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Plant Ecology Laboratory
Data Form 68

Station No. 5023

Tree	No.	No.	Size Cl. sq. in.			No.	F%	F%	D%	Dom%	DFD		
	Pts.	Tr.	80	320	321+							Dom.	Sap.
Abies balsamea													
Acer rubrum													
Acer spicatum													
Betula lutea													
B. papyrifera													
Carya cord.													
C. ovata													
Fraxinus nigra													
Juglans cinerea													
Larix laricina	6	8	8			144		19	23.1	8	9.1	40.2	80
Picea glauca													
P. mariana	20	92	92			1445		15.7	76.9	92	90.9	259.8	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													

40.2
350
519.6

Total tran.

Av. Tr. Dis. 11.4

Av. BA 15.9

No. Tr./Acre

300

559.8

Shade
1.39

- | Problem | Equation | Result |
|---------|------------|--------|
| 1 | $P_m 4, 5$ | 18 1 |
| 2 | $P_m 4, 5$ | 17 11 |
| 3 | $P_m 4, 5$ | 17 8 |
| 4 | $P_m 4, 5$ | 13 10 |
| 5 | $P_m 4, 5$ | 15 4 |
| 6 | $P_m 4, 5$ | 4 7 |
| 7 | $P_m 4, 5$ | 13 1 |
| 8 | $P_m 4, 5$ | 11 2 |
| 9 | $P_m 4, 5$ | 14 0 |
| 10 | $P_m 4, 5$ | 9 2 |
| 11 | $P_m 4, 5$ | 17 9 |
| 12 | $P_m 4, 5$ | 11 3 |
| 13 | $P_m 4, 5$ | 8 7 |
| 14 | $P_m 4, 5$ | 22 5 |
| 15 | $P_m 4, 5$ | 4 10 |
| 16 | $P_m 4, 5$ | 7 4 |
| 17 | $P_m 4, 5$ | 20 8 |
| 18 | $P_m 4, 5$ | 6 9 |
| 19 | $P_m 4, 5$ | 9 7 |
| 20 | $P_m 4, 5$ | 4 6 |
| 21 | $P_m 4, 5$ | 4 6 |
| 22 | $P_m 4, 5$ | 4 6 |
| 23 | $P_m 4, 5$ | 4 6 |
| 24 | $P_m 4, 5$ | 4 6 |
| 25 | $P_m 4, 5$ | 4 6 |
| 26 | $P_m 4, 5$ | 4 6 |
| 27 | $P_m 4, 5$ | 4 6 |
| 28 | $P_m 4, 5$ | 4 6 |
| 29 | $P_m 4, 5$ | 4 6 |
| 30 | $P_m 4, 5$ | 4 6 |
| 31 | $P_m 4, 5$ | 4 6 |
| 32 | $P_m 4, 5$ | 4 6 |
| 33 | $P_m 4, 5$ | 4 6 |
| 34 | $P_m 4, 5$ | 4 6 |
| 35 | $P_m 4, 5$ | 4 6 |
| 36 | $P_m 4, 5$ | 4 6 |
| 37 | $P_m 4, 5$ | 4 6 |
| 38 | $P_m 4, 5$ | 4 6 |
| 39 | $P_m 4, 5$ | 4 6 |
| 40 | $P_m 4, 5$ | 4 6 |
| 41 | $P_m 4, 5$ | 4 6 |
| 42 | $P_m 4, 5$ | 4 6 |
| 43 | $P_m 4, 5$ | 4 6 |
| 44 | $P_m 4, 5$ | 4 6 |
| 45 | $P_m 4, 5$ | 4 6 |
| 46 | $P_m 4, 5$ | 4 6 |
| 47 | $P_m 4, 5$ | 4 6 |
| 48 | $P_m 4, 5$ | 4 6 |
| 49 | $P_m 4, 5$ | 4 6 |
| 50 | $P_m 4, 5$ | 4 6 |

$$\begin{array}{r} 338 \\ 24 \overline{) 98} \end{array}$$

Pm

23

4 ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~
 4.5 ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~
 5 ~~||||~~ ~~||||~~
 5.5 ~~||||~~
 6 ~~||||~~
 6.5 ~~||||~~ ~~||||~~
 7 ~~||||~~
 7.5 ~~||||~~
 8

12.5 x 5.5 = 25.00
 15.5 x 1.7 = 25.6
 19.5 x 9 = 70.2
 21.5 x 3 = 21.2
 21.5 x 4 = 45.2
 3.2 x 2 = 26.4
 38.1 x 2 = 30.8
 97.526.4

63
 12
 126
 63
 256

L
 4 ~~||||~~
 5 ~~||||~~
 4.5 ~~||||~~
 5.5 ~~||||~~

PC
~~||||~~ 1

12.5 x 4 = 200
 19.5 x 3 = 312
 15.5 x 2 = 126
 21.5 x 2 = 198
 826

6.5
 58.5
 31.0
 43.0
 44.0

TABULATION FORM

CONIFER SWAMP

Stand No. 5023

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5023

[illegible]

TABULATION FORM

CONIFER SWAMP

Stand No. 5023

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 disiuncta																							
Dryopteris phegopteris																							
Dryopteris spinulosa																							
Dryopteris thelypteris																							
Dulichium arundinaceum																							
Echinocystis lobata																							
Eleocharis smallii																							
Epigaea repens																							
Epilobium angustifolium																							
Epilobium glandulosum va																							
Epilobium strictum																							
Equisetum fluviatile																							
Equisetum scirpoides																							
Erigeron philadelphicus																							
Eriophorum angustifolium																							
Eriophorum spissum	✓											✓										1	
Eriophorum tenellum																							
Eriophorum virginicum	✓		✓						✓													2	
Eriophorum viridi-carina																							
Eupatorium maculatum																							
Eupatorium perfoliatum																							
Galium aparine																							
Galium boreale																							
Galium concinnum																							
Galium labradoricum																							
Galium trifidum																							
Galium triflorum																							
Galeopsis tetrahit																							
Gaultheria hispidula	✓																						
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. 5023

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<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>																					
<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 thyrsiflora</i>																					
<i>Maianthemum canadense</i>																					
<i>Malaxis unifolia</i>																					
<i>Melampyrum lineare</i>																					
<i>Mentha 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>																					
<i>Onoclea sensibilis</i>																					
<i>Osmunda cinnamomea</i>																					

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>																							

TABULATION FORM

CONIFER SWAMP

Stand No. 5023

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>		✓					✓	✓		✓												3	
<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>																							
<i>Triglochin maritima</i>		✓					✓		✓		✓											3	
<i>Trillium flexipes</i>																							
<i>Typha latifolia</i>																							
<i>Urtica dioica</i>																							
<i>Vaccinium angustifolium</i>																			✓			1	
<i>Vaccinium macrocarpon</i>																							
<i>Vaccinium myrtilloides</i>																							
<i>Vaccinium oxycoccos</i>		✓		✓				✓		✓	✓				✓							5	

TABULATION FORM

CONIFER SWAMP

Stand No. 5023

[illegible]

PRESENCE LIST

CONIFER BOG

Stand No. 5023

Abies balsamea
Acer rubrum
Acer spicatum
Betula lutea
Betula papyrifera
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
Thuja occidentalis
Tsuga canadensis
Ulmus americana

HERBS AND SHRUBS

Alnus incana
Alnus rugosa
Andromeda glaucophylla
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
Chiogenes hispidula
Cicuta bulbifera
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
Dryopteris linneana

Dryopteris phegopteris
Dryopteris spinulosa
Dryopteris thelypteris
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
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
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
Rorippa palustris
Rosa caroliniana
Rubus idaeus
Rubus triflorus
Rhynchospora alba
Salix candida
Sarracenia purpurea

Data Form No. 22 (P.2)

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

Smilacina trifolia 6, 7, 9,
Smilax herbacea
Solidago serotina
Spiraea alba
Spiraea tomentosa
Steironema lanceolatum
Symplocarpus foetidus
Thalictrum dasycarpum
Trientalis borealis
Triglochin maritima 11, 9, 6,

Typha latifolia
Vaccinium angustifolium 18
Vaccinium macrocarpon
✓ Vaccinium oxycoccus 2, 8, 10, 11, 14,
Vaccinium pennsylvanicum
Viburnum opulus
Viola canadensis
Viola pallens
Vitis riparia

Additional species:

✓ Eriophorum spissum 11,
✓ Carex oligo 13, 20, 16, 17, 18, 4, 5, 8, 19, 310, 15
✓ Trispermum 7, 2