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Site 6026 (Boreal Stand 26): Poplar River, Cook County, Minnesota, Township 60N, Range 3W, Section 16. 1955-07-28

[s.l.]: [s.n.], 1955-07-28

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[Site 6026]

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 26

25 ft intervals

Name: Poplar River

County: Cook Co, Minn

Date: July 28, 1955

Size of Stand: 75 acres

Forest Type: spruce-fir-Maple

Topography:

mountainous - are the nodes high!!?

Locality:

T: 60N

R: 3W

Sec: 16

Observers:

PFM

Size of Area Sampled:

Soil Type:

Slope:

Directions

medium slope to the East.

Condition of Stand:

Overmature - huge spruce, balsam birch. so old they are just falling over. Completely virgin.

North East facing slope - steep slope

very little w.s. or Ab reproduction but some was seen while cruising

On talus - boulder around a large outcrop near Lutson - NE.

Stand reported by Earl Hanson - Asst Forest Ranger - Jofte.

Open Grown Trees:

% Canopy:

Stumps:

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

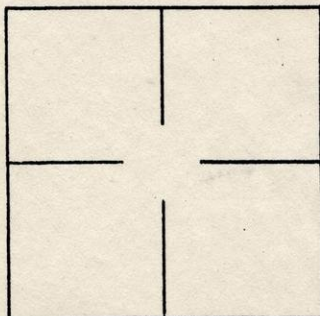
Soil Data:

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

DEPTH		CHARACTERISTICS (Color, Texture, Structure, etc.)			
#	2" litter	#2	2 1/2" litter	#3	2" litter
A0	8" 6 ferment	6" - 3 1/2 ferment		5 1/2 - 3 1/2 ferment	
A1	7	2" - black		1 1/2 - black	
A2	2	- lacking		- lacking	
B	then red granular sand	4" brown-black sandy		2" - brown-black sandy	
		loam then boulder		then boulder	
Parent Material:					

Parent Material:

Map:



LICHENS OF GREAT LAKES SPRUCE-FIR COMMUNITIES
MINNESOTA

Cook County



25 miles N. of Lutson on Poplar River.

T60N R3W SEC 16.

Balsam, maple, w.spruce & w.birch.

Mountainous, medium slope to E. and N.

Virgin stand over 150 yrs. On Talnus.

Boulder.

July 28, 1955. Coll. Paul F. Maycock

Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

198.7

spruce-fir
Northern Pine-Hardwoods

Station Number: 26 - 2089

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										
Abies bals	38	81				8104	5	3.1		95.0	38.8	50.6	37.1	126.5	878.5
Acer rubru							1	0.6							1.0
A. sacchar	24	31				2534	123	76.9		60.0	24.5	19.4	11.6	55.5	555.0
A. spicatu							28	17.5							1.0
Betula lut															
B. papyrif	12	16				3828				30.0	12.3	10.0	17.5	39.8	199.0
Carpinus c															
Frax. nig. Fagus gran							1	0.6							
Ostrya vir															
Picea glau	20	28				6980				50.0	20.4	17.5	32.0	69.9	419.4
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba	1	1				200				2.5	1.0	0.6	0.9	2.6	5.2
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi	1	1				142				2.5	1.0	0.6	0.7	2.3	16.1
Ulmus amer															
U. fulva															
Prunus virg							1	0.6							
Pyrus amer.	2	2				34				5.0	2.0	1.3	0.1	3.4	13.6
Alnus rugosa							1	0.6							
TOTALS		160				21822	160	100.0		245.0	100.0	100.0	100.0	300.0	2089.

AVE. DIST. BTW'N TREES:

13.3

AVE B. A.:

136.4

TREES/ACRE:

246

DOM./ACRE:

33,554

Midrange
Index

1138.5

222.0

398.0

699.0

23.4

18.4

30.6

2530

1012.0

1.0

277.5

1.0

358.2

699.0

23.4

16.1

20.4

2408.6

Plant Ecology Research
TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

Tree Record

Station Number: 26 (1)

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM. 3	# SAP 4	D. % SAP 5	F. % SDL 6	F. % TRS 7	% SUM F. TR. 8	D. % TRS 9	DOM% TRS 10	DFD INDEX	C. I.
			-80	-320	321										
Abies bals			14 44 33 146	10 1/2 60	7 1/2 170	7 1/2 120	4 1/2 62	10 1/2 135	11 1/2 142	11 1/2 134	4 1/2 112	9 1/2 172			
Acer rubru								15 75	28 704	19 120	21 64	12 166			
A. sacchar			14 24	41 120	8 1/2 31	3 29	7 1/2 28	16 41				15 38	19 360		
A. spicatu													19 56		
Betula lut															
B. papyrif				24 510 13 900		8 1/2 220									
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau			8 1/2 720		7 1/2 415	17 151			4 1/2 155	2 1/2 372					
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba						7 200									
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Populus amer.										13-17					
Litter			6"	2"	8"	5"	5"	3"	2"	3 1/2	3	5 1/2			
Canopy			70	10	85	80	75	70	60	55	50	90			
Distance			69 1/2	88 1/2	40	26	46 1/2	46	46 1/2	47 1/2	61 1/2	42 1/2			

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

Plant Ecology Research
TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

Tree Record

Station Number: 26 (2)

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			9 1/2 74	7 1/2 166	9 1/2 140	8 1/2 101	5 1/2 46	4 1/2 12	18 210	24 62	4 1/2 72	2 1/2 145			
Acer rubru			3 52	14 180	22 186	15 220			13 62	21 158	14 125	7 1/2 96	20 701		
A. sacchar				17 45	10 24	14 120	8 1/2 117		8 1/2 68		17 35				
A. spicatu							25 68		14 1/2 42						
Betula lut															
B. papyrif			15 66								17 265	28 36			
Carpinus c			11 283									17 42			
Fagus gran															
Ostrya vir															
Picea glau						26 191	7 251	12 110	17 166		5 277				
Pinus Bank								15 360							
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Litter			3"	1 1/2	2 1/2	6"	6"	5"	3"	4"	3 1/2	4"			
Canopy			60	65	0	70	40	80	15	65	35	30			
Distance			38 1/2	48	71 1/2	48 1/2	47	44	64 1/2	63	56	47 1/2			

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

Plant Ecology Research
TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

Tree Record

Station Number: 26 (3)

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM. 3	# SAP 4	D. % SAP 5	F. % SDL 6	F. % TRS 7	% SUM F. TR. 8	D. % TRS. 9	DOM% TRS. 10	DFD INDEX	C. I.
			-80	-320	321										
Abies bals			24 105	15 95	14 58	12 185	31 35	12 48	7 202			18 105	10 152		
Acer rubru				16 120	11 105	2 49	2 182	11 35	17 35			16 58	10 97		
A. sacchar										7 62	6 93	22 174	6 47	10 72	
A. spicatu															
Betula lut															
B. papyrif			21 134			11 106	15 220	24 230	32 240		9 250				
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau			11 146	15 201		38 125			7 301	14 215		23 85			
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi							21 142								
Ulmus amer															
U. fulva															
Pyrus am.				8 17											
Litter			4"	4"	4 1/2	5"	5 1/2	6"	4 1/2	7"	6 1/2	7			
Canopy			10	5	40	10	50	45	15	85	60	50			
Distance			70	54	45 1/2	72 1/2	69	79 1/2	38 1/2	52 1/2	62	35			

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

Northern Pine-Hardwoods

Tree Record

Station Number: 26(4)

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			9 1/2 25	3 30		12 1/2 104	8 42	4 52	15 76	35 108	7 1/2 110	13 86	7 49		
Acer rubru						1 1/2 40		25 122	12 140		18 65	8 120	6 82		
A. sacchar			9 1/2 115	10 125		7 45	9 35	16 156		16 121			13 105		
A. spicatu										12 98					
Betula lut										18 41					
B. papyrif								10 1/2 169				21 157			
Carpinus c															
Fagus gran															
Ostrya vir						11 1/2 361									
Picea glau			13 68	12 1/2 75		11 1/2 220			11 260		10 465		8 360		
Pinus Bank						19 185	25 210				18 370				
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Litter			5"	6"	4 1/2	5	7"	5"	5	6"	5	5			
Canopy			75	45	80	85	60	55	15	65	70	50			
Distance			35	57 1/2	26	53 1/2	55 1/2	59	81	53 1/2	45	34			

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

Av. Canopy. 52%

Av. Litter 4.7"

Northern Pine-Hardwoods

Sampling Record

Station Number: 26 (1)

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															
Acer rubru												1			
A. sacchar			3'-18"	4'-1"		3'-4"	15 1/2	1'	3' 5"	12 1/2	3 1/2	3'-2"	2 9	7 1/2	3 1/2 2 1/2
A. spicatu			11'	6'	6 1/2							3	6		
Betula lut															
B. papyrif															
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Distance			40	17 1/2	12	31	16 1/2	41	9	19	17 1/2	16			

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

Sapling Record.

Station Number: 26(2)

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									7'						
Acer rubru															
A. sacchar			4'-6'	7'-8'	8'		1'-6'	1'-7'	3'	1'-7'	3'-7'	6'	3'		
A. spicatu			9'	3 1/2	4 3/5		5'		3'		10'-12'	4'	17'		
Betula lut															
B. papyrif															
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen													4'		
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Distance			25	21 1/2	20	18	20	17	13	32	19 1/2	31			

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

Northern Pine-Hardwoods

Station Number: 26(3)

Sapling Record

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						4-11									
Acer rubru															
A. sacchar					4-		3 1/2 4	1 3	3 5	1 2	3 8	3 9	7 10		
A. spicatu				5 7	2 4	4 1/2 12	1-				1 1/2	12			
Betula lut															
B. papyrif															
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Alnus rug				3-											
Frax nig					6-										
Distance				20	16	31 1/2	13	8 1/2	12	9 1/2	18 1/2	29 1/2	31		

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

Northern Pine-Hardwoods

Sapling Record

Station Number: 26 (4)

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				12									6		
Acer rubru															
A. sacchar			7 3 13	1 4 2 3	6 5 3 4	1 6 1 7	5 4 3 1	3 2 3 1 1/2	3 1 4 5	7 12 6 10	9 2 6 7	2 9 5 9			
A. spicatu															
Betula lut															
B. papyrif															
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Distance			35	10	18	14 1/2	13	9 1/2	13	35	24	22			

AVE. DIST. BTW'N TREES:

AVE B. A.:

TREES/ACRE:

DOM./ACRE:

University of Wisconsin
STAND NO. 26

[illegible]

										10										20		
Carex disperma																						
Carex eburnea																						
Carex intumescens	✓									✓	✓										2	10
Carex leptalea																						
Carex pedunculata	✓			✓		✓		✓	✓	✓			✓				✓		✓		8	40
Carex pensylvanica	✓																					1
Carex projecta																						
Carex woodii																						
Carex spp.	✓																					1
Caulophyllum thalictroides																						
Celastrus scandens																						
Chamaedaphne calyculata																						
Chimaphila umbellata																						
Chrysanthemum leucanthemum																						
Chrysosplenium americanum																						
Cicuta maculata																						
Cinna latifolia																						
Circaea alpina	✓	✓			✓	✓	✓			✓	✓			✓							7	35
Cirsium altissimum																						
Cirsium arvense																						
Cirsium vulgare																						
Claytonia caroliniana																						
Claytonia virginica																						
Clematis virginiana																						
Clematis verticillaris																						
Clintonia borealis	✓				✓	✓			✓	✓	✓	✓	✓	✓		✓		✓			10	50
Comandra richardsiana																						
Comandra umbellata																						
Comptonia peregrina																						
Convolvulus spithameus																						
Coptis groenlandicum																						
Corallorhiza maculata	✓																					1
Corallorhiza striata																						
Corallorhiza trifida																						
Cornus alternifolia	✓									✓	✓										2	10
Cornus canadensis	✓									✓		✓									2	10
Cornus racemosa																						
Cornus rugosa																						
Cornus stolonifera																						
Corydalis sempervirens																						
Corylus americana																						
Corylus comuta	✓	✓							✓												2	10
Cryptotaenia canadensis																						
Cynoglossum boreale																						
Cynoglossum officinale																						
Cypripedium acaule																						
Cypripedium arietinum																						
Cypripedium calceolus																						
Cypripedium reginae																						
Cystopteris bulbifera																						
Cystopteris fragilis																						
Dalibarda repens																						

[illegible]

University of Wisconsin
STAND NO. 26

[illegible]

[illegible]

[illegible]

										10								20	
Rubus (dewberry)																			
Rubus (raspberry)																			
Rumex acetosella																			
Salix spp.																			
Sambucus canadensis																			
Sambucus pubens	✓																		/
Sanguinaria canadensis																			
Sanicula gregaria																			
Sanicula marilandica																			
Satureja vulgaris																			
Saxifraga pensylvanica																			
Schizachne purpurascens																			
Scutellaria epilobiifolia																			
Scutellaria lateriflora																			
Senecio aureus																			
Shepherdia canadensis																			
Sium suave																			
Smilacina racemosa																			
Smilacina stellata																			
Smilacina trifolia																			
Smilax herbacea																			
Smilax tamnoides var hispida																			
Spiranthes gracilis																			
Spiranthes romanzoffiana																			
Solidago canadensis																			
Solidago flexicaulis																			
Solidago gigantea																			
Solidago graminifolia																			
Solidago hispida																			
Solidago juncea																			
Solidago lepida																			
Solidago macrophylla																			
Solidago rugosa																			
Solidago ulmifolia																			
Spiraea alba																			
Spiraea latifolia																			
Stachys palustris																			
Stellaria calycantha																			
Stellaria longifolia																			
Stellaria palustris																			
Streptopus amplexifolius																			
Streptopus roseus	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓		✓	✓	✓	11	55
Symphoricarpos albus																			
Symphoricarpos occidentalis																			
Taraxacum officinale																			
Taxus canadensis	✓																		/
Thalictrum dasycarpum																			
Thalictrum dioicum																			
Thalictrum polygamum																			
Tiarella cordifolia																			
Trientalis borealis	✓				✓			✓		✓		✓		✓	✓			5	25
Trifolium hybridum																			

	10										20									
Trifolium pratense																				
Trifolium repens																				
Trillium cernuum	✓																			1
Trillium erectum																				
Trillium grandiflorum																				
Trillium undulatum																				
Uvularia grandiflora																				
Uvularia sessilifolia	✓										✓								1	5
Vaccinium angustifolium																				
Vaccinium cespitosum																				
Vaccinium corymbosum																				
Vaccinium myrtilloides																				
Vaccinium ovalifolium																				
Vaccinium uliginosum																				
Vaccinium vitis-idaea																				
Veronica officinalis																				
Veronica scutellata																				
Veronica serpyllifolia																				
Viburnum acerifolium																				
Viburnum alnifolium																				
Viburnum cassinoides																				
Viburnum edule																				
Viburnum lentago																				
Viburnum rafinesquianum																				
Viburnum trilobum																				
Vicia americana																				
Viola adunca																				
Viola blanda																				
Viola canadensis																				
Viola conspersa																				
Viola cucullata																				
Viola incognita	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	17 85
Viola nephrophylla																				
Viola pallens																				
Viola papilionacea																				
Viola pubescens	✓																			1
Viola renifolia	✓	✓		✓		✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	12 60
Viola selkirkii	✓						✓	✓	✓	✓							✓			✓
Viola sororia																				
Vitis riparia																				
Waldsteinia fragarioides																				
Woodsia ilvensis																				
Xanthoxylum americanum																				
Tree Seedlings																				
Abies balsamea	✓					✓			✓		✓	✓			✓	✓				6 30
Acer pensylvanicum																				
Acer rubrum																				
Acer saccharum	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	16 80
Acer spicatum	✓		✓			✓			✓		✓			✓						5 25

[illegible]

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 26

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 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 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 26

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

Brachyelytrum erectum
 Broomrape?
 Lichens
 Mosses
 Lactuca sp.
 Oryzopsis asperifolia

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 26 (1)

TREE SEEDLINGS

- 07 Abies balsamea
Acer pensylvanicum
Acer rubrum
0964321 Acer saccharum
052 Acer spicatum
Betula lutea
0 Betula papyrifera

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

- Pinus strobus
Populus tremuloides
Prunus pensylvanica
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis
4 Pyrus amer.

SHRUBS

- Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
9v Corylus cornuta
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)
9 Rubus idaeus
1 Rubus strigosus

- 98765431 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
98764321 Aralia nudicaulis
Arisaema atrorubens
842 Aster macrophyllus
Athyrium filix-femina
Botrychium virginianum
98753 Carex pensylvanica pedunculata
Chimaphila umbellata
Chrysanthemum leucanthemum
6541 Circaea alpina
Claytonia caroliniana
Claytonia virginiana
9854 Clintonia borealis
Coptis groenlandicum
Corallorhiza maculata
Cornus canadensis
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
973 Dryopteris disjuncta
54 Dryopteris phegopteris

- 97531 Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
Fragaria virginiana
Galium aparine
08753 Galium triflorum
Gaultheria hispidula
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
Linnaea borealis
0 Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
97541 Lycopodium lucidulum
097 Lycopodium obscurum
09841 Maianthemum canadense
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

- 5 Mitella nuda
Monotropa uniflora
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
5 Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
95431 Streptopus roseus
Tiarella cordifolia
06 Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
098631 Viola renifolia
Waldsteinia fragarioides

Additional species

Vida sp 13456790 magenta grass 45
Morus 145680
Zichers 1470
Pauling long 13457
Brachyotum 45
Lactula 1

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 26 (2)

TREE SEEDLINGS

- 7632 *Abies balsamea*
Acer pensylvanicum
Acer rubrum
 98765432 *Acer saccharum* 0
 52 *Acer spicatum*
Betula lutea
 4 *Betula papyrifera*

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

- Pinus strobus*
Populus tremuloides
Prunus pensylvanica
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis
 6 *Pyrus amer*

SHRUBS

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

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

- 0965432 *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
 8763 *Aralia nudicaulis*
Arisaema atrorubens
 7437 *Aster macrophyllus*
Athyrium filix-femina
Botrychium virginianum
 9773 *Carex pensylvanica pedunculata*
Chimaphila umbellata
Chrysanthemum leucanthemum
 631 *Circaea alpina*
Claytonia caroliniana
Claytonia virginiana
 864321 *Clintonia borealis*
Coptis groenlandicum
Corallorhiza maculata
 31 *Cornus canadensis*
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
 5 *Dryopteris disjuncta*
 0324 *Dryopteris phegopteris*

- 061 *Dryopteris spinulosa*
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
Fragaria virginiana
 3 *Galium aparine*
 98762 *Galium triflorum*
Gaultheria hispidula
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
 6 *Linnaea borealis*
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
 6321 *Lycopodium lucidulum*
 98 *Lycopodium obscurum*
 875432 *Maianthemum canadense*
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

- 21 *Mitella nuda*
Monotropa uniflora
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
Polygala paucifolia
 4 *Polygonatum pubescens*
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
 3 *Rubus pubescens*
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
 987421 *Streptopus roseus*
Tiarella cordifolia
 874 *Trientalis borealis*
Trillium erectum
Trillium grandiflorum
 7 *Uvularia sessilifolia*
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
 987653 *Viola renifolia*
Waldsteinia fragarioides
Viola blanda

Additional species

Thymus 12467
Lichenes 1468
Erigeron 12
Carex 12

Viola sp. 123457890 - *incognita*
Sorbus 134
Brachyelytrum 6
Oxytropis 7