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Plant Ecology Laboratory
Data Form 68

Station No. 51

Data Form 60					Station No.									
Tree	No.	No.	Size Cl. sq. in.			No.	F%	F%	D%	Dom%	DFD			
	Pts.	Tr.	12-80	81-320	321+	Dom.	Sap.	Seed	Seed	Tr.	Tr.		Tr.	Index
Abies balsamea	1	1	1			12				2.4	1	0.7	4.1	16
Acer rubrum														
Acer spicatum														
Betula lutea														
B. papyrifera														
Carya cord.														
C. ovata														
Fraxinus nigra														
Juglans cinerea														
Larix laricina	20	61	61			824				48.8	61	49.0	158.8	158.8
Picea glauca														
P. mariana	19	37	37			820				46.3	37	48.8	132.1	291
Pinus resinosa														
P. strobus	1	1				24				24	1	1.4	4.8	10
Pop. balsamifera														
P. grand.														
P. trem.														
Prunus serotina														
Pyrus americana														
Quercus bicolor														
Q. rubra														
Thuja occ.														
Tilia americana														
Tsuga can.														
Ulmus americana														
U. rubra														

Total tran.

Av. Tr. Dis.

Av. BA

No. Tr./Acre

40 100

1680

99.9

100

999

2998

317

442.2

CONIFER SWAMP

Ecology Form # 71

Stand # 51

Field Data Sheet - Trees

Redox.

Conduc.

Cat.Cap.

Location 41N 8E16

pH

02

36" Bore sph

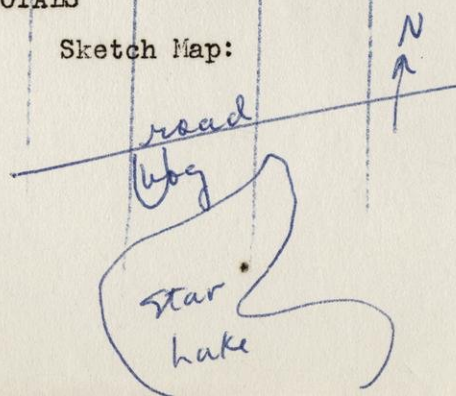
% Cover 50

Basal Area

Larix	Picea	Thuja	Pop.tr.	Betula pap.	Pinus str	Alnus	Distances		
4 4	6						14.5	4.5	3.25
4	4						3.25	12.25	14.25
4 4 4							3.5	12.75	13.75
4 4							11.5	2.0	8.25
4.5 4	6 5.5						28.5	6.5	21.5
4 4	4 6.5						1.5	15.0	26.5
4 4	5						17.5	10.25	5.5
4 4							14.5	13.5	14.5
4.5 4.5	6.5				5.5		11.5	1.5	12.0
4.5	6.5						3.75	10.0	12.0
5.5 4	6						9.0	13.25	34.5
5	4						8.0	10.25	9.5
4.5	6.5						17.25	9.5	8.25
4 4.5	5						7.5	21.0	26.5
4 4	4						12.75	1.0	24.0
4 4	4						18.75	11.5	38.0
4 4	4						23.0	6.0	45.0
4 4	4						18.5	5.5	43.0
4 4	4						16.5	-5.0	11.5
4 4	4 4.5						23.7	10.0	22.0

TOTALS

Sketch Map:



$$4 \cdot 47 - 12 = 564$$

4.5 - 7 - 16 - 112

5. 5.20 100

5.5.2.24 48

61 82 4

Picea

4 ~~III~~ IIII $9 \cdot 12 = 108$

4.5 III 3.16 48

5 ~~1111~~ 11 7.20 14.0

5.5 ~~III~~ 5.24 144

6 ~~III~~ 11 7.28 196

6.5 ~~III~~ 5.34 170

7-1 138 38

2.5

~~33~~ 37 ~~81~~ 820

Handwritten numbers 4 through 9, each followed by a series of vertical lines (tally marks) and a horizontal line. The numbers are arranged in a column, with the horizontal lines extending to the right. The numbers are: 4, 5, 6, 7, 8, 9. The tally marks are: 4 (four vertical lines), 5 (five vertical lines), 6 (six vertical lines), 7 (seven vertical lines), 8 (eight vertical lines), 9 (nine vertical lines). The horizontal lines are drawn across the bottom of the tally marks.

Amus str
1.24

Alice
1.12

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>	✓		✓		✓																	2	
<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 canadensis</i>	✓				✓			✓								✓	✓				✓	5	
<i>Calla palustris</i>	✓					✓		✓	✓			✓							✓		✓	6	
<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>	✓															✓	✓					2	
<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>																							

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																			✓			1
Carex flava																						
Carex granularis var. ha																						
Carex hystericina																						
Carex interior																						
Carex intumescens																						
Carex lacustris																						
Carex lasiocarpa																						
Carex leptalea																						
Carex leptoneuria																						
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																		✓	✓			2
Carex tenuiflora																						
Carex trisperma		✓	✓	✓	✓	✓	✓	✓			✓		✓	✓	✓	✓		✓	✓	✓		14
Carex tuckermani																						
Chamaedaphne calyculata		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓								11
Chelone glabra																						
Cicuta bulbifera																						
Cicuta muculata																						
Cinna latifolia																						
Circaea alpina																						
Cirsium muticum																						
Clintonia borealis		✓																				
Coptis groenlandica		✓					✓											✓				2
Coralorrhiza trifida																						
Cornus alternifolia		✓																				
Cornus canadensis						✓									✓			✓				3
Cornus obliqua																						
Cornus racemosa																						
Cornus stolonifera																						
Cypripedium acaule		✓																				
Cypripedium arietinum																						
Cypripedium calceolus																						
Cypripedium c var. pub																						
Cypripedium reginae																						
Cystopteris fragilis																						
Diervilla lonicera																						
Drosera intermedia																						
Drosera linearis																						
Drosera rotundifolia																						

TABULATION FORM

CONIFER SWAMP

Stand No. 5051

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5051

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
<i>Juncus sp.</i>	✓																						
<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>	✓		✓								✓	✓		✓								4	
<i>Lactuca biennis</i>																							
<i>Lathyrus palustris</i>																							
<i>Ledum groenlandicum</i>	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	16	
<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>																							
<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 thyrsoflora</i>																							
<i>Maianthemum canadense</i>	✓					✓	✓	✓														3	
<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>																							
<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>	✓			✓																		1	
<i>Onoclea sensibilis</i>																							
<i>Osmunda cinnamomea</i>	✓			✓		✓	✓	✓					✓		✓			✓				6	

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5051

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>																							
<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>		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11
<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>																							
<i>Symplocarpus foetidus</i>																							
<i>Taxus canadensis</i>																							
<i>Thalictrum dasycarpum</i>																							
<i>Trientalis borealis</i>		✓					✓	✓							✓			✓		✓			5
<i>Triglochin maritima</i>																							
<i>Trillium flexipes</i>																							
<i>Typha latifolia</i>		✓													✓								1
<i>Urtica dioica</i>																							
<i>Vaccinium angustifolium</i>		✓	✓	✓	✓	✓	✓	✓					✓					✓					6
<i>Vaccinium macrocarpon</i>																							
<i>Vaccinium myrtilloides</i>		✓				✓							✓					✓		✓			3
<i>Vaccinium oxycoccos</i>				✓															✓	✓	✓	✓	3

[illegible]

PRESENCE LIST

CONIFER BOG

Stand No. 5051

✓ *Abies balsamea*
✓ *Acer rubrum* 4, 12,
✓ *Acer spicatum*
✓ *Betula lutea*
✓ *Betula papyrifera*
✓ *Carya cordiformis*
✓ *Fraxinus nigra*

✓ *Juglans cinerea*
✓ *Larix laricina* 12, 16,
✓ *Picea glauca*
✓ *Picea mariana* 4, 12, 16, 20
✓ *Pinus resinosa*
✓ *Pinus strobus*
✓ *Populus tremuloides*

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

fair spruce
refro
very little
larix
lots of *Osmunda*
cinn

HERBS AND SHRUBS

✓ *Alnus incana*
✓ *Alnus rugosa*
1.4 10 ✓ *Andromeda glaucophylla* 2, 5,
✓ *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*
4.1 30 ✓ *Calla palustris* 5, 6, 7, 11, 18, 20
✓ *Calopogon pulchellus*
✓ *Caltha palustris*
2.5 55 ✓ *Campanula aparinoides* 10, 11, 12, 13,
8.9 05 ✓ *Chamaedaphne calyculata* 1, 2, 3, 5, 7, 9, 11,
✓ *Chiogenes hispidula* 2, 3, 4, 5, 7, 8, 9, 12,
✓ *Cicuta bulbifera* 14, 16, 18, 19, 20
✓ *Cicuta maculata*
✓ *Circaea alpina*
✓ *Cirsium muticum*
1.4 10 ✓ *Clintonia borealis*
✓ *Coptis trifolia* 4, 17,
✓ *Corallorrhiza trifida*
2.0 15 ✓ *Cornus canadensis* 5, 14, 17,
✓ *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 linneana*

✓ *Dryopteris phegopteris*
✓ *Dryopteris spinulosa*
✓ *Dryopteris thelypteris*
✓ *Dulichium arundinaceum*
✓ *Epigaea repens*
✓ *Epilobium adenocaulon*
0.7 5 ✓ *Epilobium angustifolium*
✓ *Epilobium densum* 14,
✓ *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*
✓ *Habenaria psycodes*
✓ *Halenia deflexa*
✓ *Helenium autumnale*
✓ *Hypericum virginicum*
✓ *Ilex verticillata*
✓ *Impatiens biflora*
✓ *Iris versicolor* 20
✓ *Iris virginica*
✓ *Juncus tenuis*
2.7 20 ✓ *Kalmia polifolia* 2, 10, 11, 13,
10.9 80 ✓ *Ledum groenlandicum* 1, 2, 3, 4, 5, 7, 8, 9, 10,
✓ *Leersia oryzoides* 11, 12, 13, 16, 18, 19, 20
0.7 5 ✓ *Linnaea borealis* 14,
✓ *Liparis loeselii*
✓ *Listera cordata*
✓ *Lobelia kalmii*
✓ *Lobelia siphilitica*

✓ *Lonicera caerulea*
✓ *Lonicera oblongifolia*
✓ *Lycopus uniflorus*
✓ *Lysimachia terrestris*
2.0 15 ✓ *Maianthemum canadense* 5, 6, 7,
✓ *Malaxis unifolia*
✓ *Menyanthes trifoliata*
✓ *Mimulus ringens*
✓ *Mitchella repens*
✓ *Mitella nuda*
✓ *Moneses uniflora*
✓ *Muhlenbergia mexicana*
✓ *Muhlenbergia racemosa*
✓ *Myrica gale*
0.7 5 ✓ *Nemopanthus mucronata* 3,
✓ *Onoclea sensibilis*
4.1 30 ✓ *Osmunda cinnamomea* 4, 6, 7, 12, 14, 17,
✓ *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*
✓ *Rorippa palustris*
✓ *Rosa caroliniana*
✓ *Rubus idaeus*
✓ *Rubus triflorus*
✓ *Rhynchospora alba*
✓ *Salix candida*
✓ *Sarracenia purpurea*

Saxifraga pennsylvanica	7.5 55	✓ Smilacina trifolia	2, 3, 4, 6, 8, 9, 10, 11, 13, 14, 17, 4.1 30	0.7 5	✓ Typha latifolia	14
Scirpus cyperinus		✓ Smilax herbacea			✓ Vaccinium angustifolium	18, 3, 5, 7, 12
Scirpus acutus		✓ Solidago serotina			✓ Vaccinium macrocarpon	3, 18, 20
Scirpus hudsonianus		✓ Spiraea alba		2.0 15	✓ Vaccinium oxycoccus	3, 18, 20
Scirpus rubrotinctus		✓ Spiraea tomentosa			✓ Vaccinium pennsylvanicum	
Scirpus validus		✓ Steironema lanceolatum			✓ Viburnum opulus	
Scutellaria epilobifolia		✓ Symplocarpus foetidus			✓ Viola canadensis	
Scutellaria lateriflora		✓ Thalictrum dasycarpum			✓ Viola pallens	
Selaginella selaginoides	3.4 25	✓ Trientalis borealis	6, 9, 14, 17, 19,		✓ Vitis riparia	
Sium suave		✓ Triglochin maritima				

Additional species:

- 2.0 15 ✓ *Vacc. myrt* 5, 12, 18,
- 9.5 70 ✓ *Carex triop* 1, 2, 3, 5, 6, 7, 11, 13, 14, 15, 16, 18, 19, 20
- 13.6 100 ✓ *Sph* 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
- 3.4 25 ✓ *Carex* 4, 7, 15, 16, 20
- 0.7 5 ✓ *Euph. spissum* 12,
- 2.7 20 ✓ *Carex lychnesce* 14, 15,
- (bluish) *Carex stricta* 17, 19,
- 2.7 20 *Carex* 17, 19,
- 0.7 5 *Carex disperma* 19,
- 100.0 ✓ *Epilobium glauc*
- 7 735 *Carex*

735 $\frac{.01}{10.00}$