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Site 6033 (Boreal Stand 33): Silver River, Keweenaw County, Michigan, Township 59N, Range 29W, Section 28. 1955-08-15

[s.l.]: [s.n.], 1955-08-15

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[= Site 6033]

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 33

Name: Silver River
 County: Keweenaw, N. Mich.
 Date: Aug. 15, 1955

2 Miles SW. of Silver River on Hy 26

Locality:

T: 59 N R: 29 W Sec: N 1/2 28

Observers:

PFM

Size of Area Sampled:

Forest Type: aspen-brick-spruce fir

Soil Type:

Topography: rolling, outcrop, fairly steep, N. facing slope.

Slope: fairly steep

Directions N. facing

Condition of Stand:

Much of aspen + birch are decadent + thinning is taking place
 Previously logged + burned
 mostly outcrop - dry - mesic site

Undercover lush in open spaces - mostly Aster macrophyllus + Rubus parviflorus
 Gradual slowdown incident
 Staking in birch, aspen varies from place to place
 Stand encountered by PFM.

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.
A ₀	_____	_____	_____	_____	_____	_____	_____	_____	_____
A ₁	_____	_____	_____	_____	_____	_____	_____	_____	_____
A ₂	_____	_____	_____	_____	_____	_____	_____	_____	_____
B	_____	_____	_____	_____	_____	_____	_____	_____	_____

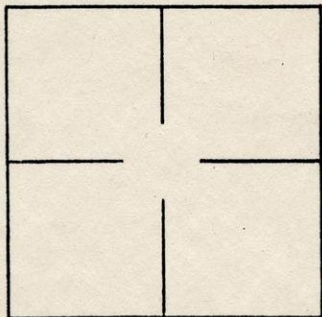
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	#1 little no ferment	#2 1/2 little 1/4 ferment	Same as #1 + #2
A ₁	1/2 brownish	1" brownish	
A ₂	then small red stone in	then small red stone	
B	brown clay loam for 7" no leaching incident	in brown red clay loam for 6", no leaching incident	

Parent Material:

Map:



LICHENS OF GREAT LAKES SPRUCE-FIR COMMUNITIES

NORTHERN MICHIGAN

Keweenaw County



2 miles S.W. of Silver River, Hy. 26

T29N R29W SEC 28

Balsam, aspen, white birch. Rolling, on boulders. Approx. 40 yrs, logged & burned, aspen & birch covering to balsam.

August 15, 1955. Coll. Paul F. Maycock

Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

Spruce - fir
Northern Pine HardwoodsDry - Mesic
110.4
Abies balsamea - Populus tremuloides - Betula papyrifera

✓ Station Number: 33 - 1465

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.	N. limit Index
			-80	-320	321											
831.6	Abies bals	34	55		34.4	1364	108	67.5		85.0	34.3	34.4	23.7	92.4	646.8	739.2
2.0	Acer rubru											2			1.0	
24.4	A. sacchar	3	3		1.9	68	2	1.3		7.5	3.0	1.9	1.2	6.1	61.0	30.5
16.2	A. spicatu	1	1		0.6	14	9	5.6		2.5	1.0	0.6	0.2	1.8	10.8	14.4
	Betula lut															
823.0	B. papyrif	23	40		25.0	1958	17	10.6		57.5	23.2	25.0	34.1	82.3	411.5	740.7
	Carpinus c															
	Fagus gran															
	Ostrya vir															
180.0	Picea glau	8	8		5.0	277	6	3.8		20.0	8.2	5.0	4.8	18.0	108.0	180.0
	Pinus Bank															
	P. resinosa															
7.0	P. Strobus														1.0	1.0
	Populus ba															
	P. grandid															
739.2	P. tremulo	27	50		31.3	1947	9	5.6		67.5	27.3	31.2	33.9	92.4	184.8	831.6
	Prunus pen															
	Quercus el															
	Q. rubra															
	Tilia amer															
	Tsuga cana															
8.0	Thuja occi						6	3.8							1.0	1.0
11.6	Ulmus amer	1	1		0.6	75				2.5	1.0	0.6	1.3	2.9	23.2	20.3
	U. fulva															
36.9	Pyrus amer.	2	2		1.3	44	1	0.6		5.0	2.0	1.3	0.8	4.1	16.4	24.6
	Amelanchier						2	1.3								
2680	TOTALS		160			5747	160	100.0		247.5	100.0	100.0	100.0	300.0	1465	2583.3

AVE. DIST. BTW'N TREES:

7.5

AVE. B. A.:

35.9

TREES/ACRE:

774

DOM. /ACRE:

27,787

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 33 (1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	10 16 10 14	4 19 7 1/2 25	2 18 2 1/2 23 13 1/2 28	4 30		12 1/2 22	12 21	5 30	12 16 14 22	8 33
Acer rubrum										
A. sacchar.					12 1/2 30				10 20	12 18
A. spicatum										
Betula lut.								6 1/2 35		
B. papyrif			10 28	2 1/2 23	10 1/2 210 10 1/2 59 14 40	12 1/2 62 18 44	5 84 5 1/2 22	6 1/2 62 5 1/2 22	7 1/2 44 6 1/2 54	2 1/2 21
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau							1 1/2 112			
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem	3 21 8 20	3 21 4 1/2 24		4 45 10 1/2 39			10 1/2 58			
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Pyrus amer						7 25				
Litter	1/2	1/2	1/4	1/2	1/4	1/4	1/4	1	1/2	1/4
Canopy	40	35	25	30	20	10	30	40	20	15
Distance	31	19	28	21	47 1/2	50	29	26 1/2	43 1/2	29

Ave Canopy 29.6

Ave. Litters - .4

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 33 (2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	8 1/2 31			6 1/2 12 1/2 23 10 52 11 1/2 44			12 1/2 17 1/2 13 28 3 1/2 17 1/2 13 28	10 1/2 27 3 1/2 16 7 32 15 22 4 1/2 19		
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif			12 1/2 18 10 19			8 32 8 105 9 1/2 29				
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau			4 1/2 26			8 39 14 1/2 34				
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem	8 1/2 28 1/3 19 12 34 6 1/2 26 1 1/2 39 12 1/2 36 18 54 15 26 1/2 20 6 26	11 32						3 18 8 46 12 1/2 32 8 8 15 8 22		
Prunus pen.	19 1/2 50 16 40									
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer									3 75	
U. fulva										
Litter	1/4	1/4	1/4	1/2	1/4	1/2	1/2	1/4	1/2	1"
Canopy	10	10	5	15	5	25	45	5	25	25
Distance	34 1/2	25	29 1/2	32 1/2	31 1/2	38	38	31 1/2	22 1/2	32

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 33 (3)

STATION NO.	1	2	3	4	5	6	7	8	9	10						
Abies balsam	4 1/2 11	16 22	5 17	34 26	8 1/2 36	4 1/2 5	25 29	2 16	7 1/2 19	8 1/2 20	9 1/2 35	6 3	22 20			
Acer rubrum																
A. sacchar.																
A. spicatum														8	14	
Betula lut.																
B. papyrif	9 1/2 8 1/2	21 16		4 7	34 22		4 1/2 9	34 30	3 40	3 1/2 10 1/2	29 38	10 1/2 67	13 1/2 1 1/2	46 42	10 1/2 14 1/2	61 15
Carpinus car																
Fagus gran																
Ostrya virg																
Picea glau				8	65					10 1/2 25						
Pinus Bank																
P. resinosa																
P. Strobus																
Populus bals																
P. grand																
P. trem		4 1/2 8	21 20			2 12 1/2	46 66	1 55	7 1/2 8	26 31		11 152			13	145
Prunus pen.																
Quercus ell																
Q. rubra																
Tilia amer																
Tsuga can																
Thuja occ																
Ulmus amer																
U. fulva																
Paprus amer											8 1/2 19					
Letter	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/4	1/4	3/4	1"					
Canopy	10	15	30	40	45	45	40	30	65	70						
Distance	33 1/2	34 1/2	27 1/2	24	16 1/2	26	33	39 1/2	24	46						

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 33(4)

STATION NO.	1	2	3	4	5	6	7	8	9	10								
Abies balsam	8 1/2	19	4	18	3	17	2 1/2	19	7	23	8 1/2	20	2 1/2	25	4	20	6 1/2	27
Acer rubrum					19	21			17 1/2	32	9	27		6	18			
A. sacchar.					15	22			12 1/2	21								
A. spicatum																		
Betula lut.																		
B. papyrif	8	55	7	36					3	17								
	18	62	11	44														
	16	45	4	35														
Carpinus car																		
Fagus gran																		
Ostrya virg																		
Picea glau					5	20			8 1/2	16								
Pinus Bank																		
P. resinosa																		
P. Strobus																		
Populus bals																		
P. grand																		
P. trem			1'	55	3 1/2	32	7	50	7	42	6 1/2	22	3	12	3	45	19	28
					11 1/2	40			3	38	11 1/2	39	4	26	2	52	10	34
Prunus pen.															19	27		
Quercus ell																		
Q. rubra																		
Tilia amer																		
Tsuga can																		
Thuja occ																		
Ulmus amer																		
U. fulva																		
Litter	1/4	1/2	1/2	1/2	1/4	1/4	1/4	1/4	1/2	1/2	1/4							
Canopy	35	40	55	20	15	20	30	50	60	35								
Distance	40 1/2	16	18	22 1/2	34	27 1/2	29 1/2	15 1/2	18	29 1/2								

POINT RECORD TREES *SAPLINGS*

NORTHERN PINE-HARDWOODS

Stand No. 33 (1)

STATION NO.	1	2	3	4	5	6	7	8	9	10	
Abies balsam	5 1/2 7 1/2	3 6	6 1/2 2 3	8 1/2 1 5 2 1/2	5 3 4	10 1/2 13	11 3 8	5 9 1/2	3 3 1/2	6 9 1/2 11 1/2	6 10 10
Acer rubrum											
A. sacchar.									10		
A. spicatum						8 1/2 11					
Betula lut.											
B. papyrif											10
Carpinus car											
Fagus gran											
Ostrya virg											
Picea glau											
Pinus Bank											
P. resinosa											
P. Strobus											
Populus bals											
P. grand											
P. trem											
Prunus pen.											
Quercus ell											
Q. rubra											
Tilia amer											
Tsuga can											
Thuja occ	8 1/2						3 1/2				
Ulmus amer											
U. fulva											
Pyrus amer					5 1/2						
Distance	29	17 1/2	19	11 1/2	23 1/2	43	25 1/2	21	37	36	

POINT RECORD TREES *SAPLINGS* NORTHERN PINE-HARDWOODS

Stand No. 33(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Abies balsam</i>	12 5 1/2	2 1/2 10 1/2	3 1/2 3 1/2	3 1/2 5	13 1/2 3	12 1/2 9	11 8 1/2	12 2	3	12
<i>Acer rubrum</i>										
<i>A. sacchar.</i>	3 1/2									
<i>A. spicatum</i>								8		
<i>Betula lut.</i>										
<i>B. papyrif</i>		6				8 1/2		10 1/2	9	7 1/2
<i>Carpinus car</i>										
<i>Fagus gran</i>										
<i>Ostrya virg</i>										
<i>Picea glau</i>		1							8 7	
<i>Pinus Bank</i>										
<i>P. resinosa</i>										
<i>P. Strobus</i>										
<i>Populus bals</i>										
<i>P. grand</i>										
<i>P. trem</i>			1	4	4		9 1/2 9			9
<i>Prunus pen.</i>										
<i>Quercus ell</i>										
<i>Q. rubra</i>										
<i>Tilia amer</i>										
<i>Tsuga can</i>										
<i>Thuja occ</i>										
<i>Ulmus amer</i>										
<i>U. fulva</i>										
<i>Amelanchier</i>			9							
Distance	31	13	17	16 1/2	31 1/2	39 1/2	38	32 1/2	27	40

POINT RECORD TREES ~~SAPLINGS~~ NORTHERN PINE-HARDWOODS

Stand No. 33 (3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	9 3/2	5 9/2 4 1/2	6 3/2 3 1/2	9 1/2 13 1/2 10 4 3	3	8 1/2 7 1/2 10	6 7	4 13 1/2 9	5 1/2 4 6	
Acer rubrum										
A. sacchar.										
A. spicatum										5 6 2 13
Betula lut.										
B. papyrif	11		2 1/2 16			3 1/2 9	8		5	
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	3 1/2									
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem		13			8					
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ					4			4		
Ulmus amer										
U. fulva										
Distance	27	31 1/2	28	37	18	28	31	30 1/2	20 1/2	25

POINT RECORD TREES SAPLINGS NORTHERN PINE-HARDWOODS

Stand No. 33 (4)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4 1/2	2 1/2 3	1 1/2 4 1/2 5	2 1	6 10	12 1/2 8	4 9 4 1/2	3 1/2 4 1/2	1 6	8 2 6 3 5 3
Acer rubrum										
A. sacchar.										
A. spicatum	7 1/2									
Betula lut.										
B. papyrif			2 1/2	4 1/2	9					
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau				4 1/2				4		
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem			3							
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ	4					8				
Ulmus amer										
U. fulva										
Amelanchier							6 1/2			
Distance	20 1/2	11	12	12	36 1/2	37 1/2	24	21	17	17

University of Wisconsin
STAND NO. 33

[illegible]

[illegible]

University of Wisconsin
STAND NO. 33

[illegible]

[illegible]

[illegible]

Data Form No. 84f
TABULATION FORM

Plant Ecology Research
SPRUCE - FIR, SPRUCE - FIR MIXED HARDWOODS

University of Wisconsin
STAND NO. 33

[illegible]

[illegible]

										10								20		
<i>Trifolium pratense</i>	✓																			1
<i>Trifolium repens</i>																				
<i>Trillium cernuum</i>																				
<i>Trillium erectum</i>																				
<i>Trillium grandiflorum</i>																				
<i>Trillium undulatum</i>																				
<i>Uvularia grandiflora</i>																				
<i>Uvularia sessilifolia</i>																				
<i>Vaccinium angustifolium</i>																				
<i>Vaccinium cespitosum</i>																				
<i>Vaccinium corymbosum</i>																				
<i>Vaccinium myrtilloides</i>																				
<i>Vaccinium ovalifolium</i>																				
<i>Vaccinium uliginosum</i>																				
<i>Vaccinium vitis-idaea</i>																				
<i>Veronica officinalis</i>																				
<i>Veronica scutellata</i>																				
<i>Veronica serpyllifolia</i>																				
<i>Viburnum acerifolium</i>																				
<i>Viburnum alnifolium</i>																				
<i>Viburnum cassinoides</i>																				
<i>Viburnum edule</i>																				
<i>Viburnum lentago</i>																				
<i>Viburnum rafinesquianum</i>																				
<i>Viburnum trilobum</i>																				
<i>Vicia americana</i>																				
<i>Viola adunca</i>																				
<i>Viola blanda</i>																				
<i>Viola canadensis</i>																				
<i>Viola conspersa</i>	✓																✓		1	5
<i>Viola cucullata</i>																				
<i>Viola incognita</i>	✓																			1
<i>Viola nephrophylla</i>																				
<i>Viola pallens</i>																				
<i>Viola papilionacea</i>																				
<i>Viola pubescens</i>																				
<i>Viola renifolia</i>																				
<i>Viola selkirkii</i>	✗																			✗
<i>Viola sororia</i>																				
<i>Vitis riparia</i>																				
<i>Waldsteinia fragarioides</i>																				
<i>Woodsia ilvensis</i>																				
<i>Xanthoxylum americanum</i>																				
Tree Seedlings																				
<i>Abies balsamea</i>	✓	✓		✓	✓			✓	✓		✓	✓	✓	✓		✓		✓	✓	12 60
<i>Acer pensylvanicum</i>																				
<i>Acer rubrum</i>	✓			✓									✓							2 10
<i>Acer saccharum</i>																				
<i>Acer spicatum</i>	✓			✓	✓								✓	✓						4 20

[illegible]

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 33

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 pennsylvanicum
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 oxyacanthoides
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 tannoides 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 macrophyllus*
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 33

Epigaea repens
Epilobium angustifolium
Epilobium glandulosum
Epilobium strictum
Equisetum pratense
Equisetum sylvaticum
Erigeron annuus
Erigeron philadelphicus
Erigeron strigosus
Erythronium albidum
Erythronium americanum
Fragaria vesca
Fragaria virginiana
Galium aparine
Galium boreale
Galium concinnum
Galium lanceolatum
Galium triflorum
Gaultheria hispidula
Gaultheria procumbens
Gentiana andrewsii
Gentiana crinata
Gentiana quinquefolia
Geocaulon lividum
Geranium bicknellii
Geranium maculatum
Geum rivale
Goodyera repens
Goodyera tessellata
Habenaria hyperborea
Habenaria orbiculata
Habenaria psycodes
Habenaria viridis
Halenia deflexa
Helianthus strumosus
Hepatica acutiloba
Hepatica americanum
Hieracium aurantiacum
Hieracium canadense
Hieracium scabrum
Impatiens capensis
Iris lacustris
Isopyrum biternatum
Lathyrus ochroleucus
Linnaea borealis
Lobelia inflata
Lycopodium annotinum
Lycopodium clavatum
Lycopodium clavatum var. megastachyon
Lycopodium complanatum
Lycopodium inundatum

Lycopodium lucidulum
Lycopodium obscurum
Lycopodium obscurum var. dendroideum
Lycopodium selago
Lycopodium tristachyum
Lysimachia ciliata
Lysimachia quadrifolia
Lysimachia terrestris
Maianthemum canadense
Malaxis unifolia
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla
Mitella nuda
Moneses uniflora
Monotropa hypopithys
Monotropa uniflorum
Onoclea sensibilis
Orchis spectabilis
Osmorhiza claytoni
Osmorhiza longistylis
Osmunda cinnamomea
Osmunda claytoniana
Oxalis montana
Oxalis stricta
Panax quinquefolius
Panax trifolius
Petasites palmatus
Phlox divaricata
Poa compressa
Poa pratensis
Polygala paucifolia
Polygonatum biflorum
Polygonatum pubescens
Polymnia canadensis
Polypodium virginianum
Potentilla norvegica
Potentilla simplex
Potentilla tridentata
Prenanthes alba
Primula mistassinaca
Prunella vulgaris
Pteridium aquilinum
Pyrola asarifolia
Pyrola elliptica
Pyrola minor
Pyrola rotundifolia
Pyrola secunda
Pyrola virens
Ranunculus abortivus

Ranunculus acris
Ranunculus pensylvanicus
Ranunculus recurvatus
Ranunculus repens
Ranunculus septentrionalis
Rhus radicans
Rubus pubescens
Sanguinaria canadensis
Sanicula marilandica
Satureja vulgaris
Schizachne purpurascens
Scutellaria epilobiifolia
Scutellaria lateriflora
Smilacina racemosa
Smilacina stellata
Smilacina trifolia
Smilax herbacea
Solidago canadensis
Solidago flexicaulis
Solidago graminifolia
Solidago ulmifolia
Stellaria calycantha
Streptopus amplexifolius
Streptopus roseus
Taraxacum officinale
Thalictrum dioicum
Thalictrum polygamum
Tiarella cordifolia
Trientalis borealis
Trillium cernuum
Trillium erectum
Trillium grandiflorum
Trillium undulatum
Uvularia grandiflora
Uvularia sessilifolia
Vicia americana
Viola adunca
Viola blanda
Viola canadensis
Viola conspersa
Viola cucullata
Viola incognita
Viola nephrophylla
Viola pallens
Viola papilionacea
Viola pubescens
Viola renifolia
Viola selkirkii
Viola sororia
Waldsteinia fragarioides

Additional species

Mosses
Lichens
Geum canadense
Infolium pratense
Oryzopsis asperifolia
Carex pedunculata
Solidago hispida
Glyceria striata
Goodyera obtusifolia



FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 33(1)

TREE SEEDLINGS

087431 *Abies balsamea*
Acer pensylvanicum
 3 *Acer rubrum*
Acer saccharum
 53 *Acer spicatum*
Betula lutea
Betula papyrifera

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

Pinus strobus
 643 *Populus tremuloides*
Prunus pensylvanica
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis

SHRUBS

Alnus rugosa
 0 *Arctostaphylos uva-ursi*
Comptonia peregrina
Corylus americana
Corylus cornuta
 09 *Diervilla lonicera*
Dirca palustris
Ilex verticillata
Ledum groenlandicum
Lonicera canadensis

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

0986 *Rubus parviflorus*
Sambucus pubens
Shepherdia canadensis
Spiraea alba
Symphoricarpos occidentalis
Taxus canadensis
Vaccinium angustifolium
Vaccinium myrtilloides
Viburnum acerifolium
Viburnum trilobum

HERBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
Anemone quinquefolia
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
Aquilegia canadensis
 0 *Aralia nudicaulis*
Arisaema atrorubens
 8765321 *Aster macrophyllus*
Athyrium filix-femina
Botrychium virginianum
Carex pensylvanica
 087 *Chimaphila umbellata*
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
Clintonia borealis
Coptis groenlandicum
Corallorhiza maculata
 873 *Cornus canadensis*
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
Fragaria virginiana
Galium aparine
Galium triflorum
Gaultheria hispidula
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
 87621 *Linnaea borealis*
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
 865 *Maianthemum canadense*
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

3 *Mitella nuda*
Monotropa uniflora
 2 *Osmorhiza claytoni*
Oxalis montana
Oxalis stricta
 9 *Polygala paucifolia*
Polygonatum pubescens
Prenanthes alba
 09861 *Pteridium aquilinum*
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
Streptopus roseus
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides

Additional species

Mosses 12345670
Lichens 12340
Goodyera 067.1
Saxifraga 067.1

Carex ped. 0

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 33 (2)

TREE SEEDLINGS

09534 Abies balsamea
Acer pensylvanicum
5 Acer rubrum
Acer saccharum
65 Acer spicatum
Betula lutea
Betula papyrifera

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

Pinus strobus
4 Populus tremuloides
Prunus pensylvanica
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
Corylus cornuta
Diervilla lonicera
Dirca palustris
Ilex verticillata
Ledum groenlandicum
06 Lonicera canadensis

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

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

HERBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
Anemone quinquefolia
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
98 Arisaema atrorubens
7654321 Aster macrophyllus
Athyrium filix-femina
Botrychium virginianum
Carex pensylvanica
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
Clintonia borealis
Coptis groenlandicum
Corallorhiza maculata
Cornus canadensis
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
Fragaria virginiana
Galium aparine
Galium triflorum
Gaultheria hispida
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
87 Linnaea borealis
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
Maianthemum canadense
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

6 Mitella nuda
Monotropa uniflora
86 Osmorhiza claytoni
Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
Prenanthes alba
98421 Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
Streptopus roseus
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides

Additional species

Mosses 1347890
Lichens 1450
Smooth Aste 2-man
Goodyera obt 7

Viola conspersa 9