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## **Site 6035 (Boreal Stand 35): Carp River at US 41, Marquette County, Michigan, Township 48N, Range 26W, Section 29. 1955-08-18**

[s.l.]: [s.n.], 1955-08-18

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[= site 6035]

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 35

Name: Carp River at US. 41  
County: Marquette Co. N. Mich.  
Date: Aug. 18, 1955  
Size of Stand: 12-15 acres.  
Forest Type: Spruce-fir pine  
Topography: Outcrop + gently rolling

Locality:  
T: 48N R: 26W Sec: SE 29

20 yd int.

Observers:  
PFM

Size of Area Sampled:  
Soil Type:  
Slope: Gradual slope NE to Carp River  
Directions

Condition of Stand:

Logged for pine + probably burned.  
Fairly extensive stand but only small portion homo for Ws - only 20 pts taken  
Only good Ws along the River

Open Grown Trees:

% Canopy:

Stumps:

1.	4.	7.	10.
2.	5.	8.	11.
3.	6.	9.	12.

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
Ao									
A1									
A2									
B									

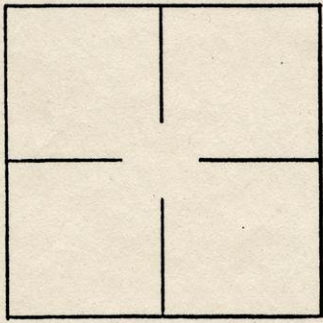
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

DEPTH	CHARACTERISTICS (Color, Texture, Structure, etc.)
Ao #1 1/2" litter 1/4 ferment	#2 2" litter 1/2 ferment
A1 - 1/4" almost lacking	1" black
A2 3" black-grey sandy loam with stone	2 1/2" grey sandy
B black-grey sandy loam	then reddish sand

Parent Material:

Map:





LICHENS OF GREAT LAKES SPRUCE-FIR COMMUNITIES  
NORTHERN MICHIGAN  
Marquette County



Carp River at Hy. 41 T48N R26W SEC 29  
White spruce, balsam & white pine. Gently  
folling, gradual slope to N.E., rock outcrop.  
Logged for pine and burned.

August 18, 1955. Coll. Paul F. Maycock



*Spruce-fir*  
~~Northern Pine Hardwoods~~

Station Number: 35 - 1762

Mid range  
Indep.

N. limit  
Index

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM.	# SAP	D. % SAP	F. % SDL.	F. % TRS.	% SUM F. TR.	D. % TRS.	DOM% TRS.	DFD INDEX	C. I.	
			-80	-320	321											
533.7 Abies bals	14	17				1150	30	37.5		70.0	21.5	<del>16.6</del> 21.2	16.6	59.3	415.1	474.4
59.6 Acer rubru	9	9				336	8	10.0		45.0	13.8	<del>11.2</del> 11.2	4.8	29.8	178.8	149.0
25.6 A. sacchar	2	2				66	2	2.5		10.0	3.1	<del>2.4</del> 2.4	0.9	6.4	64.0	32.0
A. spicatu																
Betula lut																
333.0 B. papyrif	6	8				979	1	1.3		30.0	9.2	<del>10.0</del> 10.0	14.1	33.3	166.5	299.7
Carpinus c																
Fagus gran																
Ostrya vir																
724.0 Picea glau	14	20				1796	8	10.0		70.0	21.5	<del>12.5</del> 25.0	25.9	72.4	434.4	724.0
111.0 Picea mar. Pinus Bank	2	4				210	2	2.5		10.0	3.1	<del>5.0</del> 5.0	3.0	11.1	22.2	111.0
P. resinosa																
399.7 P. Strobus	10	11				1929				50.0	15.4	<del>13.9</del> 13.9	27.8	57.1	285.5	342.6
Populus ba																
P. grandid																
8.0 P. tremulo															1.0	1.0
24.6 Prunus serot. per	2	2				188	9	11.3		10.0	3.1	<del>2.4</del> 2.4	2.7	8.2	32.8	24.6
Quercus el																
5.0 Q. rubra															1.0	1.0
Tilia amer																
Tsuga cana																
152.8 Thuja occi	5	6				268	14	17.5		25.0	7.7	<del>7.5</del> 7.5	3.9	19.1	133.7	133.7
13.2 Ulmus amer																
U. fulva	1	1				18				5.0	1.6	<del>1.4</del> 1.4	0.3	3.3	26.4	23.1
9.0 Pyrus amer.							2	2.5							1.0	1.0
3.0 Amelanchier							2	2.5							1.0	1.0
Prunus virg Prunus pen							1	1.3								
240.2 TOTALS		80				6,940	80	100.0		325.0	100.0	100.0	100.0	300.0	1762	2318.1

AVE. DIST. BTW'M TREES:  
10.2

AVE. B. A.:  
86.8

# TREES/ACRE:  
419

DOM./ACRE:  
36,369



POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 35 (1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4 29	5 36 8 49		3 1/2 58		10 1/2 72	9 1/2 142	12 1/2 24 18 105	14 1/2 49	
Acer rubrum					2 1/2 28	12 1/2 27		4 1/2 42	7 19	
A. sacchar.								10 1/2 28		
A. spicatum										
Betula lut.										
B. papyrif		16 122					7 131 11 240 15 68			1 1/2 120
Carpinus car										
Fagus gran										
Ostrya virg			17 105							
Picea glau			10 112 16 135	19 131	20 170	14 64			6 21	8 191
Pinus <sup>mariana</sup> Bank	9 1/2 82 8 1/2 22		18 49		6 20 10 26					
P. resinosa										
P. Strobus		9 1/2 198		10 1/2 72					13 1/2 137	7 325
Populus bals										
P. grand										
P. trem										
Prunus <sup>sp</sup> pen.				10 150		16 38				
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ	7 25									
Ulmus amer										
U. fulva										21 18
P.										
Litter	3"	4"	1/2	1/2	1/2	1/4	1/4	1/4	1/2	1"
Canopy	70	45	30	55	50	30	20	50	55	40
Distance	29	38 1/2	61	43	38 1/2	53	42 1/2	45 1/2	41	37 1/2

Average canopy 46.5

Av. litter 1.2



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 35(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10					
Abies balsam	3 1/2	11		4 1/2	26	9	36	8 1/2	51	19	121	9	101	8 1/2	76
Acer rubrum	6 1/2	45	9 1/2	20	59	6 1/2	49					6 1/2	47		
A. sacchar.									9 1/2	38					
A. spicatum															
Betula lut.															
B. papyrif	4 1/2	78							3 1/2	42				11	108
Carpinus car															
Fagus gran															
Ostrya virg															
Picea glau		8 1/2	131	3	145	19	96	8	37	7 1/2	81	13	42	7 1/2	78
		7	36					11 1/2	72					3	48
														15	52
Pinus Bank															
P. resinosa															
P. Strobus	5	22	11	220	17	210			8	65	12 1/2	285	14	210	
					15	185									
Populus bals															
P. grand															
P. trem															
Prunus pen.															
Quercus ell															
Q. rubra															
Tilia amer															
Tsuga can															
Thuja occ				6	47			7 1/2	36	13 1/2	76			3	32
														4	52
Ulmus amer															
U. fulva															
Little	1 1/2	2	1	1	1/2	1 1/2	2	1 1/2	1	1					
Canopy	65	50	55	60	20	50	45	40	60	40					
Distance	19 1/2	36	50	36	50 1/2	31 1/2	58	34 1/2	33 1/2	26 1/2					



POINT RECORD TREES *SAPLINGS* NORTHERN PINE-HARDWOODS

Stand No. 35(1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam		4	8½ 12½	10 20	4 9½	13½	1½ 11	10	6	13½ 9 18
Acer rubrum	8								8	12½
A. sacchar.							1½		10	
A. spicatum										
Betula lut.										
B. papyrif	4									
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau			12					6 11½		
Pinus <i>mariana</i> Bank		8½				13½				
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.	9									
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can r										
Thuja occ				4	8½ 14	5 9		3		
Ulmus amer										
U. fulva										
<i>Prunus serot</i>	8	6 11	6							
<i>Pyrus amer.</i>							6½		1	
<i>Amelanchier</i>										
Distance	29	29½	39	43½	30½	41	20½	30½	25	53



POINT RECORD TREES *SAPLINGS* NORTHERN PINE-HARDWOODS

Stand No. 35 (2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	6 13	12	14 3	7 12	13 1/2 13	9 1/2	2 10	9	12	4
Acer rubrum			12			15		12	10	7
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau		8		16	4 1/2		12		4 1/2	
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen. <sup>scot</sup>		8 1/2 11 1/2						4' 16		
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ				7		7 1/2 15			7	4 3
Ulmus amer										
U. fulva										
<i>Amandulus</i>	9 11									
<i>Prunus serot</i>					10					
<i>Prunus nig</i>							12			
Distance	39	39	36	48 1/2	37	42 1/2	36	41	33 1/2	18











	P.							10					20	
Desmodium glutinosum														
Dicentra canadensis														
Dicentra cucullaria														
Diervilla lonicera	✓	✓	✓					✓	✓	✓			5	50
Dirca palustris														
Dryopteris bootii														
Dryopteris cristata	✓													1
Dryopteris disjuncta	✓			✓									1	10
Dryopteris goldiana														
Dryopteris marginalis														
Dryopteris noveboracensis														
Dryopteris phegopteris	✓													1
Dryopteris spinulosa	✓													1
Empetrum nigrum														
Epifagus virginiana														
Epigaea repens	✓													1
Epilobium angustifolium	✓													1
Epilobium glandulosum	✓													1
Epilobium strictum														
Equisetum arvense														
Equisetum pratense														
Equisetum scirpoides														
Equisetum sylvaticum	✓													1
Erigeron annuus														
Erigeron philadelphicus														
Erigeron strigosus														
Erythronium albidum														
Erythronium americanum														
Eupatorium maculatum	✓													1
Eupatorium perfoliatum														
Eupatorium purpureum														
Fagopyrum sagittatum														
Festuca obtusa														
Fragaria vesca	✓		✓		✓		✓		✓				3	30
Fragaria virginiana	✓													
Galium aparine														
Galium asprellum	✓													1
Galium boreale														
Galium concinnum														
Galium lanceolatum														
Galium triflorum	✓		✓						✓				2	20
Gaultheria hispidula	✓													1
Gaultheria procumbens	✓													1
Gaylussacia baccata														
Gentiana andrewsii														
Gentiana crinata														
Gentiana linearis														
Gentiana quinquefolia														
Geocalon lividum	✗													✗
Geranium bicknelli														
Geranium maculatum														
Geranium robertianum														

OMIT  
STREAMCIDE

OMIT

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	P.								10						20	
Luzula multiflora																
Lycopodium annotinum	✓															1
Lycopodium clavatum	✓															1
Lycopodium complanatum																
Lycopodium inundatum																
Lycopodium lucidulum																
Lycopodium obscurum																
Lycopodium sabinaefolium																
Lycopodium selago																
Lycopodium tristachyum																
Lycopus americanus																
Lycopus uniflorus																
Lysimachia ciliata																
Lysimachia quadrifolia																
Lysimachia terrestris																
Maianthemum canadense	✓	✓	✓			✓									3	30
Malaxis unifolia																
Medeola virginiana																
Melampyrum lineare																
Menispermum canadense																
Mertensia paniculata																
Milium effusum																
Mitchella repens	✓								✓	✓	✓				3	30
Mitella diphylla																
Mitella nuda	✓					✓									1	10
Moneses uniflora																
Monotropa hypopithys																
Monotropa uniflora																
Mosses spp.	✓	✓	✓	✓	✓	✓	✓		✓	✓					8	80
Nemopanthus mucronata	✓															1
Onoclea sensibilis																
Orchis spectabilis																
Oryzopsis asperifolia	✓								✓						1	10
Oryzopsis racemosa																
Osmorhiza claytoni	✓															1
Osmorhiza longistylis																
Osmunda claytoniana	✓															1
Osmunda cinnamomea																
Osmunda regalis																
Oxalis montana																
Oxalis stricta																
Panax quinquefolius																
Panax trifolius																
Parthenocissus inserta																
Parthenocissus quinquefolia																
Petasites palmatus	✓									✓					1	10
Phleum pratense																
Phlox divaricata																
Phryma leptostachya																
Plantago major																
Poa compressa																
Poa pratensis																

DMIT  
STIGERMA 1912



















## PRESENCE LIST

## SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 35

## TREES

- ✓ *Abies balsamea*
- Acer pensylvanicum*
- ✓ *Acer rubrum*
- ✓ *Acer saccharum*
- ✓ *Acer spicatum*
- ✓ *Amelanchier* spp.
- Betula lutea*
- ✓ *Betula papyrifera*
- Carpinus caroliniana*
- ✓ *Crataegus* spp.
- Fagus grandifolia*
- Fraxinus americana*

- Fraxinus nigra*
- Fraxinus pensylvanicum*
- Larix laricina*
- Ostrya virginiana*
- ✓ *Picea glauca*
- ✓ *Picea mariana*
- Pinus banksiana*
- Pinus resinosa*
- ✓ *Pinus strobus*
- Populus balsamifera*
- Populus grandidentata*
- ✓ *Populus tremuloides*

- Prunus nigra*
- ✓ *Prunus pensylvanica*
- ✓ *Prunus serotina*
- ✓ *Prunus virginiana*
- ✓ *Pyrus americana*
- Pyrus decora*
- ✓ *Quercus rubra* var. *borealis*
- ✓ *Thuja occidentalis*
- Tilia americana*
- Tsuga canadensis*
- Ulmus americana*
- ✓ *Ulmus rubra*

## SHRUBS

- Alnus crispa*
- ✓ *Alnus rugosa*
- Arctostaphylos uva-ursi*
- Celastrus scandens*
- Chamaedaphne calyculata*
- Comptonia peregrina*
- Cornus alternifolia*
- Cornus racemosa*
- ✓ *Cornus rugosa*
- Cornus stolonifera*
- Corylus americana*
- ✓ *Corylus cornuta*
- ✓ *Diervilla lonicera*
- Dirca palustris*
- Empetrum nigrum*
- Gaylussaccia baccata*
- Hamamelis virginiana*
- Ilex verticillata*
- Juniperus communis*
- Juniperus horizontalis*
- Ledum groenlandicum*
- ✓ *Lonicera canadensis*
- Lonicera dioica*

- ✓ *Lonicera hirsutum*
- Lonicera involucrata*
- Lonicera oblongifolia*
- Lonicera villosa*
- Parthenocissus quinquefolia*
- Parthenocissus vitacea*
- Prunus pumila*
- Pyrus melanocarpa*
- Rhamnus alnifolia*
- Rhus glabra*
- Rhus typhina*
- Ribes americanum*
- Ribes cynosbati*
- Ribes glandulosum*
- Ribes hirtellum*
- Ribes lacustre*
- Ribes oxycanthoides*
- ✓ *Ribes triste*
- ✓ *Rosa* sp.
- Rubus allegheniensis*
- ✓ *Rubus* (blackberry)
- ✓ *Rubus* (dewberry)
- Rubus* (raspberry)

- ✓ *Rubus idaeus*
- ✓ *Rubus parviflorus*
- ✓ *Salix* sp.
- Sambucus canadensis*
- ✓ *Sambucus pubens*
- Shepherdia canadensis*
- Smilax tamnoides* var. *hispida*
- ✓ *Spiraea alba*
- Spiraea latifolia*
- Symphoricarpos albus*
- Symphoricarpos occidentalis*
- ✓ *Taxus canadensis*
- ✓ *Vaccinium angustifolium*
- ✓ *Vaccinium myrtilloides*
- Vaccinium vitis-idaea*
- Viburnum acerifolium*
- Viburnum cassinoides*
- Viburnum edule*
- Viburnum lentago*
- Viburnum rafinesquianum*
- ✓ *Viburnum trilobum*
- Vitis vulpina*
- Zanthoxylum americanum*

## HERBS

- ✓ *Achillea millefolium*
- Actaea pachypoda*
- ✓ *Actaea rubra*
- Adiantum pedatum*
- Agrimonia gryposepala*
- Agrostis perennans*
- Allium tricoccum*
- Amphicarpa bracteata*
- ✓ *Anaphlis margaritacea*
- Anemone canadensis*
- Anemone cylindrica*
- ✓ *Anemone quinquefolia*
- Anemone virginiana*
- ✓ *Antennaria* sp.
- ✓ *Apocynum androsaemifolium*
- ✓ *Aquilegia canadensis*
- ✓ *Aralia nudicaulis*
- Aralia racemosa*
- Arisaema atrorubens*
- Asarum canadense*
- Asclepias exaltata*
- Aster furcatus*
- ✓ *Aster macrophyllum*
- ✓ *Aster nova-angliae*
- Aster paniculatus*

- Aster puniceus*
- Aster sagittifolius*
- ✓ *Aster umbellatus*
- ✓ *Athyrium filix-femina*
- Athyrium thelypteroides*
- Botrychium lunaria*
- Botrychium matricariaefolium*
- Botrychium multifidum*
- Botrychium virginianum*
- Calypso bulbosa*
- Campanula rotundifolia*
- ✓ *Carex arctata*
- Carex intumescens*
- ✓ *Carex pensylvanica*
- Carex woodii*
- ✓ *Carex* spp.
- ✓ *Chimaphila umbellata*
- Chrysanthemum leucanthemum*
- Chrysosplenium americanum*
- Cinna latifolia*
- Circaea alpina*
- Claytonia caroliniana*
- Claytonia virginiana*
- ✓ *Clematis virginiana*
- Clematis verticillaris*

- ✓ *Clintonia borealis*
- Comandra richardsiana*
- Comandra umbellata*
- ✓ *Coptis groenlandicum*
- Corallorhiza maculata*
- Corallorhiza striata*
- Corallorhiza trifida*
- ✓ *Cornus canadensis*
- Corydalis sempervirens*
- Cynoglossum officinale*
- ✓ *Cypripedium acaule*
- Cypripedium calceolus* var. *pubescens*
- Cystopteris fragilis*
- Dalibarda repens*
- Desmodium glutinosum*
- Dicentra canadensis*
- Dicentra cucullaria*
- ✓ *Dryopteris cristata*
- ✓ *Dryopteris disjuncta*
- Dryopteris goldiana*
- Dryopteris marginalis*
- ✓ *Dryopteris phegopteris*
- ✓ *Dryopteris spinulosa*



## PRESENCE LIST

## SPRUCE-FIR - MIXED HARDWOODS

STAND 35

- |   |  |                                   |
|---|--|-----------------------------------|
| ✓ <i>Epigaea repens</i>                             | <i>Lycopodium lucidulum</i>                        | ✓ <i>Ranunculus acris</i>         |
| ✓ <i>Epilobium angustifolium</i>                    | <i>Lycopodium obscurum</i>                         | <i>Ranunculus pensylvanicus</i>   |
| ✓ <i>Epilobium glandulosum</i>                      | <i>Lycopodium obscurum</i> var. <i>dendroideum</i> | <i>Ranunculus recurvatus</i>      |
| <i>Epilobium strictum</i>                           | <i>Lycopodium selago</i>                           | <i>Ranunculus repens</i>          |
| <i>Equisetum pratense</i>                           | <i>Lycopodium tristachyum</i>                      | <i>Ranunculus septentrionalis</i> |
| ✓ <i>Equisetum sylvaticum</i>                       | <i>Lysimachia ciliata</i>                          | <i>Rhus radicans</i>              |
| <i>Erigeron annuus</i>                              | <i>Lysimachia quadrifolia</i>                      | ✓ <i>Rubus pubescens</i>          |
| <i>Erigeron philadelphicus</i>                      | <i>Lysimachia terrestris</i>                       | <i>Sanguinaria canadensis</i>     |
| <i>Erigeron strigosus</i>                           | ✓ <i>Maianthemum canadense</i>                     | ✓ <i>Sanicula marilandica</i>     |
| <i>Erythronium albidum</i>                          | <i>Malaxis unifolia</i>                            | ✓ <i>Satureja vulgaris</i>        |
| <i>Erythronium americanum</i>                       | <i>Medeola virginiana</i>                          | <i>Schizachne purpurascens</i>    |
| ✓ <i>Fragaria vesca</i>                             | <i>Melampyrum lineare</i>                          | <i>Scutellaria epilobiifolia</i>  |
| <i>Fragaria virginiana</i>                          | ✓ <i>Mitchella repens</i>                          | <i>Scutellaria lateriflora</i>    |
| <i>Galium aparine</i>                               | <i>Mitella diphylla</i>                            | <i>Smilacina racemosa</i>         |
| <i>Galium boreale</i>                               | ✓ <i>Mitella nuda</i>                              | <i>Smilacina stellata</i>         |
| <i>Galium concinnum</i>                             | <i>Moneses uniflora</i>                            | <i>Smilacina trifolia</i>         |
| <i>Galium lanceolatum</i>                           | <i>Monotropa hypopithys</i>                        | <i>Smilax herbacea</i>            |
| ✓ <i>Galium triflorum</i>                           | <i>Monotropa uniflorus</i>                         | <i>Solidago canadensis</i>        |
| ✓ <i>Gaultheria hispidula</i>                       | <i>Onoclea sensibilis</i>                          | <i>Solidago flexicaulis</i>       |
| ✓ <i>Gaultheria procumbens</i>                      | <i>Orchis spectabilis</i>                          | <i>Solidago graminifolia</i>      |
| <i>Gentiana andrewsii</i>                           | ✓ <i>Osmorhiza claytoni</i>                        | <i>Solidago ulmifolia</i>         |
| <i>Gentiana crinata</i>                             | <i>Osmorhiza longistylis</i>                       | <i>Stellaria calycantha</i>       |
| <i>Gentiana quinquefolia</i>                        | <i>Osmunda cinnamomea</i>                          | <i>Streptopus amplexifolius</i>   |
| ✓ <i>Geocaulon lividum</i>                          | ✓ <i>Osmunda claytoniana</i>                       | ✓ <i>Streptopus roseus</i>        |
| <i>Geranium bicknelli</i>                           | <i>Oxalis montana</i>                              | ✓ <i>Taraxacum officinale</i>     |
| <i>Geranium maculatum</i>                           | <i>Oxalis stricta</i>                              | ✓ <i>Thalictrum dioicum</i>       |
| <i>Geum rivale</i>                                  | <i>Panax quinquefolius</i>                         | <i>Thalictrum polygamum</i>       |
| <i>Goodyera repens</i>                              | <i>Panax trifolius</i>                             | <i>Tiarella cordifolia</i>        |
| <i>Goodyera tessellata</i>                          | ✓ <i>Petasites palmatus</i>                        | ✓ <i>Trientalis borealis</i>      |
| <i>Habenaria hyperborea</i>                         | <i>Phlox divaricata</i>                            | ✓ <i>Trillium cernuum</i>         |
| <i>Habenaria orbiculata</i>                         | <i>Poa compressa</i>                               | <i>Trillium erectum</i>           |
| <i>Habenaria psycodes</i>                           | <i>Poa pratensis</i>                               | <i>Trillium grandiflorum</i>      |
| <i>Habenaria viridis</i>                            | <i>Polygala paucifolia</i>                         | <i>Trillium undulatum</i>         |
| <i>Halenia deflexa</i>                              | <i>Polygonatum biflorum</i>                        | <i>Uvularia grandiflora</i>       |
| <i>Helianthus strumosus</i>                         | <i>Polygonatum pubescens</i>                       | ✓ <i>Uvularia sessilifolia</i>    |
| <i>Hepatica acutiloba</i>                           | <i>Polymnia canadensis</i>                         | <i>Vicia americana</i>            |
| ✓ <i>Hepatica americanum</i>                        | <i>Polypodium virginianum</i>                      | <i>Viola adunca</i>               |
| ✓ <i>Hieracium aurantiacum</i>                      | <i>Potentilla norvegica</i>                        | <i>Viola blanda</i>               |
| <i>Hieracium canadense</i>                          | <i>Potentilla simplex</i>                          | <i>Viola canadensis</i>           |
| <i>Hieracium scabrum</i>                            | <i>Potentilla tridentata</i>                       | ✓ <i>Viola conspersa</i>          |
| ✓ <i>Impatiens capensis</i>                         | ✓ <i>Prenanthes alba</i>                           | ✓ <i>Viola cucullata</i>          |
| <i>Iris lacustris</i>                               | <i>Primula mistassinaca</i>                        | ✓ <i>Viola incognita</i>          |
| <i>Isopyrum biternatum</i>                          | ✓ <i>Prunella vulgaris</i>                         | <i>Viola nephrophylla</i>         |
| <i>Lathyrus ochroleucus</i>                         | ✓ <i>Pteridium aquilinum</i>                       | ✓ <i>Viola pallens</i>            |
| ✓ <i>Linnaea borealis</i>                           | ✓ <i>Pyrola asarifolia</i>                         | ✓ <i>Viola papilionacea</i>       |
| <i>Lobelia inflata</i>                              | ✓ <i>Pyrola elliptica</i>                          | ✓ <i>Viola pubescens</i>          |
| ✓ <i>Lycopodium annotinum</i>                       | <i>Pyrola minor</i>                                | ✓ <i>Viola renifolia</i>          |
| ✓ <i>Lycopodium clavatum</i>                        | <i>Pyrola rotundifolia</i>                         | <i>Viola selkirkii</i>            |
| <i>Lycopodium clavatum</i> var. <i>megastachyon</i> | <i>Pyrola secunda</i>                              | <i>Viola sororia</i>              |
| <i>Lycopodium complanatum</i>                       | <i>Pyrola virens</i>                               | <i>Waldsteinia fragarioides</i>   |
| <i>Lycopodium inundatum</i>                         | <i>Ranunculus abortivus</i>                        |                                   |

## Additional species

Mosses  
 Lichens  
*Nemophanthus mucronata*  
*Cryptogramma asperum*  
*Brachyelytrum erectum*  
*Carex pedunculata*  
*Solidago flexicaulis*  
 White Ast. - *lateriflorus*  
*Scum allep.*  
*Viola sp. coll. pallens*  
 Bram. - *Glyceria striata*

*Eupatorium maculatum*  
*Thalictrum dasycarpum*  
*Sphagnum*  
*Cirsium* sp.  
*Salsum asperum*  
 Veda - wide space - *incognita*  
*Cirsium lanceolatum*  
*Lactuca canad.*  
*Cirsium arvense*  
*Taraxacum pratense*

*Convolvulus spithameus*  
*Carex projecta*



FREQUENCY DATA  
(Common Species)

## SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 35 (1)

## TREE SEEDLINGS

- 07652 Abies balsamea  
Acer pensylvanicum  
7 Acer rubrum  
5 Acer saccharum  
4 Acer spicatum  
Betula lutea  
5 Betula papyrifera

- Fagus grandifolia  
Larix laricina  
Ostrya virginiana  
8 Picea glauca  
Picea mariana  
Pinus banksiana  
Pinus resinosa

- 2 *Pyrus amer.*  
Pinus strobus  
Populus tremuloides  
Prunus pensylvanica  
987 Prunus serotina  
43 Thuja occidentalis  
Tilia americana  
Tsuga canadensis

872 *Amelanchier*

- Alnus rugosa  
Arctostaphylos uva-ursi  
Comptonia peregrina  
Corylus americana

## SHRUBS

- Rubus parviflorus  
Sambucus pubens  
Shepherdia canadensis  
Spiraea alba  
Symphoricarpos occidentalis  
Taxus canadensis  
1 Vaccinium angustifolium  
652 Vaccinium myrtilloides  
Viburnum acerifolium  
Viburnum trilobum

- 1 Corylus cornuta  
09821 Diervilla lonicera  
Dirca palustris  
Ilex verticillata  
Ledum groenlandicum  
2 Lonicera canadensis

- Prunus pumila  
Pyrus melanocarpa  
Ribes cynosbati  
Ribes glandulosum  
Ribes lacustre  
Rosa sp.  
Rubus (blackberry)  
Rubus (dewberry)  
Rubus (raspberry)  
4 Rubus idaeus

83 *Cornus rugosa*  
95 *Fouera hirsutum*

- Actaea pachypoda  
Actaea rubra  
Adiantum pedatum  
Anaphlis margaritacea  
Anemone cylindrica  
0 Anemone quinquefolia  
Anemone virginiana  
Antennaria spp.

## HERBS

- 4 Mitella nuda  
Monotropa uniflora  
Osmorhiza claytoni  
Oxalis montana  
Oxalis stricta  
Polygala paucifolia  
Polygonatum pubescens  
Prenanthes alba  
071 Pteridium aquilinum  
Pyrola elliptica  
Pyrola rotundifolia  
Pyrola secunda  
Ranunculus acris  
Rhus radicans  
9654 Rubus pubescens  
Sanguinaria canadensis  
Smilacina racemosa  
Smilacina stellata  
Streptopus roseus  
Tiarella cordifolia  
21 Trientalis borealis  
Trillium erectum  
Trillium grandiflorum  
Uvularia sessilifolia  
Viola canadensis  
Viola cucullata  
Viola pallens  
4 Viola pubescens  
Viola renifolia  
Waldsteinia fragarioides

- 9 Apocynum androsaemifolium  
Aquilegia canadensis

- Dryopteris spinulosa  
Epigaea repens  
Epilobium angustifolium  
Equisetum sylvaticum  
Erythronium americanum

- 863 Fragaria vesca  
Fragaria virginiana  
Galium aparine  
92 Galium triflorum  
Gaultheria hispidula  
Gaultheria procumbens  
Gentiana quinquefolia  
Geranium maculatum  
Goodyera repens  
Habenaria obtusata  
Halenia deflexa  
Hepatica acutiloba  
9 Hepatica americana  
Hieracium aurantiacum  
Linnaea borealis  
Lycopodium annotinum  
Lycopodium clavatum  
Lycopodium complanatum  
Lycopodium lucidulum  
Lycopodium obscurum  
521 Maianthemum canadense  
Medeola virginiana  
Melampyrum lineare  
098 Mitchella repens  
Mitella diphylla

- 74 Aralia nudicaulis  
Arisaema atrorubens  
097652 Aster macrophyllus  
94 Athyrium filix-femina  
Botrychium virginianum  
03 Carex pensylvanica  
Chimaphila umbellata  
Chrysanthemum leucanthemum  
Circaea alpina  
Claytonia caroliniana  
Claytonia virginiana

- 641 Clintonia borealis  
062 Coptis groenlandicum  
Corallorhiza maculata  
9652 Cornus canadensis  
Cystopteris fragilis  
Dicentra canadensis  
Dicentra cucullaria  
4 Dryopteris disjuncta  
Dryopteris phegopteris

## Additional species

Mosses 12-345689  
Lichens 68  
Carex acutata 234589  
Carex pedunculata 245789

Erans sp. 3  
Carex sp. 3  
Aster umbell. 3  
Viola conspersa 45  
Sium alle. 4

Viola incognita 235680  
Onychopteris 7  
Podophyllum 9

Pyrola asarifolia 9  
Potamogeton palm. 0