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Plant Ecology Laboratory
Data Form 68

Av BA

Station No. 5022

Tree	No. Pts.	No. Tr.	Size Cl. sq. in. 12-80	81-320	321+	Dom.	No. Sap.	Seed	F% Seed	F% Tr.	D% Tr.	Dom% Tr.	DFD Index		
Abies balsamea															
Acer rubrum															
Acer spicatum															
Betula lutea															
B. papyrifera															
Carya cord.															
C. ovata															
Fraxinus nigra															
Juglans cinerea															
Larix laricina	4	6	6			98			13	16.7	6	5.5	28.2	28	28.2
Picea glauca															300
P. mariana	20	94	94			1342			14.3	83.3	94	94.5	271.8	300	543.6
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												127.7			571.8
	24	100	100			1420				100	100	100	299.8	300	

Total tran. Av. Tr. Dis. 11.3' Av. BA 14.2 No. Tr./Acre

Shade 1.26

① Pm 6.5 15 2
4.5 13 3
5.0 7 0
6.5
4.0

② Pm 4.0 14.2
4.0 15.2
4.5 13.6
4
4

③ Pm 4.0 24 8
4.0 10 4
5.0 7 2
5.0

④ Pm 4.0
5.0 4 9
4.5 8 8
4.0 15 3
5.0

⑤ Pm 5.0 19 10
4.5 8 7
4.0 4 1
5.0
4.5

365 d 5.5 h

⑥ Pm 4 8 1
5 3 10
4.5 11 2
6
4

⑦ Pm 4 8 9
4.5 12 2
4.5 10 2
5
4

⑧ Pm 4 11 9
4.5 20 2
5 10 4
5
4

⑨ L 4 14 6
Pm 4 11 7
Pm 5 25 4
Pm 6
Pm 4

⑩ Pm 4 5 5
Pm 4 19 11
Pm 4 6 11
Pm 4
L 4.5
L 4

⑪ Pm 6.5 10 1
6 13 2
4.5 10 0
4

⑫ Pm 4.5 13 8
4 7 6
4 3 3
4

⑬ Pm 4 10 1
Pm 4 17 5
Pm 4
Pm 4 24 11
L 4

⑭ Pm 4.5 11 3
Pm 4 11 4
Pm 4 9 5
L 4
L 4

⑮ Pm 4 5022
4 16 2
4 11 11
4 4 5
4

⑯ Pm 4 4 8
6.5 9 5
5 10 7
4
4

⑰ Pm 4
4.5 3 7
4 4 0
5 9 2
4.5

⑱ Pm 4 7 5
4.5 10 2
4 10 5
4
4

⑲ Pm 4 19 7
4.5 7 4
4 10
6.5
4

⑳ Pm 5 16 2
4 19 4
4 7 3
5
4.5

many smaller
many

650
24
290
24
10

22

Pm

PHI SIGMA SOCIETY
Zeta Chapter
University of Washington

March 15, 1958

Dear

It is a pleasure to extend to you this invitation to membership in Phi Sigma Graduate Biological Society.

The Zeta Chapter of Phi Sigma is our philanthropy-four chapters of the national organization which comprises a total of more than 17,000 members whose works and interests are in biological sciences. Alumni membership on the faculty here numbers 72, and our active group during the last year consisted of 125 members.

The program of the current year, tentatively set for the early part of May, honor of the new initiates, tentatively will follow the banquet.

The initiation ceremony

12.5 × 5 = 62.5
15.5 | 15.5
78.0

1255 × 52 = 2600
155 × 18 = 1134
19.5 × 16 = 1248
128 × 3 = 113
133 × 5 = 132
94 5227

78 × 16 = 468 + 78 = 1248
63 × 18 = 504 + 63 = 1134

Data Form No. 72 | Plant Ecology Research | Univ. of Wisconsin

TABULATION FORM | CONIFER SWAMP | Stand No. 5022

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Achillea millefolium																							
Actaea sp.																							
Adiantum pedatum																							
Agrostis gigantea																							
Agrostis perennans																							
Agrostis scabra																							
Alnus rugosa																							
Amphicarpa bracteata																							
Anaphalis margaritacea																							
Andromeda glaucophylla	✓															✓							
Anemone canadensis																							
Anemone riparia																							
Anemone virginiana																							
Angelica atropurpurea																							
Aralia hispida																							
Aralia nudicaulis	✓																						
Arethusa bulbosa																							
Arisaema atrorubens																							
Asclepias incarnata																							
Asclepias syriaca																							
Asparagus officinalis																							
Aster junciformis																							
Aster lateriflorus																							
Aster macrophyllus																							
Aster novae-angliae																							
Aster umbellatus																							
Athyrium filix-femina																							
Barbarea vulgaris																							
Betula pumila																							
Bidens comosa																							
Bidens connata																							
Bidens coronata																							
Boehmeria cylindrica																							
Botrychium virginianum																							
Brachyelytrum erectum																							
Bromus ciliatus																							
Calamagrostis canadensi																							
Calla palustris																							
Calopogon pulchellus																							
Caltha palustris																							
Campanula aparinoides																							
Carex aquatilis																							
Carex arcta																							
Carex bebbii																							
Carex brunnescens																							
Carex cephalantha																							
Carex comosa																							
Carex crinita																							
Carex c. var. gynandra																							
Carex debilis																							
Carex deweyana																							

Data Form No. 72 | Plant Ecology Research | Univ. of Wisconsin

TABULATION FORM | CONIFER SWAMP | Stand No. 5022

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 hystricina																							
Carex interior																							
Carex intumescens																							
Carex lacustris																							
Carex lasiocarpa	✓																						
Carex leptalea																							
Carex leptonervia																							
Carex limosa																							
Carex oligosperma																							
Carex pauciflora	✓																						
Carex paupercula	✓											✓										1	
Carex pedunculata																							
Carex projecta																							
Carex pseudo-cyperus																							
Carex retrorsa																							
Carex scoparia																							
Carex sterilis																							
Carex stipata																							
Carex stricta																							
Carex tenuiflora																							
Carex trisperma	✓	✓	✓			✓	✓	✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	15	
Carex tuckermani																							
Chamaedaphne calyculata	✓				✓				✓	✓	✓	✓					✓			✓	✓	8	
Chelone glabra																							
Cicuta bulbifera																							
Cicuta muculata					✓																		
Cinna latifolia																							
Circaea alpine																							
Cirsium muticum																							
Clintonia borealis																							
Coptis groenlandica																							
Corallorrhiza trifida																							
Cornus alternifolia																							
Cornus canadensis																							
Cornus obliqua																							
Cornus racemosa																							
Cornus stolonifera																							
Cypripedium acaule																							
Cypripedium arietnum																							
Cypripedium calceolus																							
Cypripedium c var. pub																							
Cypripedium reginae																							
Cystopteris fragilis																							
Diervilla lonicera																							
Drosera intermedia																							
Drosera linearis																							
Drosera rotundifolia	✓																						

Data Form No. 72 | Plant Ecology Research | Univ. of Wisconsin

TABULATION FORM | CONIFER SWAMP | Stand No. 5022

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																							
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 philadelphicum																							
Eriophorum angustifolium																							
Eriophorum spissum	✓								✓													1	
Eriophorum tenellum																							
Eriophorum virginicum	✓																						
Eriophorum viridi-carina																							
Eupatorium maculatum																							
Eupatorium perfoliatum																							
Galium aparine																							
Galium boreale																							
Galium concinnum																							
Galium labradoricum																							
Galium trifidum																							
Galium triflorum																							
Galeopsis tetrahit																							
Gaultheria hispidula	✓				✓						✓	✓	✓									3	
Gaultheria procumbens	✓	✓			✓		✓		✓	✓		✓										6	
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																							

Data Form No. 72 Plant Ecology Research Univ. of Wisconsin

TABULATION FORM CONIFER SWAMP Stand No. 5022

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

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TABULATION FORM | CONIFER SWAMP | Stand No. 5022

Station No.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Osmunda regalis																							
Oxalis montana																							
Oxalis stricta																							
Panicum boreale																							
Panicum lanuginosum var.																							
Parietaria pensylvanicum																							
Parthenocissus inserta																							
Pedicularis lanceolatus																							
Penthorum sedoides																							
Phalaris arundinacea																							
Phleum pratense																							
Phrangmites communis																							
Physocarpus opulifolius																							
Pilea pumila																							
Poa palustris																							
Poa pratensis																							
Pogonia ophioglossoides																							
Polygala paucifolia																							
Polygonatum pubescens																							
Polygonum convolvulus																							
Polygonum amphibium var.																							
Polygonum sagittatum																							
Potentilla fruticosa																							
Potentilla palustris																							
Prenanthes alba																							
Prunella vulgaris																							
Prunus pensylvanicum																							
Prunus virginiana																							
Pteridium aquilinum																							
Pycnanthemum virginianum																							
Pyrola asarifolia																							
Pyrola elliptica																							
Pyrola rotundifolia																							
Pyrola secunda																							
Pyrus floribunda																							
Pyrus melanocarpa																							
Ranunculus abortivus																							
Ranunculus hispidus																							
Rhamnus alnifolia																							
Rhus radicans																							
Rhus vernix																							
Rhynchospora alba																							
Ribes americanum																							
Ribes cynosbati																							
Ribes hirtellum																							
Ribes lacustre																							
Ribes triste																							
Rosa carolina																							
Rubus allegheniensis																							
Rubus idaeus																							
Rubus occidentalis																							

Data Form No. 72 | Plant Ecology Research | Univ. of Wisconsin

TABULATION FORM | CONIFER SWAMP | Stand No. 5022

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

Data Form No. 72 | Plant Ecology Research | Univ. of Wisconsin

TABULATION FORM | CONIFER SWAMP | Stand No. 5022

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																							

NE

Date Form No. 22 | Plant Ecology Research | Univ. of Wisconsin

PRESENCE LIST — CONIFER BOG — Stand No. 5222

Vilas 42 N 6 E 23 S of Rd H

Abies balsamea
Acer rubrum
Acer spicatum
Betula lutea
Betula papyrifera
Carya cordiformis
Fraxinus nigra
Juglans cinerea
Larix laricina
Picea glauca
Picea mariana 1,3,4,
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 15,
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 4,8,9,10,11,16,19,20
Chiogenes hispidula 10,11,12,
Cicuta bulbifera
Cicuta maculata
Circaea alpina
Cirsium muticum
Clintonia borealis
Coptis trifolia
Corallorrhiza trifida
Cornus canadensis
Cornus obliqua
Cornus stolonifera
Cypripedium acaule 1,
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 1,4,6,8,9,11,
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 1,2,3,4,5,6,7,8,9,10,11,15,16,17,18,19,20
Ledum groenlandicum 1,2,3,4,5,6,8,9,10,11,12,13,14,15,16,17,18,19,
Leersia oryzoides
Linnaea borealis
Liparis loeselii
Listera cordata
Lobelia kalmii
Lobelia siphilitica
Lonicera caerulea
Lonicera oblongifola
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
Rynchospora alba
Salix candida
Sarracenia purpurea

Fe ++
Fe +++
Ca
neg

prob center
no dp

5022

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 1,2,3,4,5,6,7,8,10,
Smilax herbacea 11,12,13,14,15,16,17,18,
Solidago serotina 19, 20
Spiraea alba
Spiraea tomentosa
Steironema lanceolatum
Symplocarpus foetidus
Thalictrum dasycarpum
Trientalis borealis
Triglochin maritima

Typha latifolia
Vaccinium angustifolium 20,14,10,
Vaccinium macrocarpon 11,12,18,9,4
Vaccinium oxycoccus 2,3,11,
Vaccinium pennsylvanicum
Viburnum opulus
Viola canadensis
Viola pallens
Vitis riparia

Additional species:

Hall mys 1,2,3,5,6,7,8,13,
~~Ind pipe~~ Monotropa uniflora
C pauperculus 11,
C pauciflora
Euoph americanum 8,
C trisperma 13,15,1,16,18,12,6,9,17
C basio 10,2,14,20,2,5,19