Total tran.

Av. Tr. Dis.

Av. BA

No. Tr./Acre

53

5614

100

100

49.9

2444

1404

(1470.40)

Bed pap

6	1	28
5	1	20
	2	48

Traxing

5	1	20
7	1	38
4	"	24
		80
		235
		65
		70

Pmstr	8	532
7	1	38
		70
	2	108

Alvies

8	"	100
5	"	40
4	"	24
7	1	38
6	1	28
		60
		110
		185
		75
		80
		110

Janga 14

71	1	38
611	2	56
		55
		150
		80
		60
		50
		75

8 504

Shiya

4	111111
5	111
1	
6	111
"	
7	111111
"	
8	1111

2	8
2	2
14	9
57	2
1	1
5	1
100	

Box lot

6	1	1.28	57	2914
		1.60		

Pap bal	2	88
		180

acervul

4	1	12
6	1	28
5	1	90

Ulmamer 180

Research in Progress - Taxonomy

50
90
110
130
80
75
165
60
95
120
70
60
85
65
55
70
55
50
150
60
85

TABULATION FORM

CONIFER SWAMP

Stand No. 5116

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
<i>Amelanchier laevis</i>	✓																					1
<i>C. bromoides</i>	✓		✓						✓		✓											3
<i>Achillea millefolium</i>																						
<i>Actaea</i> sp.	✓			✓																		1
<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>	✓			✓			✓			✓				✓								4
<i>Arethusa bulbosa</i>																						
<i>Arisaema atrorubens</i>	✓									✓	✓											2
<i>Asclepias incarnata</i>																						
<i>Asclepias syriaca</i>																						
<i>Asparagus officinalis</i>																						
<i>Aster junciformis</i>																						
<i>Aster lateriflorus</i>	✓										✓	✓	✓	✓		✓						5
<i>Aster macrophyllus</i>	✓	✓			✓		✓				✓	✓	✓									6
<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>	✓	✓	✓																			2
<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>																						

Arctostaphylos ✓
Cypripedium ✓
Aporosa sp. ✓
Asarum canadense ✓

5

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5116

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

Hammamelis v. ✓*Eupator rug.* ✓

TABULATION FORM

CONIFER SWAMP

Stand No. 5116.

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
<i>Laportea</i> var.	✓																					
<i>Hystrix patula</i>																						
<i>Ilex verticillata</i>																						
<i>Impatiens capensis</i>																						
<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>	✓			✓	✓		✓	✓	✓													5
<i>Liparis loeselii</i>																						
<i>Listera cordata</i>																						
<i>Lobelia siphilitica</i>	✓																					
<i>Lonicera canadensis</i>	✓			✓																		1
<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>	✓																					
<i>Lysimachia ciliata</i>																						
<i>Lysimachia hybrida</i>																						
<i>Lysimachia quadriflora</i>																						
<i>Lysimachia terrestris</i>																						
<i>Lysimachia thyrsiflora</i>																						
<i>Maianthemum canadense</i>	✓	✓			✓	✓		✓	✓	✓						✓						7
<i>Malaxis unifolia</i>																						
<i>Melampyrum lineare</i>																						
<i>Mentha trifoliata</i>																						
<i>Mimulus ringens</i>																						
<i>Mitchella repens</i>																						
<i>Mitella diphylla</i>	✓	✓									✓	✓	✓			✓						5
<i>Mitella nuda</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓						14
<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>Nemopanthus mucronata</i>																						
<i>Onoclea sensibilis</i>	✓																					
<i>Osmunda cinnamomea</i>	✓								✓													1

TABULATION FORM

CONIFER SWAMP

Stand No. 5116

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5116

[illegible]

[illegible]

and to S

8-20-54

Stand No. ~~5016~~

5116

PRESENCE LIST

CONIFER BOG

- ✓ *Abies balsamea* 1,2,3,6,7,8,11,14,
Acer rubrum
 ✓ *Acer spicatum* 1,2,3,4,5,6,7,8,9,10,11,12,
 ✓ *Betula lutea* 15,
 ✓ *Betula papyrifera*
Carya cordiformis
 ✓ *Fraxinus nigra* 4,11,12,
 ✓ *Fagus sylvatica*

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

HERBS AND SHRUBS

- Alnus incana*
Alnus rugosa
Andromeda glaucophylla
 1. *Anemone canadensis*
 ✓ *Aralia hispida*
 ✓ *Aralia nudicaulis* 3,6,7,9,12,
Arceuthobium pusillum
 ✓ *Arctostaphylos uva-ursi*
Arethusa bulbosa
 ✓ *Arisaema atrorubens* 4,9,10,
Asclepias incarnata
 ✓ *Aster lateriflorus* 10,11,12,13,15,
 ✓ *Aster novae-angliae* 5,
Aster umbellatus
Betula pumila
Betula sandbergii
 ✓ *Bidens coronata*
Boehmeria cylindrica
 ✓ *Botrychium virginianum* 1,2,
Bromus ciliatus
Calamagrostis canadensis
Calla palustris
Calopogon pulchellus
 ✓ *Caltha palustris*
Campanula aparinoides
Chamaedaphne calyculata
Chiogenes hispidula
Cicuta bulbifera
Cicuta maculata
 ✓ *Circaea alpina* 2,3,5,7,8,10,11,12,15,
Cirsium muticum
 ✓ *Clintonia borealis* 1,3,4,7,9,
 ✓ *Coptis trifolia* 1,6,7,8,9,11,12,14,
Corallorrhiza trifida
 ✓ *Cornus canadensis* 1,4,9,
Cornus obliqua
 ✓ *Cornus stolonifera*
Cypripedium acaule
Cypripedium arietinum
Cypripedium parviflorum
Cypripedium pubescens
Cypripedium reginae
Decodon verticillatus
Diervilla lonicera
Drosera intermedia
Drosera longifolia
 ✓ *Drosera rotundifolia*
 ✓ *Dryopteris* ~~linearis~~ 1,2,5,9,10,15,
 ✓ *Dryopteris* ~~linearis~~

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

- Prunus serotina*
Quercus bicolor
 ✓ *Quercus rubra* seed
Sorbus americana
 ✓ *Thuja occidentalis*
 ✓ *Tsuga canadensis* 6,8,9,10,
 ✓ *Ulmus americana* mb
 ✓ *Julia*
 ✓ *Lonicera caerulea* can 3,
 ✓ *Lonicera oblongifolia*
 ✓ *Lycopus uniflorus*
Lysimachia terrestris
 ✓ *Maianthemum canadense* 1,4,5,7,8,9,15,
Malaxis unifolia
Menyanthes trifoliata
Mimulus ringens
Mitchella repens
 ✓ *Mitella nuda* 1,2,3,4,5,6,7,8,9,10,11,12,13,
Moneses uniflora 15,
Muhlenbergia mexicana
Muhlenbergia racemosa
Myrica gale
Nemopanthus mucronata
 ✓ *Onoclea sensibilis*
 ✓ *Osmunda cinnamomea* 8,
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* 1,4,9,11,15,
Ranunculus abortivus
 ✓ *Rhamnus alnifolia*
Rhus radicans
Rhus vernix
Ribes americanum
Ribes cynosbati
Ribes hirtellum
Ribes lacustre
Ribes triste
Rorippa palustris
Rosa caroliniana
Rubus idaeus
 ✓ *Rubus triflorus* 1,3,4,10,
Rynchospora alba
Salix candida
Sarracenia purpurea

- ✓ *Scut lat*
- ✓ *Viola pallens* 12, 3, 4, 5, 6, 7, 8, 11, 12,
- ✓ *Carex* ~~purple~~ 1, 2, 3, 6, 8, 9, 11, 12, 14, 15,
- ✓ *Apios*
- ✓ *Indian ginger*
- ✓ *Cinn* ^{lat} 5, 15,
- ✓ *Carex* ~~brown~~ ^{interior} 2, 8, 10,
- ✓ *Trillium grand* 11, no fruit
- ✓ *Adiantum ped*
- ✓ *Athyrium margin*
- ✓ *nettle* ^{area} all leaves
- ✓ *columbine vine*
- ✓ *Thalictrum* - non red, non gland. 15,
- ✓ *Parnella unq* 4, 13, 15,
- ✓ *Carex* ~~dark~~ ^{deep} 4,
- ✓ *Elymus can*
- ✓ *Actaea ulera* 3,
- ✓ *Dryop cris* 4, 5, 6,
- ✓ *Aster mac* 1, 4, 6, 10, 11, 12,
- ✓ *Mitella diphylla* 1, 10, 11, 12, 15
- ~~✓ 1, 10, 11, 12, 15,~~
- ✓ *Taxus*
- ✓ *Inventalis* 1, 3, 5, 6, 9,
- ✓ *Oxalis mon* 1, 2, 4, 5, 7, 8, 11,
- ✓ *Geranium* 4, 9,
- ✓ *Walsteinia*
- ✓ *Amelanchier*
- ✓ *Pyrola* ^{interior} *ululifera*
- ✓ *Pyrola* 2, 11, 12, 13, 15,

- ✓ *Ribes* (^{decid} ~~very~~ mostly) 6, 12,
- ✓ *Sphagnum* 3, 4,
- ✓ *Carex triep*
- ✓ ~~*Habenaria*~~
^{as near but not} *Habenaria deflexa*
- ✓ *Orchid Habenaria orbiculata*
2 flat leaf on ground
silver beneath
pale green
blunt-ovate
spurred ca 2 mm long
ovate, entire leaf
green flr 11 of them ca 1.5 cm long
 brown spot
bracts at each flr.
- ✓ *Hamamelis virginiana*
- ✓ *Eupatorium rugosum*
- ✓ *Pyrus melanocarpa*
- ~~✓ *Habenaria*~~
- ✓ *Carex ulera*