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Site 6007 (Boreal Stand 7): Moquah, Bayfield County, Township 47N, Range 6W, Section 20. 1955-07-02

[s.l.]: [s.n.], 1955-07-02

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STAND RECORD

FORESTS

Stand No. 7

Name: *Mogual* - 5 Mi S.W. on Co Hwy G - $\frac{1}{2}$ mile E of Hwy 2
 County: *Bayfield* Locality: T: 47N R: 6W Sec: 20 NE-SW
 Date: *July 2, 1953* Observers: *PFM*
 Size of Stand: *15 acres* Size of Area Sampled: *20 acres*
 Forest Type: *Spruce - pine - fir - hardwoods* Soil Type: *Red Clay*
 Topography: *slightly rolling or undulating* Slope: *slight slope to W.* Directions

Condition of Stand:

Very good condition - large pine + spruce
Logged for pine - several large pine stumps
Rich understory of shrubs + herbs.
Age of stand - one large spruce bore - 70 yrs. old - pine is older
Several big spruce recently removed.
One old pine stump well charred.
 Found by *P. F. Maycock*
 % Canopy: *Average 55-60%*

Open Grown Trees:

Stumps:

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

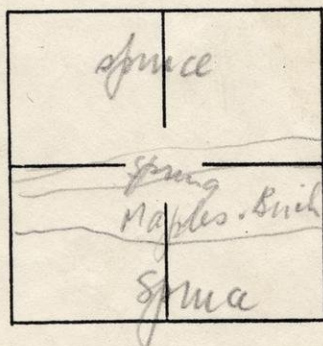
Soil Data:

	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.)			
	#1	#2	#3	#4	
A ₀	$\frac{1}{2}$ "	2"	3-4"	2"	
A ₁		6-8" black sandy	$\frac{1}{4}$ - $\frac{1}{2}$ " - black in reddish brown	1- $\frac{1}{2}$ " black	
A ₂	3" red clay	7"	2" - reddish, slight leaching	2" greyish brown	
B	1" sand	reddish sand	1' + reddish brown sandy loam	9" red-brown sandy loam	+ bright red crumbly clay

Parent Material:

Map:



Many fallen logs of balsam
Considerable spruce + balsam regon
Rich black soils under influence of spring
Clay soils in higher spots - leaching evident
only slightly in clay profiles
Large balsam encountered - BA 1815g, 100' high

Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

172.2

Spruce-fir
Northern Pine-Hardwoods

Station Number: 7 - 2109

Mid range
Index

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM.	# SAP	D. % SAP	F. % SDL.	F. % TRS.	% SUM F. TR.	D. % TRS.	DOM% TRS.	DFD INDEX	(NEW LOWLAND INDEX C. I.)	N. limit Index
			-80	-320	321											
561.6 Abies bals	27	46				1790	47	29.4		67.5	20.8	28.7	12.9	62.4	436.8	499.2
45.8 Acer rubru	11	13				651	16	10.0		32.5	10.0	8.2	4.3	22.9	137.4	114.5
173.2 A. sacchar	19	24				1355	27	16.9		60.0	18.5	15.0	9.8	43.3	433.0	216.5
9.0 A. spicatu							39	24.4							1.0	1.0
144.0 Betula lut	10	11				1192	7	4.3		27.5	8.5	6.9	8.5	24.0	192.0	120.0
117.0 B. papyrif	6	6				475	3	1.9		15.0	4.6	3.7	3.4	11.7	58.5	105.3
Carpinus c																
Fagus gran																
Ostrya vir																
809.0 Picea glau	28	37				5016	2	1.3		70.0	21.5	23.2	36.2	80.9	485.4	809.0
Pinus Bank																
7.0 P. resinosa															1.0	1.0
25.2 P. Strobus	1	1				300				2.5	0.8	0.6	2.2	3.6	18.0	21.6
Populus ba																
P. grandid																
24.8 P. tremulo	1	1				240	3	1.9		2.5	0.8	0.6	1.7	3.1	6.2	27.9
Prunus serot. per							2	1.3								
Quercus el																
91.0 Q. rubra	8	9				897	1	0.6		20.0	6.1	5.6	6.5	18.2	109.2	72.8
Tilia amer																
177.1 Tsuga cana	9	9				1783				22.5	6.9	5.6	12.8	25.3	202.4	50.6
Thuja occi																
Ulmus amer																
U. fulva																
27.6 Frax. nigra	2	3				169	7	4.3		5.0	1.5	1.9	1.2	4.6	21.6	32.2
3.0 Amelanchier							3	1.9							1.0	1.0
Prunus virg.							1	0.6								
2215 Alnus rug.		160				TOTAL 13868	2	1.3	TOTAL	325.0		100.0	100.0		(1807)	2072.6

AVE. DIST. BTW'N TREES:

12.2

AVE B. A 160 100.0

86.7

TREES PER 100.0 100.00 300.0 DOM. / ACRE: 2109

293

25,403

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 7

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Abies balsam</i>	4' 26	14' 24		9' 75	16' 30 11' 34			2' 25 27' 80	3' 21 12' 45	13' 23
<i>Acer rubrum</i>										
<i>A. sacchar.</i>		1' 15 3' 25		11' 41					8' 30	5' 30
<i>A. spicatum</i>										
<i>Betula lut.</i>					12' 245	9' 35				
<i>B. papyrif</i>	4' 75	8' 55		12' 45		20' 100	13' 50			
<i>Carpinus car</i>										
<i>Fagus gran</i>										
<i>Ostrya virg</i>			5' 120							
<i>Picea glau</i>	6' 225		6' 100 8' 250	18' 105		20' 45	10' 92	3' 316	16' 57	9' 135
<i>Pinus Bank</i>			12' 42							
<i>P. resinosa</i>										
<i>P. Strobus</i>							27' 300			
<i>Populus bals</i>										
<i>P. grand</i>										
<i>P. trem</i>							14' 240			
<i>Prunus pen.</i>										
<i>Quercus ell</i>										
<i>Q. rubra</i>								11' 12		14' 115
<i>Tilia amer</i>										
<i>Tsuga can</i>						12' 255				
<i>Thuja occ</i>										
<i>Ulmus amer</i>										
<i>U. fulva</i>										
<i>Fraxinus nigra</i>	3' 30									
DEPTH OF LITTER	1/2"	2	1 1/4"	1	2 1/2 3"	1 1/2"	2"	1/2"	1 1/2"	1/2"
CANOPY ESTIMATED	60%	80%	50%	30%	30%	20%	85%	75%	25%	5%
Distance	17'	26'	31'	50'	48'	61'	64'	43'	39'	41'

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 7

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	15' 52 11' 26					11' 50 13' 122 13' 12	3' 44 2' 31	7' 12	11' 22 7' 21	10' 55 11' 20
Acer rubrum		5' 70	14' 75 25' 55			12' 19		2' 30	7' 2	
A. sacchar.			18' 31	8' 14	16' 70 15' 68					28' 40
A. spicatum										
Betula lut.	14' 76			10' 130 21' 85						26' 55
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	9' 161	15' 75 18' 200	8' 173	25' 65	7' 71 12' 180		9' 220			
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra		17' 55						10' 85		
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Thymus n.							8' 50 20' 89			
DEPTH OF LITTER	2"	2"	1/2"	1 1/2"	1/2"	3"	1 1/2"	2"	1"	1"
CANOPY	50%	10%	45%	85%	70%	0%	80%	90%	75%	85%
Distance	49'	45'	65'	64'	50'	49'	33 1/2'	28'	31'	75'

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 7

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam		9' 65	10' 120	15' 37		18' 54 12' 10	7' 56		2' 14 13' 25	5' 14 4' 25
Acer rubrum	4' 26						5' 43	13' 35		8' 20
A. sacchar.			12' 12	18' 50	13' 54 28' 60		6' 19	8' 43 10' 60		21' 15
A. spicatum										
Betula lut.		17' 20					27' 80			
B. papyrif						9' 50				
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	7' 45 8' 120	6' 111		10' 75	8' 181				9' 171	
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra		16' 20	8' 50 31' 110							
Tilia amer										
Tsuga can	13' 300			24' 175	19' 170	15' 230		10' 260	3' 168	
Thuja occ										
Ulmus amer										
U. fulva										
2001-2009										12'
DEPTH OF LITTER	2 1/2"	4"	1 1/2"	3-4"	1"	4"	1/2"	1/2"	1/2"	2"
CANOPY	60%	50%	65%	10%	30%	8%	50%	85%	80%	1%
Distance	32 1/2'	48'	61'	67'	68 1/2'	54'	45'	41'	27 1/2'	38'

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 7

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	17' 120		35' 45		13' 45		17' 120	18' 22	21' 28	24' 28
Acer rubrum	3' 140			6' 35	12' 55	16' 30	13' 45			
A. sacchar.		18' 102	9' 110	24' 86		6' 54		1' 34		24' 160
A. spicatum								11' 47		
Betula lut.				23' 75	18' 90	22' 41				
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	9' 155	13' 162	16' 108	11' 110		27' 25	8' 34	3' 140	8' 132	4' 112
Pinus Bank							3' 180		7' 201	
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra	13' 270		4' 180							
Tilia amer										
Tsuga can		28' 100							6' 125	
Thuja occ										
Ulmus amer										
U. fulva										
DEPTH OF LITTER	3"	3"	8"	3"	2 1/2"	1"	2"	2"	2"	1"
CANOPY	75%	18%	60%	70%	0%	1%	50%	75%	15%	70%
Distance	42'	72'	64'	64'	53'	71'	41'	33'	53'	59'

Av. canopy - 48%

Av. litter - 1.9"

POINT RECORD TREES *saplings* NORTHERN PINE-HARDWOODS

Stand No. 7

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	26' 9'	23' 14'	18' 12'	21' 19'	29' 25'	23'	8'	15' 10' 12'	9' 8' 9' 14'	11' 12'
Acer rubrum										
A. sacchar.	7'	10'	7'	13' 13'	33'	7'	12'			6'
A. spicatum			12'					4'		
Betula lut.					24'	8'				20'
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem						9'	7' 12'			
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
<i>Frax. nigra</i>	19'	7'								
Distance	61'	54'	49'	66'	111'	47'	39'	41'	40'	49'

POINT RECORD TREES *saplings*

NORTHERN PINE-HARDWOODS

Stand No. 7

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	3'		9'				2' 14'		19' 13'	
Acer rubrum	6' 14'	4' 5'				11'		2' 8'		6' 4'
A. sacchar.						16'				
A. spicatum		2'	3' 2'	6' 5'	4' 6'	7' 4'	7'	11'		
Betula lut.						14'	11'			
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau			4'							
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra									5'	
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
<i>Frax nigra</i>		4'			6'			11'		
<i>Alnus rugosa</i>					7'			1'		
Distance	28'	16'	18'	21'	24'	48'	38'	22'	44'	22'

POINT RECORD TREES *saplings* NORTHERN PINE-HARDWOODS

Stand No. 7

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	13'			4'		4'	4'		24'	7'
Acer rubrum						3'			10'	2'
A. sacchar.	21'	11'	23'	2'	13'			4'	27'	
	19'	14'	14'					6'		
A. spicatum		13'		7'	12'	4'		7'		
				4'	7'			8'		
Betula lut.							10'			
B. papyrif							11'			
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau			1'							
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										
<i>Amdanchien</i>		3'					14'			
<i>Frax nigra</i>										12'
Distance	67'	29'	52'	17'	38'	17'	39'	25'	74'	29'

POINT RECORD TREES *saplings*

NORTHERN PINE-HARDWOODS

Stand No. 7

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	1' 4' 14'		8'		5' 10'	4'	11'	7'		
Acer rubrum		17'			5'					
A. sacchar.				10 1/2'					13' 15'	7'
A. spicatum		8 1/2'	14' 9'		6'	7' 8'	2' 6' 3'	5' 4'	6' 4'	4' 7' 9'
Betula lut.				2'						
B. papyrif	21'			12'						
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen. <i>serot</i>						4'		2'		
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
<i>Prunus virg</i>		11'								
<i>Alnus rugosa</i>		18'								
<i>Amelanchier</i>				7'						
Distance	40'	54 1/2'	38'	31 1/2'	26'	23'	22'	18'	38'	27'

[illegible]

[illegible]

[illegible]

[illegible]

									10								20	
<i>Luzula multiflora</i>																		
<i>Lycopodium annotinum</i>	✓																	1
<i>Lycopodium clavatum</i>	✓															✓	1	5
<i>Lycopodium complanatum</i>																		
<i>Lycopodium inundatum</i>																		
<i>Lycopodium lucidulum</i>	✓																	1
<i>Lycopodium obscurum</i>	✓			✓	✓				✓	✓						✓	5	25
<i>Lycopodium sabinaefolium</i>																		
<i>Lycopodium selago</i>																		
<i>Lycopodium tristachyum</i>																		
<i>Lycopus americanus</i>																		
<i>Lycopus uniflorus</i>																		
<i>Lysimachia ciliata</i>																		
<i>Lysimachia quadrifolia</i>																		
<i>Lysimachia terrestris</i>																		
<i>Maianthemum canadense</i>	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15 75
<i>Malaxis unifolia</i>																		
<i>Medeola virginiana</i>																		
<i>Melampyrum lineare</i>																		
<i>Menispermum canadense</i>																		
<i>Mertensia paniculata</i>																		
<i>Milium effusum</i>																		
<i>Mitchella repens</i>	✓		✓						✓									2 10
<i>Mitella diphylla</i>																		
<i>Mitella nuda</i>	✓		✓	✓					✓	✓								4 20
<i>Moneses uniflora</i>																		
<i>Monotropa hypopithys</i>																		
<i>Monotropa uniflora</i>																		
<i>Mosses spp.</i>	✓	✓				✓			✓		✓	✓	✓		✓	✓	✓	10 50
<i>Nemophanthus mucronata</i>																		
<i>Onoclea sensibilis</i>																		
<i>Orchis spectabilis</i>																		
<i>Oryzopsis asperifolia</i>	✓			✓														1 5
<i>Oryzopsis racemosa</i>																		
<i>Osmorhiza claytoni</i>																		
<i>Osmorhiza longistylis</i>																		
<i>Osmunda claytoniana</i>	✓																	1
<i>Osmunda cinnamomea</i>	✓																✓	1 5
<i>Osmunda regalis</i>																		
<i>Oxalis montana</i>	✓							✓										1 5
<i>Oxalis stricta</i>																		
<i>Panax quinquefolius</i>																		
<i>Panax trifolius</i>	✓																	1
<i>Parthenocissus inserta</i>																		
<i>Parthenocissus quinquefolia</i>																		
<i>Petasites palmatus</i>	✓																	1
<i>Phleum pratense</i>																		
<i>Phlox divaricata</i>																		
<i>Phryma leptostachya</i>																		
<i>Plantago major</i>																		
<i>Poa compressa</i>	✓																	1 5
<i>Poa pratensis</i>	✓			✓	✓								✓		✓			4 20

[illegible]

[illegible]

[illegible]

PRESENCE LIST

May 29, 1986

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 7

Moquel

TREES

Abies balsamea
Acer pensylvanicum
Acer rubrum
✓Acer saccharum
✓Acer spicatum
✓Amelanchier spp. f
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 f
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 cassinioides
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 f
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 f
Comandra richardsiana
Comandra umbellata
✓Coptis groenlandicum f
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

Stand mostly logged - windthrow of Ab as result

PRESENCE LIST

May 21, 1956

SPRUCE-FIR - MIXED HARDWOODS

5-9

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 f
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 fb
Malaxis unifolia
Medeola virginiana
Melampyrum lineare
✓ Mitchella repens
Mitella diphylla
✓ Mitella nuda fb
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 f
✓ Petasites palmatus f
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
Smilax herbacea
Solidago canadensis
Solidago flexicaulis
Solidago graminifolia
Solidago ulmifolia
Stellaria calycantha
Streptopus amplexifolius
✓ Streptopus roseus
✓ Taraxacum officinale f
✓ Thalictrum dioicum
Thalictrum polygamum
Tiarella cordifolia
✓ Trientalis borealis f
✓ Trillium cernuum f
Trillium erectum
Trillium grandiflorum
Trillium undulatum
Uvularia grandiflora
✓ Uvularia sessilifolia f
Vicia americana
Viola adunca
Viola blanda
Viola canadensis
✓ Viola conspersa f
Viola cucullata
✓ Viola incognita f
Viola nephrophylla
Viola pallens
✓ Viola papilionacea f
Viola pubescens
Viola renifolia
Viola selkirkii
Viola sororia
Waldsteinia fragarioides

Additional species

Onyxis asperifolia f
Juniperus effusus f
Tran sp
Carex pedunculata
Brachyotum erectum
Galium asprellum

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 7

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* *seedling*
- ✓ *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*
- ✓ *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

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 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

Lactuca sp. canadense
 Ribes sp. - missouriense
 Viola - branched - conspersa
 Carex sp. ? - woodii
 Brachylettrum erectum
 Viola sp. - renifolia
 Ribes missouriense
 Cicuta maculata
 Oryzopsis asperifolia

Polytichum communis?
 Lichens
 Lagergren schneberi
 Fagopyrum esculentum
 Erysimum cheiranthoides
 Rumex - tall large leaves
 Thalictrum dasycarpum
 Agrimonia gryposepala
 Festuca obtusa

Silene michiganensis
 Hieracium aurant. - on edge
 Carex brunneocinctus
 Carex projecta
 Carex pedunculata
 Equisetum arvense v. boreale
 Galium asprellum
 Aster lateriflorus

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 7

1st frequency sheet.

TREE SEEDLINGS

- 32 Abies balsamea
Acer pensylvanicum
732 Acer rubrum
Acer saccharum
95421 Acer spicatum
03 Betula lutea
1 Betula papyrifera

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

- Pinus strobus
Populus tremuloides
Prunus pensylvanica
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis 9
Fraxinus nigra - 1.9

SHRUBS

- Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
093 Corylus cornuta
4 Diervilla lonicera
5 Dirca palustris
Ilex verticillata
Ledum groenlandicum
Lonicera canadensis
1 Lonicera hirsutum
04 Cornus nemoralis

- 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
Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
2 Anemone quinquefolia
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
Aquilegia canadensis
9761 Aralia nudicaulis
Arisaema atrorubens
54321 Aster macrophyllus 6790
Athyrum filix-femina
Botrychium virginianum
Carex pensylvanica
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
97543 Clintonia borealis
5432 Coptis groenlandicum 90
Corallorhiza maculata
075 Cornus canadensis
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
9 Dryopteris phegopteris

- 9761 Dryopteris spinulosa
Epigaea repens
5 Epilobium angustifolium
643 Equisetum sylvaticum
Erythronium americanum
0962 Fragaria vesca
Fragaria virginiana
8 Galium aparine asprellum
9743 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
43 Lycopodium obscurum
09765412 Maianthemum canadense
Medeola virginiana
Melampyrum lineare
02 Mitchellia repens
Mitella diphylla

- 9832 Mitella nuda
Monotropa uniflora
Osmorhiza claytoni
7 Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
Prenanthes alba
5 Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
761 Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
653 Streptopus roseus
Tiarella cordifolia
07 Trientalis borealis
Trillium erectum
Trillium grandiflorum
431 Uvularia sessilifolia
Viola canadensis
87 Viola cucullata incognita
197 Viola pallens selkirkii
Viola pubescens
03 Viola renifolia
Waldsteinia fragarioides

Additional species Carex 4 - arotata 15790
Impatiens capensis 178
Mn 1
Wade Grass 1 - species 14790
= Brachyelytrum erectum

Calamagrostis 9.6
Carex - brown base - 2
Poa - 23
Rumex 2
Sarracenia 3
Dryopteris

Asarum 9
Salix sp 5
Marsh grass 6
Sambucus 6
Prenanthes 8
Carex sp 89 - large fruits intense
Ranunculus recurvatus 9.9
Zoraster 8
Asarum 9
Asarum 9
Asarum 9

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 7

Second frequency sheet

TREE SEEDLINGS

- 862 Abies balsamea 9
Acer pensylvanicum
76321 Acer rubrum 9
61 Acer saccharum
743 Acer spicatum 9
2 Betula lutea
Betula papyrifera
4 Fraxinus nigra

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

- Pinus strobus
Populus tremuloides
Prunus pensylvanica
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis
Quercus rubra 9

SHRUBS

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

- Prunus pumila
Pyrus melanocarpa
Ribes cynosbati
6 Ribes glandulosum triste
Ribes lacustre
Rosa sp.
Rubus (blackberry)
07631 Rubus (dewberry)
Rubus (raspberry)
9863 Rubus idaeus

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

HERBS

- Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
541 Anemone quinquefolia
Anemone virginiana
Antennaria spp.
9 Apocynum androsaemifolium
Aquilegia canadensis
08531 Aralia nudicaulis
Arisaema atrorubens
6431 Aster macrophyllus 790
Athyrium filix-femina
Botrychium virginianum
Carex pensylvanica
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
65321 Clintonia borealis 89
62 Coptis groenlandicum
76532 Cornus canadensis 890
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

- 3 Dryopteris spinulosa
Epigaea repens
63 Epilobium angustifolium
4 Equisetum sylvaticum
Erythronium americanum
421 Fragaria vesca
421 Fragaria virginiana
Galium aparine
42 Galium triflorum
Gaultheria hispida
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
2 Linnaea borealis
Lycopodium annotinum
8 Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
921 Lycopodium obscurum
0965421 Maianthemum canadense
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

- Mitella nuda
Monotropa uniflora
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
Prenanthes alba
097643 Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
07631 Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
098765421 Streptopus roseus
Tiarella cordifolia
0321 Trientalis borealis
Trillium erectum
Trillium grandiflorum
542 Uvularia sessilifolia
Viola canadensis
71 Viola cucullata incognita
42 Viola pallens selkirkii
Viola pubescens
8 Viola renifolia
Waldsteinia fragarioides

Additional species

- Wedge grass 1-Brachyotum
Calamagrostis 1
09 Carex - Thunbergii 12456
Carex - intumescens 39
Carex - large fruit
Sagittaria maritima 3
Poa pratensis 46
Zaraxium 4
Poa compressa 5
Rubus parviflorus 5
Ribes missouriense 7
Cornus racemosa 7
Carex - wide leaves 8
Carex - arctata
Sagittaria sp. coll. 0
Prenanthes alba 0
Osmunda cinnam 0
Lathyrus 0