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Site 6017 (Boreal Stand 17): Sturgeon River, Koochiching County, Minnesota, Township 154N, Range 26W, Section 26; Township 154N, Range 26W, Section 27. 1955-07-20

[s.l.]: [s.n.], 1955-07-20

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[= Site 6017]

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 17

Name: *Sturgeon River*
 County: *Koshkuching Minn.*
 Date: *July 20, 1958*

Locality:

T: *154* R: *26*Sec's *26, 27**South halves.*

Observers:

PFM

Size of Area Sampled:

Size of Stand: *15 acres*

Forest Type:

Soil Type:

Topography: *Gently rolling*

Slope:

Directions

E facing sloping sharply to Sturgeon R.

Condition of Stand:

Very old stand 150-200 years - One Ws broad - about 110 yrs. old.
Very steep slope.

*Logged for pine + some large cedar**Bottom land in portion of ravine with Tilia - Frax nig. + Balsam.**Balsam, Spruce, Poplar + W. Birch with some Tilia on the hillside**Stand reported by Francis Moore - Grand Rapids + Ed Richards - Big Falls.*

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									

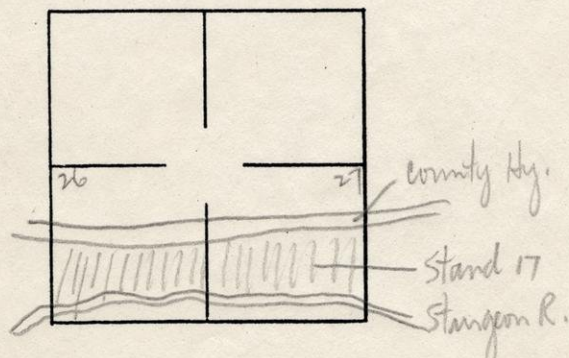
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

DEPTH	CHARACTERISTICS (Color, Texture, Structure, etc.)
A ₀ <i>1 1/2" - 1" litter</i>	<i>#2 1 1/2" - 1" litter</i>
A ₁ <i>trace</i>	<i>trace</i>
A ₂ <i>3" brown leached</i>	<i>3" brown leached</i>
B <i>12" brown-brassy sand</i>	<i>8" grey sand</i>

Parent Material:

Map:



LICHENS OF GREAT LAKES SPRUCE-FIR COMMUNITIES
MINNESOTA

Koochiching County



12 miles W. of Big Falls. T154N R26W SEC 27

Balsam, aspen, basswood, w.birch, w.spruce.

Gently rolling, east facing slope. Over 150 yrs.
on bank of Sturgeon River.

July 20, 1955. Coll. Paul F. Maycock

Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

177.4

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

✓ Station Number: 17 - 1834

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										
948.6 Abies bals	37	72				3387	72	45.0		92.5	32.4	45.0	28.0	105.4	738.8
Acer rubru															
1.7 A. negundo	1	1				14	1	0.6		2.5	0.9	0.6	0.2	1.7	6.8
9.0 A. spicatu							49	30.6							1.0
Betula lut															
337.0 B. papyrif	14	15				1457	10	6.3		35.0	12.3	9.4	12.0	33.7	168.5
Carpinus c															
Fagus gran															
Ostrya vir															
414.0 Picea glau	15	16				2206	2	1.3		37.5	13.2	10.0	18.2	41.4	248.4
Pinus Bank															
P. resinosa															
34.3 P. Strobus	2	2				248				5.0	1.7	1.2	2.0	4.9	24.5
Populus ba															
P. grandid															
292.0 P. tremulo	15	20				1310	1	0.6		37.5	13.2	12.5	10.8	36.5	73.0
Prunus virg							2	1.3							
Quercus el															
5.0 Q. rubra															1.0
140.4 Tilia amer	15	18				1295	7	4.4		37.5	13.2	11.2	10.7	35.1	280.8
Tsuga cana															
205.6 Thuja occi	7	8				1775				17.5	6.1	5.0	14.6	25.7	179.9
30.0 Ulmus amer	1	1				42				2.5	0.9	0.6	0.3	1.8	14.4
U. fulva	3	3				131	1	0.6		7.5	2.6	1.9	1.2	5.7	45.6
51.0 Frax. nig.	4	5				246	13	8.1		10.0	3.5	3.0	2.0	8.5	51.0
Amelanchier							1	0.6							
SP. LIKE APRICOT							1	0.6							
PRUNUS NIERA															
2469 TOTALS		160				12,111	160	100.0		285.0	100.0	100.0	100.0	300.0	1834

AVE. DIST. BTW'N TREES:

8.11

AVE. B. A.:

75.7 sq. in.

TREES/ACRE:

648

DOM./ACRE:

49.054

Mid range Index

843.2

8.5

1.0

303.3

414.0

29.4

328.5

1.0

175.5

179.9

52.5

59.5

2396.3

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 17(1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	6' 12 7 1/2 19	3 1/2 28	17' 85 10 1/2 74	5' 31 8' 25	7' 16 8 1/2 24	8 1/2 44 8' 33	13' 88 10 1/2 24	12' 78 9' 22	17' 54	
Acer rubrum						8' 36 5 1/2 16				
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif							9' 30 3' 110	5' 82	3' 78	
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau			9 1/2 288					5 1/2 160		4 1/2 78
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem				5 1/2 59						12' 62
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer	11 1/2 85	6 1/2 143 4' 41	3' 218						12 1/2 40	
Tsuga can										
Thuja occ				4' 350					11' 40	4 1/2 46
Ulmus amer										
U. fulva		16' 45								
Trax mgs	5' 45				9' 22 3' 19	4 1/2 78				
LITTER	1/4"	1/2	1/2	1"	1/2"	1"	1/2	3/4	1 1/2	2 1/2
CANOPY	85	88	84	90	50	25	55	80	70	75
Distance	30'	30'	40'	22 1/2'	27 1/2'	29'	38'	29 1/2'	45 1/2'	24'

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 17(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	8' 39 9 1/2 24	4' 39	6' 56 7 1/2 79	4' 31 5 1/2 22	2' 31 4 1/2 22	3 1/2 27 6 1/2 31	6' 40 5 1/2 34	5' 24	4' 26 6 1/2 19	9' 22 18 32
Acer rubrum							3' 38			
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif	8' 105		7 1/2 29	10' 61	2 1/2 38 3 1/2 25			3' 26		
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau		8' 42 7 1/2 115	6 1/2 21	10' 54		7' 25			3' 25	13 91
Pinus Bank										
P. resinosa										
P. Strobus						7' 64				
Populus bals										
P. grand										
P. trem	4 1/2 20						7' 48	10' 95 13 1/2 65	8' 41	14' 65
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ		10 1/2 61								
Ulmus amer										
U. fulva										
LITTER	3"	3"	2 1/2	2 1/2	3 1/2	2 1/2	2 1/2	2"	2 1/2	1"
CANOPY	90	60	55	80	90	78	68	65	60	10
Distance	30	30	27	29	11 1/2	24	21 1/2	31 1/2	21	54

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 173)

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Abies balsam</i>	6 1/2 15 7 1/2 97	6 1/2 55	10 1/2 48	14 1/2 70	9 1/2 64	7 1/2 70	15 1/2 69	7 1/2 58	3 1/2 30	7 1/2 60
<i>Acer rubrum</i>						1 1/2 34				
<i>A. sacchar.</i>										
<i>A. spicatum</i>										
<i>Betula lut.</i>										
<i>B. papyrif</i>	13 1/2 41		15 1/2 110		16 1/2 94					
<i>Carpinus car</i>										
<i>Fagus gran</i>										
<i>Ostrya virg</i>										
<i>Picea glau</i>		9 1/2 48					8 1/2 34	10 1/2 175		
<i>Pinus Bank</i>										
<i>P. resinosa</i>										
<i>P. Strobus</i>										
<i>Populus bals</i>										
<i>P. grand</i>										
<i>P. trem</i>	5 1/2 74		7 1/2 45 5 108	16 1/2 125 7 1/2 87 17 1/2 79	4 1/2 39 14 1/2 65				10 1/2 85	12 1/2 48
<i>Prunus pen.</i>										
<i>Quercus ell</i>										
<i>Q. rubra</i>										
<i>Tilia amer</i>		9 1/2 46 10 1/2 38					6 1/2 18	5 1/2 110	3 1/2 45	2 1/2 55
<i>Tsuga can</i>										
<i>Thuja occ</i>										
<i>Ulmus amer</i>						9 1/2 42				
<i>U. fulva</i>										
LITTER	2"	2"	2 1/2	3 1/2	4"	4"	4"	5"	5"	4 1/2
CANOPY	75	55	28	15	22	60	65	20	85	85
Distance	32	34 1/2	37 1/2	54	43 1/2	28	31	33 1/2	19	25 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 17(4)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	7' 48	6' 29	10' 45			8' 75	7' 38	7' 15	8' 70	11' 31
Acer rubrum		10' 70	2' 40				6' 29			
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif				13' 163	9' 175					
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau				13' 235	24' 245			4' 105		
Pinus Bank										
P. resinosa										
P. Strobus	8' 84									
Populus bals										
P. grand										
P. trem	9' 45						7' 45			
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer	7' 75			8' 38	14' 32			6' 72	11' 80	7' 42
Tsuga can										
Thuja occ		14' 58		10' 35		3' 112				
Ulmus amer										
U. fulva					7' 51			5' 35		
Frax nig										13' 62
LITTER	5' 1/2	3"	4"	2"	2"	4"	5"	5"	3' 1/2	4"
CANOPY	80	45	50	75	55	25	65	85	75	65
Distance	32	37	30	45	54	29 1/2	25	22	36	52 1/2

Av. canopy.. 62%

Av. litter 2.7"

-ac
negundo

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 17(1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4 1/2 3	10 1/2 4 1/2 3	8 1/2 9		6	10 1/2 10		7 1/2 6 1/2	7 1/2 3 1/2	8 6 1/2 5
Acer rubrum										
A. sacchar.										
A. spicatum				3 1/2 12			7 5	6 1/2 2 1/2	3 6 1/2	5
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen. ^{mg}							4			
Quercus ell										
Q. rubra										
Tilia amer			11 18			7				
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Frax. mg	3 1/2 9	9		2 1/2	16 1/2 4 8	13	1			
Acer negundo				3 1/2						
Distance	19 1/2	27	46 1/2	21 1/2	24 1/2	40 1/2	17	22 1/2	20	24

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 17(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	3' 1'	4' 2'	3' 1'	4' 2'	2' 1'	2' 1'	2' 1'	3' 3'	3' 3'	1'
Acer rubrum										
A. sacchar.										
A. spicatum				1 1/2'				8'		6' 8'
Betula lut.										
B. papyrif	4 1/2'	2'		2'	3 1/2'	2 1/2'	4 1/2'		5 1/2'	7'
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau							4'		4 1/2'	13'
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Amelanchier										4'
Distance	9 1/2'	9'	10'	6 1/2'	11 1/2'	11 1/2'	15'	18 1/2'	13 1/2'	25'

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 17(3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4 1/2 5 1/2	7 1/2 7	4 1/2 14		8	3 1/2 3	2	3 4	2 3	4 9 1/2
Acer rubrum										
A. sacchar.										
A. spicatum	4 1/2 5 1/2	7 1/2 8 1/2	3 1/2 3 1/2	7 1/2 3	5 5 1/2 4 1/2	8 13	4 1/2 1 1/2	4 1/2 7 1/2	9 3	5
Betula lut.										
B. papyrif										
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 amor							7 1/2			4
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Tree like down				6						
gray ring				11 1/2						
Distance	19 1/2	30	25	28	23	27 1/2	15 1/2	19	17	22 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 17(4)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	5' 6 1/2	11 1/2	3 1/2 2	5 14		5 1/2 9	8' 9'	1' 3'	15'	
Acer rubrum										
A. sacchar.										
A. spicatum	1 1/2	3 1/2 7	3 1/2 12	13'	3' 3 1/2	2' 4	2' 4	10'	5'	
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem	3 1/2									
Prunus pen.										5'
Quercus ell										
Q. rubra										
Tilia amer				3'					11'	
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva									13'	
may nig										7' 8'
Distance	16 1/2	34	14	37 1/2	16 1/2	21 1/2	23	22 1/2	44	24

University of Wisconsin
STAND NO. 17

[illegible]

										10								20	
Carex disperma																			
Carex eburnea																			
Carex intumescens																			
Carex leptalea																			
Carex pedunculata	✓	✓	✓		✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	15 75
Carex pensylvanica	✓					✓													1 5
Carex projecta																			
Carex woodii																			
Carex spp.																			
Caulophyllum thalictroides	✓																✓	✓	2 10
Celastrus scandens	✓																		1
Chamaedaphne calyculata																			
Chimaphila umbellata																			
Chrysanthemum leucanthemum																			
Chrysosplenium americanum																			
Cicuta maculata																			
Cinna latifolia																			
Circaea alpina	✓											✓							1 5
Cirsium altissimum																			
Cirsium arvense																			
Cirsium vulgare																			
Claytonia caroliniana																			
Claytonia virginica																			
Clematis virginiana																			
Clematis verticillaris																			
Clintonia borealis	✓											✓							1 5
Comandra richardsoniana																			
Comandra umbellata																			
Comptonia peregrina																			
Convolvulus spithameus																			
Coptis groenlandicum																			
Corallorhiza maculata																			
Corallorhiza striata																			
Corallorhiza trifida																			
Cornus alternifolia	✓				✓					✓		✓							3 15
Cornus canadensis	✓				✓		✓	✓											3 15
Cornus racemosa																			
Cornus rugosa																			
Cornus stolonifera																			
Corydalis sempervirens																			
Corylus americana																			
Corylus cornuta	✓				✓			✓											2 10
Cryptotaenia canadensis																			
Cynoglossum boreale																			
Cynoglossum officinale																			
Cypripedium acaule																			
Cypripedium arietinum																			
Cypripedium calceolus	✓																		1
Cypripedium reginae																			
Cystopteris bulbifera																			
Cystopteris fragilis	✓																		1
Dalibarda repens																			

University of Wisconsin
STAND NO. 17

[illegible]

[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	✓																		1
Smilacina trifolia																			
Smilax herbacea occirrha	✓																		1
Smilax tamnoides var hispida																			
Spiranthes gracilis																			
Spiranthes romanzoffiana																			
Solidago canadensis																			
Solidago flexicaulis																			
Solidago gigantea																			
Solidago graminifolia																			
Solidago hispida																			
Solidago juncea																			
Solidago lepida	✓	✓		✓															2 10
Solidago macrophylla																			
Solidago rugosa																			
Solidago ulmifolia																			
Spiraea alba																			
Spiraea latifolia																			
Stachys palustris																			
Stellaria calycantha																			
Stellaria longifolia																			
Stellaria palustris																			
Streptopus amplexifolius																			
Streptopus roseus	✓					✓						✓	✓		✓	✓			5 25
Symphoricarpos albus																			
Symphoricarpos occidentalis																			
Taraxacum officinale																			
Taxus canadensis																			
Thalictrum dasycarpum																			
Thalictrum dioicum	✓			✓	✓	✓		✓		✓	✓			✓			✓	✓	10 50
Thalictrum polygamum																			
Tiarella cordifolia																			
Trientalis borealis	✓													✓					1 5
Trifolium hybridum																			

[illegible]

Grass sp.

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 17

TREES

- Acer negundo*
 ✓ *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 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 grypsosepala
Agrostis perennans
Allium tricoccum
Amphicarpa bracteata
Anaphalis 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 17

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 bicknelli
 Geranium maculatum
 Geum rivale
 Goodyera repens
 Goodyera tessellata
 Habenaria hyperborea
 Habenaria orbiculata
 Habenaria psycodes
 Habenaria viridis
 Halenia deflexa
 Helianthus strumosus
 Hepatica acutiloba
 ✓ Hepatica americana
 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 mistassinica
 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

Viola sp. - incognita

Brachyleitrum erectum

Pteris pensylvanicum

Urtica - L. portia canadensis

Small unbranched horsetail - Equisetum

Zuccus macro

Menispermum canadense

Mertensia paniculata

Zell Lycopodium - 4 leaves - calceolus

Caulophyllum thalictroides

Carex pedunculata

Galium asprellum

Scirpoides

Solidago lepida

Equisetum arvense & borealis

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 17 (1)

TREE SEEDLINGS

- 5 Abies balsamea
Acer pensylvanicum
2 Acer rubrum
Acer saccharum
7531 Acer spicatum
Betula lutea
4 Betula papyrifera

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

04321 *Frax. nigra*

SHRUBS

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

3 *Cornus alternifolia*

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

HERBS

- Actaea pachypoda
5 Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
Anemone quinquefolia
Anemone virginiana
Antennaria spp.
0 Apocynum androsaemifolium
Aquilegia canadensis
09542 Aralia nudicaulis
Arisaema atrorubens
037 Aster macrophyllus
Athyrium filix-femina
9 Botrychium virginianum
985421 Carex pensylvanica - *Carex pedunculata*
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
Clintonia borealis
Coptis groenlandicum
Coralorhiza maculata
764 Cornus canadensis
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

- Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
4 Fragaria vesca
Fragaria virginiana
Galium aparine
09 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
765421 Maianthemum canadense
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

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

42 *Prunus virginiana*

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

- 94 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
543 Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
5 Streptopus roseus
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
5421 Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
0 Viola renifolia ✓
Waldsteinia fragarioides

Additional species

- Menispermum canadense*
Moss 1345678
Asarum can 35
Mertensia pauciflora
Thalictrum dio 34579
Potamogeton 4
Viola sp. 49 - incognita
Lichen 2, 5, 6
Equisetum laevigatum - arvense v. borealis
Sium 57
Pyrola asarifolia 8

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 17 (2)

TREE SEEDLINGS

8763 Abies balsamea
Acer pensylvanicum
Acer rubrum
Acer saccharum
97654324 Acer spicatum
Betula lutea
Betula papyrifera

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

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

52 Prunus nig

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
Corylus cornuta
Diervilla lonicera
Dirca palustris
Ilex verticillata
Ledum groenlandicum
8 Lonicera canadensis
Cornus alternifolia 13

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
0 Actaea rubra
Adiantum pedatum
Anaphlis margaritacea
Anemone cylindrica
5 Anemone quinquefolia
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
Aquilegia canadensis
865432 Aralia nudicaulis 90
Arisaema atrorubens
09824 Aster macrophyllus
Athyrium filix-femina
Botrychium virginianum
765421 Carex pensylvanica 890 - Carex pedunculata
Chimaphila umbellata
Chrysanthemum leucanthemum
3 Circaea alpina
Claytonia caroliniana
Claytonia virginiana
3 Clintonia borealis
Coptis groenlandicum
Corallorhiza maculata
Cornus canadensis
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

086 Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
09 Fragaria vesca
Fragaria virginiana
Galium aparine
07321 Galium triflorum
Gaultheria hispidula
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
06 Hepatica americana
Hieracium aurantiacum
Linnaea borealis
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
8532 Maianthemum canadense
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

97654 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
864 Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
9865 Streptopus roseus
Tiarella cordifolia
6 Trientalis borealis
Trillium erectum
Trillium grandiflorum
098543 Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
9 Viola renifolia ✓
Waldsteinia fragarioides

Additional species

Prunus 12690
Thalictrum dio 12690
Mn 1235679
Nichen 124567

Urtica grand 2460
Viola sp 3679
Asperula can 689
Viola conspersa 6
Galium boreale 890
Caulophyllum thalictroides 90