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Site 6027 (Boreal Stand 27): Presq'uile, Gogebic County, Michigan, Township 48N, Range 45W, Section 22. 1955-08-10

[s.l.]: [s.n.], 1955-08-10

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STAND RECORD

FORESTS

Stand No. 27

Name: Presq' mile
 County: Bogelre - N. Michigan
 Date: August 10, 1955
 Size of Stand: 40 acres
 Forest Type: Spruce-fir-aspen
 Topography: gently rolling

Observers: PFM

Locality:

T: 48N

R: 45W

Sec: SW of SW 22

25 yd intervals

Size of Area Sampled:

Soil Type:

Slope:

Directions

Slight slope to the east.

Condition of Stand:

Young stand - about 40 yrs old - one w/s tired - 40 yrs.
 Fairly homogeneous but stocking varies from place to place
 Good spruce - balsam regen.
 Small open spaces.

Aspen entered after spruce - balsam + maples 10-20 yrs after.

Some boulder outcrop - red stone + perhaps some limestone

Stand was burned - charcoal in A₁

Open Grown Trees:

Stand reported by Lloyd Leppanen - Bogelre County Forester.

% 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.)

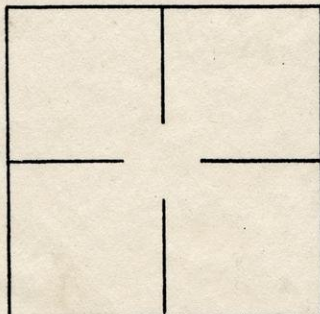
A ₀	#1 1/2" - litter	#2 1/2" - litter	#3 1/2" - litter
A ₁	2" - reddish brown	1 1/2" - red brown	2" - red brown
A ₂	- lacking	- lacking	- lacking
B	3" - red-brown clay loam	4" - red-brown clay	3" - same as 1+2

Parent Material:

light clay with small
 pebbles - thin boulders

loam - small stones

Map:



LICHENS OF GREAT LAKES SPRUCE-FIR COMMUNITIES
NORTHERN MICHIGAN

Gogebic County



3 miles N. of Presquile - T48N R45W SEC 22.
White spruce, balsam & aspen. Approx. 40 yrs.
Gently rolling, slight slope eastward, shallow
soil over boulders. Few small open areas,
previously burned.

August 10, 1955. Coll. Paul F. Maycock

Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

TOTAL DFD FOR CONIFERS. - 262.0

Spruce-fir
Northern Pine-Hardwoods

Station Number: 27 - 1726

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										
Abies bals	28	39				2428	17	10.6		70.0	32.5	24.4	25.3	82.2	575.4
Acer rubru							6	3.8							1.0
A. sacchar							35	21.9							1.0
Amelanchier A. spicata							2	1.3							
Betula lut															
B. papyrif							1	0.6							1.0
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau	40	99				6460	27	16.9		100.0	46.5	61.9	67.3	175.7	1054.2
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid							1	0.6							1.0
P. tremulo	16	20				668	45	28.1		40.0	18.6	12.5	7.0	38.1	76.2
Prunus serot. pen							15	9.4							
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi	1	1				26	3	1.9		2.5	1.2	0.6	0.3	2.1	14.7
Ulmus amer							2	1.3							
U. fulva															
Larix lar	1	1				22				2.5	1.2	0.6	0.2	2.0	2.0
Prunus virg							2	1.3							
Prunus pen							2	1.3							
Crataegus							1	0.6							
Salix							1	0.6							
TOTALS		160				9604	160	100.0		215.0	100.0	100.0	100.0	300.0	1726

AVE. DIST. BTW'N TREES:

10.8

AVE. B. A.:

60.0

TREES/ACRE:

374

DOM./ACRE:

22,440

N. Limit
Index

657.0

1.0

1.0

1.0

1757.0

1.0

342.9

14.7

20.0

2796.2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 27 (1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Abies balsam</i>	9 1/2 36			9 48 7 1/2 46	15 120	10 74 16 84				18 26
<i>Acer rubrum</i>				26 32						
<i>A. sacchar.</i>										
<i>A. spicatum</i>										
<i>Betula lut.</i>										
<i>B. papyrif</i>										
<i>Carpinus car</i>										
<i>Fagus gran</i>										
<i>Ostrya virg</i>			6 38					12 72		
<i>Picea glau</i>	17 130 16 119	22 108 24 143	3 67 6 78	11 121 10 1/2 52	8 90 10 1/2 52	9 151 18 62	9 76 15 85	7 110 15 85	10 136 20 48	14 75 20 48
<i>Pinus Bank</i>			10 60							
<i>P. resinosa</i>										
<i>P. Strobus</i>										
<i>Populus bals</i>										
<i>P. grand</i>										
<i>P. trem</i>		6 14 4 15			7 105	8 26	21 18 9 14	6 17	2 1/2 20 3 16 1 15	8 1/2 15
<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>Larix laricina</i>	1 1/2 22									
<i>Litter</i>	1/2	1/2	1	1/2	1/2	1/2	1/4	1/2	0	1/4
<i>Canopy</i>	5	10	80	1	12 1/2	40	5	15	35	1
<i>Distance</i>	44	56	26	54	41	45 1/2	55 1/2	40	16 1/2	60 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 27 (2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	8 1/2 73 11 85	14 64		20 80			4 1/2 36 17 105	25 56	6 51 14 1/2 32	8 1/2 36
Acer rubrum							7 86			
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg		13 1/2 41	19 78		19 39	11 29		17 27		
Picea glau	9 162 19 80	125 151 8 1/2 66	16 105 9 1/2 65	17 1/2 81 10 155	123 102 23 86	13 18 14 32	10 1/2 39	13 75 23 42	15 25 15 68	7 1/2 44 12 55
Pinus Bank						11 96				
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem			19 17	5 24	17 52					20 22
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Litter	1/2	1/2	1/2	1 1/4	1 1/4	3/4	1/2	3/4	3/4	1/2
Canopy	55	0	3	5	0	1	2	0	1	20
Distance	47 1/2	61	63 1/2	52 1/2	82	49	39	68	50 1/2	48

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 27 (3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Abies balsam</i>	6' 52 9 1/2 105	14 120	17 108 20 121	6' 45		7 48 9 1/2 26	8 1/2 39		4' 42 12 1/2 55	
<i>Acer rubrum</i>										
<i>A. sacchar.</i>										
<i>A. spicatum</i>										
<i>Betula lut.</i>										
<i>B. papyrif</i>										
<i>Carpinus car</i>										
<i>Fagus gran</i>										
<i>Ostrya virg</i>										
<i>Picea glau</i>	3 42 3 1/2 51	10 43 14 40	11 38 19 106	6' 38 5	7' 34 15 1/2 38	3 1/2 25 4 1/2 64	13' 29 42 1/2 42	7 1/2 21 4 1/2 32	5 1/2 36 2 1/2 31	20 45 17 1/2 69 8' 36
<i>Pinus Bank</i>								12 29		
<i>P. resinosa</i>										
<i>P. Strobus</i>										
<i>Populus bals</i>										
<i>P. grand</i>										
<i>P. trem</i>		14 1/2 27		11 22	12' 27				11 1/2 32	
<i>Prunus pen.</i>										
<i>Quercus ell</i>										
<i>Q. rubra</i>										
<i>Tilia amer</i>										
<i>Tsuga can</i>										
<i>Thuja occ</i>				8' 26						
<i>Ulmus amer</i>										
<i>U. fulva</i>										
<i>Litter</i>	3 1/4	1/2	1/2	1"	1/2	1/2	1/2	1/2	1/2	1/4
<i>Canopy</i>	65	22	1	55	60	60	45	65	40	5
<i>Distance</i>	22	52 1/2	67 1/2	31	29 1/2	24 1/2	35 1/2	28	23 1/2	48

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 27 (4)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	12' 58	7 1/2 31		13 1/2 22	4' 46 9 1/2 82		12 1/2 40	7 1/2 28 16 92		8 1/2 101
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg	4' 21	2 1/2 57	7 32	17 66		13 1/2 120	6 34		4 29	10 1/2 84
Picea glau	7' 62	8 26	16 104	16 52	7' 42	16' 68	6 9 1/2 62	10 72	3 1/2 52	10 146
	10 1/2 55	4' 22	13 48	5 1/2 34	4' 52	12 42	8' 86	8 84	4 1/2 76	9 65
Pinus Bank			9 52			8 64				
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem									13 1/2 84	
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Litter	3 1/4"	1/2"	1"	1"	3 1/4"	1/2"	1/2"	1/2"	1/2"	1/2"
Canopy	55	60	5	35	70	10	30	1	75	55
Distance	33 1/2	22	45	42	24 1/2	49 1/2	36	41 1/2	25 1/2	38

Av. canopy - 28%

Av. litter - 0.6"

POINT RECORD TREES *Saplings*

NORTHERN PINE-HARDWOODS

Stand No. 27 (1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam										
Acer rubrum	3'			1 1/2'	9'					
A. sacchar.	9'		10 1/2'	6'	11' 5'	14'			1'	5'
A. spicatum										
Betula lut.										
B. papyrif						4'				
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau			11'							
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem	14 7	1' 3 1/2'	8 1/2' 12 1/2' 11 1/2'	10 1/2'	5 1/2'	17' 6'	8' 10 1/2' 6'	7 4' 7.	1' 4'	17 13 1/2' 2'
Prunus ^{stout} pen.		1 1/2'		6'				7 1/2'		
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
<i>Prunus virg</i>								3'		
Distance	33	14 1/2'	45 1/2'	24	30 1/2'	41	31 1/2'	21 1/2'	12	37 1/2'

POINT RECORD TREES *Saplings*

NORTHERN PINE-HARDWOODS

Stand No. 27(2) 3

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	20									4 1/2 13
Acer rubrum		2'	4'							
A. sacchar.	4' 18	5 19				3' 8-9'	4' 6'	12 1/2 9	14'	
A. spicatum										
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau				7			7' 3'		10'	
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem			23' 12 1/2 13 1/2	8 1/2 6 1/2	9 1/2 14				7 1/2 8 1/2	2' 14 1/2
Prunus pen. <i>spot</i>		7'			11"	10"				4 1/2
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
<i>Crataegus</i>		7'								
<i>Salix</i>				3'				5' <i>Prunus pen.</i>		
<i>Amelanchier</i>					2 1/2					
Distance	61	21	61 1/2	25	39	30	20	40 1/2	40 1/2	24

POINT RECORD TREES *Saplings*

NORTHERN PINE-HARDWOODS

Stand No. 27 (3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	8'		10'		3 1/2			15 9 1/2	8 11 1/2	18 24
Acer rubrum				4'						
A. sacchar.	1'	5 1/2	3'	7'			3 2			6 1/2 5
A. spicatum										
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau				9'	7 1/2 8	6 1/2 8 1/2	4 1/2 4	8' 8'	11 1/2	
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand			12'							
P. trem	8' 7'	6' 12 1/2	11							
Prunus pen. <i>shot</i>			9'	8'						
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ						8 1/2				
Ulmus amer										
U. fulva										
Distance	24	35	34	28	29	27 1/2	12 1/2	40 1/2	42	53 1/2

POINT RECORD TREES *Saplings* NORTHERN PINE-HARDWOODS

Stand No. 27 (4)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	9 1/2			12			9			9 1/2
Acer rubrum										
A. sacchar.			3'- 4'-	2		10'	3'	7 1/2	3'	
A. spicatum										
Betula lut.										
B. papyrif										
<i>Amelanchier</i> Carpinus car									2	
Fagus gran										
Ostrya virg										
Picea glau	8 1/2	11 1/2 4	5	11 1/2	9 1/2	10 9 1/2	9	5		8'
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem						2' 10	12' 16		19'	12' 16'
Prunus pen <i>scot</i>	7'			17 1/2	10 1/2			8	17'	
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ	5 1/2	15 1/2								
Ulmus amer										
U. fulva										
<i>Cork Elm</i>				9 1/2					4'	
<i>Prunus virg</i>					9 1/2					
<i>Prunus pen</i>								16		
Distance	30 1/2	26	20 1/2	48 1/2	39 1/2	31	40	36 1/2	42	45 1/2

[illegible]

[illegible]

University of Wisconsin
STAND NO. 27

	P.									10								20		
Desmodium glutinosum																				
Dicentra canadensis																				
Dicentra cucullaria																				
Diervilla lonicera	✓				✓														1	5
Dirca palustris	✓																			1
Dryopteris boottii																				
Dryopteris cristata																				
Dryopteris disjuncta	✓																			1
Dryopteris goldiana																				
Dryopteris marginalis																				
Dryopteris noveboracensis																				
Dryopteris phegopteris																				
Dryopteris spinulosa	✓										✓								1	5
Empetrum nigrum																				
Epifagus virginiana																				
Epigaea repens																				
Epilobium angustifolium	✓																			1
Epilobium glandulosum																				
Epilobium strictum																				
Equisetum arvense																				
Equisetum pratense																				
Equisetum scirpoides																				
Equisetum sylvaticum																				
Erigeron annuus	✓																			1
Erigeron philadelphicus																				
Erigeron strigosus																				
Erythronium albidum																				
Erythronium americanum																				
Eupatorium maculatum																				
Eupatorium perfoliatum																				
Eupatorium purpureum																				
Fagopyrum sagittatum																				
Festuca obtusa																				
Fragaria vesca	✓	✓			✓		✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	12	60
Fragaria virginiana	✓																			
Galium aparine																				
Galium asprellum																				
Galium boreale																				
Galium concinnum																				
Galium lanceolatum																				
Galium triflorum	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Gaultheria hispidula																			17	85
Gaultheria procumbens																				
Gaylussacia baccata																				
Gentiana andrewsii																				
Gentiana crinata																				
Gentiana linearis																				
Gentiana quinquefolia																				
Geocaulon lividum																				
Geranium bicknelli																				
Geranium maculatum																				
Geranium robertianum																				

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 27

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 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 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 27

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 uniflorus
 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

Carex pedunculata
 Trifolium pratense
 Trifolium repens
 Carex sp. Schreber
 Moss
 Lichens
 Grass spp.
 Aster lateriflorus
 Solidago lepida
 Phleum pratense
 Brachyotum erect.

Celastrum scandens
 Cirsium arvensis
 Geum sp. allepico
 Ranunculus recurvatus
 Polytrichum sp.
 Aster ciliolatus
 Smooth aster is Aster macrophyllus
 Oryzopsis asperifolia var. pergonifolia
 Lactuca can.

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 27 (1)

TREE SEEDLINGS

78

654321 Abies balsamea
Acer pensylvanicum
Acer rubrum
Acer saccharum
Acer spicatum
Betula lutea
1 Betula papyrifera
5 Amelanchier

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

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

Prunus nigra 123456780
Alnus incana 2

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
Corylus cornuta
4 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

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

9 Ribes triste

HERBS

Actaea pachypoda
62 Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
4 Anemone cylindrica
Anemone quinquefolia
Anemone virginiana
Antennaria spp.
082 Apocynum androsaemifolium
Aquilegia canadensis
96531 Aralia nudicaulis
Arisaema atrorubens
981631 Aster macrophyllus
Athyrium filix-femina
432 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
0987641 Fragaria vesca
Fragaria virginiana
Galium aparine
09865432 Galium triflorum
Gaultheria hispidula
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
6 Hepatica americana
87431 Hieracium aurantiacum
Linnaea borealis
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
7 Maianthemum canadense
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

6 Mitella nuda
Monotropa uniflora
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
Prenanthes alba
098731 Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
8631 Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
Streptopus roseus
Tiarella cordifolia
3 Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
6 Viola pubescens
Viola renifolia
0 Waldsteinia fragarioides

Additional species

Smooth Aster 136789
Aster umbellata 1
Grass sp. 1235608
Carex pedunculata 134589
Moss 123456789
Lichens 1359
Tarax. off. 12468
Pyrola asarifolia 2
Viola conspersa 24

Solidago sp. 347890
Onoclea sp. 30
Vallisneria spiralis 3, 6 - monocot
Impatiens repens 47

White Aster 46 - Aster latifolius
Fuchsia car. 468
Brachyglottis 5
Basil 560
Viola - heart shape 6

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 27 (2)

TREE SEEDLINGS

80
765431 Abies balsamea
Acer pensylvanicum
24 Acer rubrum
8542 Acer saccharum
Acer spicatum
Betula lutea
3 Betula papyrifera
72 Amelanchier

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

Pinus strobus
0 Populus tremuloides
Prunus pensylvanica
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis
Prunus v. 2345670

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
0731 Corylus cornuta
Diervilla lonicera
Dirca palustris
Ilex verticillata
Ledum groenlandicum
Lonicera canadensis
97 Cornus alternifolia

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

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

HERBS

Actaea pachypoda
9 Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
Anemone quinquefolia
Anemone virginiana
Antennaria spp.
7 Apocynum androsaemifolium
Aquilegia canadensis
8543 Aralia nudicaulis
Arisaema atrorubens
81 Aster macrophyllus
Athyrium filix-femina
21 Botrychium virginianum
85421 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

3 Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
98752 Fragaria vesca
Fragaria virginiana
Galium aparine
098765431 Galium triflorum
Gaultheria hispidula
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
Linnaea borealis
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
0 Maianthemum canadense
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

8 Mitella nuda
Monotropa uniflora
753 Osmorhiza claytoni
Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
Prenanthes alba
0987621 Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
2 Pyrola secunda
Ranunculus acris
Rhus radicans
9763 Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
Streptopus roseus
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
5 Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
0 Viola renifolia
841 Waldsteinia fragarioides

Additional species

Small white - late in flowers
Lupinus 1235890
Viola conspersa 159
Hieracium alabrum 178
Moss 134567890
White Aster 244
Onyxis 2590
Ligularia 2
Basil 24568
Zaradacum 2367

Viola heart 2678
Carex pedunc 389
Petasites 3
Ribes 3 cynosbati
Brachyotum 248

Lichens 5780
Scleroglyph 5679 - b. pida
Viola 1