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Site 6067 (Boreal Stand 67): Superior Municipal Forest, Douglas County, Township 48N, Range 14W, Section 8. 1956-07-01

[s.l.]: [s.n.], 1956-07-01

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STAND RECORD

FORESTS

Stand No. 67

25 yd int.

Name: Superior Municipal Forest

County: Douglas

Date: July 18, 1956

Size of Stand 40 acres

Forest Type: Wp - Spruce-fir

Topography:

gently rolling

Locality:

T: 48 N

R: 14 W.

Sec: 8

Observers: PFM

Size of Area Sampled:

Soil Type:

Slope:

slight

Directions

N facing

Condition of Stand:

Never logged during lifetime of present stand; previously logged & burned
- same siteCanopy not too dense, fairly open, shrubby ground cover & rich herbaceous cover
Reported by Charles Nightingale, Douglas Co., Forest.

Open Crown 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									

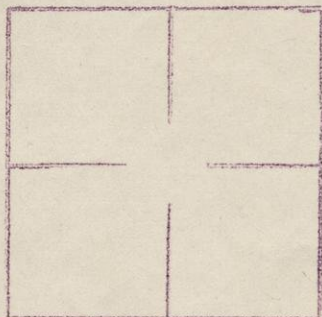
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	3/4 needles + leaves	3/4 needles + leaves	1/2 needles + leaves
A ₁	2" crumbly dark red	1 1/2" crumbly reddish black	2" black crumbly
A ₂	1-2" leach grayish red	1/2" leached hardly visible	1/2" leached hardly seen
B	red clay	red clay	red clay

Parent Material:

Map:



Stand 50-60 yrs. Wp bored - 55

TREE DATA SUMMARY SHEET

spruce-fir, spruce-fir-mixed hardwoods.
~~Northern Pine-Hardwoods~~

Station Number: 67

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	20	23				691	74	46.3		50.0	24.4	14.4	6.3	45.1	7 315.7
Acer rubru															
A. sacchar															
A. spicatu							2	1.3							
Betula lut															
B. papyrif	14	17				656	23	14.4		35.0	17.1	10.6	5.9	33.6	5 168.0
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau	17	21				2167	3	1.9		42.5	20.7	13.2	19.6	53.5	6 321.0
Pinus Bank															
P. resinosa	1	1				120	1	0.6		2.5	1.2	0.6	1.1	2.9	3 8.7
P. Strobus	29	97				7398	36	22.5		72.5	35.4	60.6	66.9	162.9	5 814.5
Populus ba							1	0.6							
Pyrus amer. P. grandid	1	1				24				2.5	1.2	0.6	0.2	2.0	
P. tremulo							10	6.3							
Prunus pen							1	0.6							
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Prunus virg							1	0.6							
Amelanchier sp.							4	2.5							
Alnus rug.							4	2.5							
TOTALS	82	160				11,056	160	100.0		205.0	100.0	100.0	100.0	300.0	1628 +

AVE. DIST. BTW'M TREES:

10.3

AVE. B. A.:

69.1

TREES/ACRE:

411

DOM./ACRE:

28,400

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 67(1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	2	29							27	19
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif				3	60					5
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	21	48	14	42				6	140	
Pinus Bank										
P. resinosa				3 1/2	25		13 1/2	23 1/2	7 1/2	68
P. Strobus	6 1/2	22 1/2	3	132	8	55	11	65	5	68
	7 1/2	35	16	32	16	70	13	85	19	32
Populus bals			14	55	10	85	8	15	10	59
									9 1/2	105
P. grand									6	46
P. trem									15	55
Prunus pen.									30	139
Quercus ell									11	105
Q. rubra									3	68
Tilia amer									1	90
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Pyrus amer					7	24				
Canopy	15	15	20	60	20	65	60	70	75	45
Litter	1	3/4	1"	1/2	1 1/2	1	3/4	1 1/2	3/4	1/2
Distance	36 1/2	37	37 1/2	35	41	33 1/2	40 1/2	32	71 1/2	14

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 67(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam			10 1/2 50			7 1/2 22	8 1/2 27	5 1/2 20	10 1/2 27	
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif			7 35		10 1/2 24		1 25	9 30		
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	4 155	7 145			6 41				14 280	11 1/2 60
Pinus Bank					8 77					3 89
P. resinosa										12 1/2 115
P. Strobus	11 48	14 47	14 105	5 40	10 45	10 90	4 140	24 100	4 180	12 1/2 35
Populus bals	14 31	9 151	8 1/2 19	6 70		12 1/2 118		23 165	11 180	
P. grand	8 35	10 1/2 21		3 48		9 41				
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Canopy	80	70	40	30	80	35	85	30	50	20
Light	1 1/2	1/2	1/4	1/2	1/4	1/2	1	1/4	1/2	1/4
Distance	27	40 1/2	40	21 1/2	34 1/2	39	20	61 1/2	39 1/2	39 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 67(3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	10 1/2 34 12 1/2 20			11 24	8 1/2 32	7 28	9 1/2 32		24 19 19 37	14 58
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula. lut.										
B. papyrif		9 1/2 30	6 52		12 46 14 28					
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau		8 165		7 62	7 1/2 74		33 40 12 29		7 1/2 27 14 30	
Pinus Bank										
P. resinosa										
P. Strobus	12 47 6 45	15 83 7 1/2 61	17 185 9 1/2 47	7 1/2 72 14 60		9 1/2 18 10 49	11 36 13 39	16 25 12 60 3 1/2 66	14 109 28 96	13 116
Populus bals			12 15							
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Canopy	60	70	50	15	80	10	65	60	60	30
Letter	1/2	1"	3/4	1/2	1 1/4	1	3/4	1/2	3/4	1/2
Distance	41	40	54 1/2	39 1/2	42	39 1/2	65 1/2	37 1/2	64 1/2	64

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. (674)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4 30	16 30			9 22	4 40			7 1/2 16	19 32
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif	5 24 11 40		12 46 12 41	20 29	7 42	9 52				
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau		10 198			11 58	9 1/2 88				
Pinus Bank										
P. resinosa				12 38			18 135	10 6 1/2 120		
P. Strobus	15 105	14 1/2 100 11 214	9 1/2 160 4 75	15 95 8 47	9 1/2 116	8 1/2 29	8 120 17 95 17 1/2 20	4 33 15 36 15 45	1 1/2 80 19 60 17 110	9 1/2 108 19 215 16 72
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Canopy	70	40	55	10	55	60	60	45	45	25
Litter	1 1/2	1/4	1/2	1/4	1/2	1/2	3/4	1	1/2	3/4
Distance	35	51 1/2	37 1/2	58	36 1/2	31	40 1/2	30 1/2	35	53 1/2

Av. Canopy - 48.20.

Av. Litter 0.7"

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 67 (1) SAPLING

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	15	7 1/2 28	21	11	9 1/2 18		18		11	
Acer rubrum										
A. sacchar.										
A. spicatum										7
Betula lut.										
B. papyrif				10			24		27	10
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau			18							
Pinus Bank										
P. resinosa										
P. Strobus	10	3	15 2	8 19	28 4	11 16	3 2 1/2	4 1/2 12 1/2	9 1/2 22	35 18
Populus bals										
P. grand										
P. trem	14									
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Rumex vrig	11									
Amelanchier					11	20	4			
Distance	50	59 1/2	54	33	66 1/2	50	48 1/2	48 1/2	91	47 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 67(3) SAPLINGS

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	16 16	8 19	12 16 12½	14	1 3	7½ 2 7	6 1	1½ 4 11	35	17 13½ 16
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif			13	26						
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus				15 14	9½	6				
Populus bals							7			
P. grand										
P. trem	4	19		25			9½			10
Prunus pen.						6				
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Alnus incana	12								11 6	13½
Distance	48	64	51½	80	15½	26½	23½	17½	65½	56½

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 6761 SAPLINGS

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	6 1/2	17	6 1/2 32	8	10 11	17 9	16 1/2 11	18 13	15 21	5 1/2 11 1/2
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif		3 1/2	5	15	8 1/2	10	9	10	17	20
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	4	20								
Pinus Bank										
P. resinosa										15
P. Strobus	7 1/4	20	29	20						
Populus bals										
P. grand										
P. trem				18				12		
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Distance	21 1/2	60 1/2	72 1/2	61	40 1/2	45	37 1/2	53	77	52

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 67(4) SAPLINGS

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	19 9	3 16	1 23	4 4½	14	7 19	2 12	2 6	2 19	7 26
Acer rubrum										
A. sacchar.										
A. spicatum								7		
Betula lut.										
B. papyrif		27	8½	16	2½ 10	3½ 9½			15	
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus	7			9		13½ 8	5		10	11
Populus bals										
P. grand										
P. trem				17						1
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Amelanchier							35			
Distance	41	69	18	56	38½	34½	22	34	44	45

[illegible]

	P	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10		
<i>Carex disperma</i>																							
<i>Carex eburnea</i>																							
<i>Carex intumescens</i>																							
<i>Carex leptalea</i>																							
<i>Carex pedunculata</i>	✓									✓		✓		✓	✓				✓	✓		6	30
<i>Carex pensylvanica</i>	✓																	✓				1	5
<i>Carex projecta</i>																							
<i>Carex woodii</i>																							
<i>Carex spp.</i>																							
<i>Caulophyllum thalictroides</i>																							
<i>Celastrus scandens</i>																							
<i>Chamaedaphne calyculata</i>																							
<i>Chimaphila umbellata</i>																							
<i>Chrysanthemum leucanthemum</i>																							
<i>Chrysosplenium americanum</i>																							
<i>Cicuta maculata</i>																							
<i>Cinna latifolia</i>																							
<i>Circaea alpina</i>																							
<i>Cirsium altissimum</i>																							
<i>Cirsium arvense</i>																							
<i>Cirsium vulgare</i>																							
<i>Claytonia caroliniana</i>																							
<i>Claytonia virginica</i>																							
<i>Clematis virginiana</i>																							
<i>Clematis verticillaris</i>																							
<i>Clintonia borealis</i>	✓																				✓	1	5
<i>Comandra richardsiana</i>																							
<i>Comandra umbellata</i>																							
<i>Comptonia peregrina</i>																							
<i>Convolvulus spithameus</i>																							
<i>Coptis groenlandicum</i>																							
<i>Corallorhiza maculata</i>	✓																						1
<i>Corallorhiza striata</i>	✓																			✓		1	5
<i>Corallorhiza trifida</i>																							
<i>Cornus alternifolia</i>																							
<i>Cornus canadensis</i>	✓			✓				✓						✓			✓	✓	✓		✓	7	35
<i>Cornus racemosa</i>																							
<i>Cornus rugosa</i>	✓			✓				✓	✓				✓				✓		✓	✓		7	35
<i>Cornus stolonifera</i>																							
<i>Corydalis sempervirens</i>																							
<i>Corylus americana</i>																							
<i>Corylus cornuta</i>	✓		✓	✓	✓		✓						✓	✓	✓				✓		✓	9	45
<i>Cryptotaenia canadensis</i>																							
<i>Cynoglossum boreale</i>																							
<i>Cynoglossum officinale</i>																							
<i>Cypripedium acaule</i>																							
<i>Cypripedium arietinum</i>																							
<i>Cypripedium calceolus</i>																							
<i>Cypripedium reginae</i>																							
<i>Cystopteris bulbifera</i>																							
<i>Cystopteris fragilis</i>																							
<i>Dalibarda repens</i>																							

[illegible]

[illegible]

[illegible]

	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10		
Podophyllum peltatum																						
Polygala paucifolia																						
Polygonatum biflorum																						
Polygonatum pubescens																						
Polygonum cilinode																						
Polymnia canadensis																						
Polypodium virginianum																						
Potentilla canadensis																						
Potentilla norvegica																						
Potentilla simplex																						
Potentilla tridentata																						
Prenanthes alba	✓								✓		✓	✓	✓					✓			5	25
Primula mistassinaca																						
Prunella vulgaris																						
Prunus pumila																						
Pteretis pensylvanica																						
Pteridium aquilinum	✓			✓				✓											✓		3	15
Pyrola asarifolia	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	17	85
Pyrola elliptica	✓				✓																1	5
Pyrola grandiflora																						
Pyrola minor																						
Pyrola rotundifolia																						
Pyrola secunda	✓			✓				✓											✓		3	15
Pyrola virens																						
Pyrus floribunda																						
Pyrus melanocarpa																						
Ranunculus abortivus																						
Ranunculus acris	✓																					1
Ranunculus pensylvanicus																						
Ranunculus recurvatus																						
Ranunculus repens																						
Ranunculus septentrionalis																						
Rhamnus alnifolia																						
Rhus glabra																						
Rhus radicans																						
Rhus typhina																						
Rhus vernix																						
Ribes americanum																						
Ribes cynosbati																						
Ribes glandulosum																						
Ribes hirtellum																						
Ribes lacustre																						
Ribes oxycanthoides																						
Ribes triste	✓									✓					✓						2	10
Rosa sp.	✓							✓		✓	✓	✓		✓	✓			✓	✓	✓	9	45
Rubus allegheniensis																						
Rubus idaeus	✓																					1
Rubus hispidus																						
Rubus odoratus																						
Rubus parviflorus	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓		✓	✓	✓			✓	✓	12	60
Rubus pubescens	✓	✓	✓	✓	✓		✓		✓		✓		✓	✓	✓		✓	✓	✓	✓	14	70
Rubus (blackberry)																						

[illegible]

	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
<i>Trifolium pratense</i>																							
<i>Trifolium repens</i>																							
<i>Trillium cernuum</i>	✓															✓						1	5
<i>Trillium erectum</i>																							
<i>Trillium grandiflorum</i>																							
<i>Trillium undulatum</i>																							
<i>Uvularia grandiflora</i>																							
<i>Uvularia sessilifolia</i>																							
<i>Vaccinium angustifolium</i>																							
<i>Vaccinium cespitosum</i>																							
<i>Vaccinium corymbosum</i>																							
<i>Vaccinium myrtilloides</i>																							
<i>Vaccinium ovalifolium</i>																							
<i>Vaccinium uliginosum</i>																							
<i>Vaccinium vitis-idaea</i>																							
<i>Veronica officinalis</i>																							
<i>Veronica scutellata</i>																							
<i>Veronica serpyllifolia</i>																							
<i>Viburnum acerifolium</i>																							
<i>Viburnum alnifolium</i>																							
<i>Viburnum cassinoides</i>																							
<i>Viburnum edule</i>																							
<i>Viburnum lentago</i>	✓											✓	✓									2	10
<i>Viburnum rafinesquianum</i>	✓																✓					1	5
<i>Viburnum trilobum</i>	✓																✓					1	5
<i>Vicia americana</i>	✓												✓									1	5
<i>Viola adunca</i>																							
<i>Viola blanda</i>																							
<i>Viola canadensis</i>																							
<i>Viola conspersa</i>																							
<i>Viola cucullata</i>																							
<i>Viola incognita</i>	✓										✓											1	5
<i>Viola nephrophylla</i>																							
<i>Viola pallens</i>																							
<i>Viola papilionacea</i>																							
<i>Viola pubescens</i>	✓																						1
<i>Viola renifolia</i>	✓		✓		✓	✓	✓	✓			✓	✓		✓	✓		✓	✓		✓	✓	13	65
<i>Viola selkirkii</i>																							
<i>Viola sororia</i>																							
<i>Vitis riparia</i>																							
<i>Waldsteinia fragarioides</i>																							
<i>Woodsia ilvensis</i>																							
<i>Xanthoxylum americanum</i>																							
Tree Seedlings																							
<i>Abies balsamea</i>	✓	✓	✓		✓		✓	✓	✓			✓		✓	✓		✓	✓		✓	✓	13	65
<i>Acer pensylvanicum</i>																							
<i>Acer rubrum</i>																							
<i>Acer saccharum</i>																							
<i>Acer spicatum</i>	✓					✓		✓				✓					✓			✓		5	25

	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Amelanchier spp.	✓			✓	✓			✓													✓	4	20	
Betula lutea																								
Betula papyrifera	✓				✓																✓	2	10	
Carpinus caroliniana																								
Crataegus spp.																								
Fagus grandifolia																								
Fraxinus americana																								
Fraxinus nigra	✓	✓		✓									✓				✓	✓					5	25
Fraxinus pennsylvanicum																								
Larix laricina																								
Ostrya virginiana																								
Picea glauca	✓	✓															✓	✓					3	15
Picea mariana																								
Pinus banksiana																								
Pinus resinosa																								
Pinus strobus																								
Populus balsamifera																								
Populus grandidentata																								
Populus tremuloides																								
Prunus nigra																								
Prunus pensylvanica																								
Prunus serotina																								
Prunus virginiana	✓		✓		✓		✓	✓	✓		✓	✓	✓								✓	9	45	
Pyrus americana	✓				✓																	1	5	
Pyrus decora																								
Quercus rubra																								
Thuja occidentalis																								
Tilia americana																								
Tsuga canadensis																								
Ulmus americana																								
Ulmus rubra																								
Ulmus thomasi																								
Grasses spp	✓	✓	✓	✓	✓					✓								✓		✓		7	35	

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 67

TREES

~~A~~bies balsamea
~~A~~cer pensylvanicum
~~A~~cer rubrum
~~A~~cer saccharum
~~A~~cer spicatum
~~A~~melanchier spp.
~~B~~etula lutea
~~B~~etula papyrifera
~~C~~arpinus caroliniana
~~C~~rataegus spp.
~~F~~agus grandifolia
~~F~~raxinus americana

~~F~~raxinus nigra
~~F~~raxinus pennsylvanicum
~~L~~arix laricina
~~O~~strya virginiana
~~P~~icea glauca
~~P~~icea mariana
~~P~~inus banksiana
~~P~~inus resinosa
~~P~~inus strobus
~~P~~opulus balsamifera
~~P~~opulus grandidentata
~~P~~opulus tremuloides

~~P~~runus nigra
~~P~~runus pensylvanica
~~P~~runus serotina
~~P~~runus virginiana
~~P~~yrus americana
~~P~~yrus decora
~~Q~~uercus rubra var. borealis
~~T~~huja occidentalis
~~T~~ilia americana
~~T~~suga canadensis
~~U~~lmus americana
~~U~~lmus rubra

SHRUBS

~~A~~lnus crispa
~~A~~lnus rugosa
~~A~~rcostaphylos uva-ursi
~~C~~elastrus scandens
~~C~~hamaedaphne calyculata
~~C~~omptonia peregrina
~~C~~ornus alternifolia
~~C~~ornus racemosa
~~C~~ornus rugosa
~~C~~ornus stolonifera
~~C~~orylus americana
~~C~~orylus cornuta
~~D~~iervilla lonicera
~~D~~irca palustris
~~E~~mpetrum nigrum
~~G~~aylussaccia baccata
~~H~~amamelis virginiana
~~I~~lex verticillata
~~J~~uniperus communis
~~J~~uniperus horizontalis
~~L~~edum groenlandicum
~~L~~onicera canadensis
~~L~~onicera dioica

~~L~~onicera hirsutum
~~L~~onicera involucrata
~~L~~onicera oblongifolia
~~L~~onicera villosa
~~P~~arthenocissus quinquefolia
~~P~~arthenocissus vitacea
~~P~~runus pumila
~~P~~yrus melanocarpa
~~R~~hamnus alnifolia
~~R~~hus glabra
~~R~~hus typhina
~~R~~ibes americanum
~~R~~ibes cynosbati
~~R~~ibes glandulosum
~~R~~ibes hirtellum
~~R~~ibes lacustre
~~R~~ibes oxycanthoides
~~R~~ibes triste
~~R~~osa sp.
~~R~~ubus allegheniensis
~~R~~ubus (blackberry)
~~R~~ubus (dewberry)
~~R~~ubus (raspberry)

~~R~~ubus idaeus
~~R~~ubus parviflorus
~~S~~alix sp.
~~S~~ambucus canadensis
~~S~~ambucus pubens
~~S~~hepherdia canadensis
~~S~~milax tamnoides var. hispida
~~S~~piraea alba
~~S~~piraea latifolia
~~S~~ymphoricarpos albus
~~S~~ymphoricarpos occidentalis
~~T~~axus canadensis
~~V~~accinium angustifolium
~~V~~accinium myrtilloides
~~V~~accinium vitis-idaea
~~V~~iburnum acerifolium
~~V~~iburnum cassinoides
~~V~~iburnum edule
~~V~~iburnum lentago
~~V~~iburnum rafinesquianum
~~V~~iburnum trilobum
~~V~~itis vulpina
~~Z~~anthoxylum americanum

HERBS

~~A~~chillea millefolium
~~A~~ctaea pachypoda
~~A~~ctaea rubra
~~A~~diantum pedatum
~~A~~grimonia gryposepala
~~A~~grostis perennans
~~A~~llium tricoccum
~~A~~mphicarpa bracteata
~~A~~naphlis margaritacea
~~A~~nemone canadensis
~~A~~nemone cylindrica
~~A~~nemone quinquefolia
~~A~~nemone virginiana
~~A~~ntennaria sp.
~~A~~pocynum androsaemifolium
~~A~~aquilegia canadensis
~~A~~ralia nudicaulis
~~A~~ralia racemosa
~~A~~risaema atrorubens
~~A~~sarum canadense
~~A~~sclepias exaltata
~~A~~ster furcatus
~~A~~ster macrophyllus
~~A~~ster nova-angliae
~~A~~ster paniculatus

~~A~~ster puniceus
~~A~~ster sagittifolius
~~A~~ster umbellatus
~~A~~thyrium filix-femina
~~A~~thyrium thelypteroides
~~B~~otrychium lunaria
~~B~~otrychium matricariaefolium
~~B~~otrychium multifidum
~~B~~otrychium virginianum
~~C~~alypso bulbosa
~~C~~ampanula rotundifolia
~~C~~arex arctata
~~C~~arex intumescens
~~C~~arex pensylvanica
~~C~~arex woodii
~~C~~arex spp.
~~C~~himaphila umbellata
~~C~~hrysanthemum leucanthemum
~~C~~hrysosplenium americanum
~~C~~inna latifolia
~~C~~ircaea alpina
~~C~~laytonia caroliniana
~~C~~laytonia virginiana
~~C~~lematis virginiana
~~C~~lematis verticillaris

~~C~~lintonia borealis
~~C~~omandra richardsiana
~~C~~omandra umbellata
~~C~~optis groenlandicum
~~C~~orallorhiza maculata
~~C~~orallorhiza striata
~~C~~orallorhiza trifida
~~C~~ornus canadensis
~~C~~orydalis sempervirens
~~C~~ynoglossum officinale
~~C~~ypripedium acaule
~~C~~ypripedium calceolus var. pubescens
~~C~~ystopteris fragilis
~~D~~alibarda repens
~~D~~esmodium glutinosum
~~D~~icentra canadensis
~~D~~icentra cucullaria
~~D~~ryopteris cristata
~~D~~ryopteris disjuncta
~~D~~ryopteris goldiana
~~D~~ryopteris marginalis
~~D~~ryopteris phegopteris
~~D~~ryopteris spinulosa

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

S-67

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
Oncoclea 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
Mertensia paniculata
Brassica spp.
Lathyrus - purple - *Vicia amez.*
Juncus effusus = *Luzula acuminata*
Equisetum arvense v *borealis*
Carex pedunculata
Lilium michiganense sl
Helianthus sp.

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 670

TREE SEEDLINGS

876421 *Abies balsamea*
Acer pensylvanicum
Acer rubrum
Acer saccharum
 75 *Acer spicatum*
Betula lutea
 4 *Betula papyrifera*
 743 *Amelanchier*

Fagus grandifolia
Larix laricina
Ostrya virginiana
 1 *Picea glauca*
Picea mariana
Pinus banksiana
Pinus resinosa
 31 *Max mrg seedling*

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
 6432 *Corylus cornuta*
 0731 *Diervilla lonicera*
Dirca palustris
Ilex verticillata
Ledum groenlandicum
 5 *Lonicera canadensis*
 983 *Cornus rugosa*
 9 *Lonicera oblongifolia*

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

HERBS

Actaea pachypoda
 1 *Actaea rubra*
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
 87654321 *Anemone quinquefolia* 0
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
 498 *Aquilegia canadensis*
 87654321 *Aralia nudicaulis*
Arisaema atrorubens
 87654321 *Aster macrophyllus* 90
Athyrium filix-femina
 7 *Botrychium virginianum*
Carex pensylvanica
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
Clintonia borealis
Coptis groenlandicum
Corallorhiza maculata
 73 *Cornus canadensis*
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
 04 *Equisetum sylvaticum*
Erythronium americanum
Fragaria vesca
 087531 *Fragaria virginiana*
Galium aparine
 0942 *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
 08543 *Maianthemum canadense*
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

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

087642 *Prunus org*

09765421 *Rubus parviflorus*
Sambucus pubens
Shepherdia canadensis
Spiraea alba
Symphoricarpos occidentalis
Taxus canadensis
Vaccinium angustifolium
Vaccinium myrtilloides
Viburnum acerifolium
Viburnum trilobum

09863 *Mitella nuda*
Monotropa uniflora
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
 9 *Prenanthes alba*
 83 *Pteridium aquilinum*
 4 *Pyrola elliptica*
Pyrola rotundifolia
 73 *Pyrola secunda*
Ranunculus acris
Rhus radicans
 864321 *Rubus pubescens*
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
 2 *Streptopus roseus*
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
 076542 *Viola renifolia*
Waldsteinia fragarioides
 0 *Viola incognita*

Additional species

Maple 12-34 56890
Hickory 2345
Populus asarifolia 12-34 567890
Sorbus 12349
Sambucus mar 24790
Pistia palm 230
Viola renifolia 245670
Lathyrus velv 367
Viola acuminata 3

Mertensia pan. 5679
Equisetum arvense 9
Carex pedunc 9

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 67 (2)

TREE SEEDLINGS

0976431 *Abies balsamea*
Acer pensylvanicum
Acer rubrum
Acer saccharum
 961 *Acer spicatum*
Betula lutea
 0 *Betula papyrifera*
 0 *Amelanchier*

Fagus grandifolia
Larix laricina
Ostrya virginiana
 65 *Picea glauca*
Picea mariana
Pinus banksiana
Pinus resinosa
 762 *Prunus nigra*

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

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
 08432 *Corylus cornuta*
 7 *Diervilla lonicera*
Dirca palustris
Ilex verticillata
Ledum groenlandicum

Prunus pumila
Pyrus melanocarpa
Ribes cynosbati
Ribes glandulosum
Ribes lacustre

0641 *Rubus parviflorus*
Sambucus pubens
Shepherdia canadensis
Spiraea alba
Symphoricarpos occidentalis
Taxus canadensis
Vaccinium angustifolium
Vaccinium myrtilloides
Viburnum acerifolium

86 *Lonicera canadensis*
 9862 *Cornus rugosa*
 84 *Lonicera hirsuta*

0875421 *Rosa* sp.
Rubus (blackberry)
Rubus (dewberry)
Rubus (raspberry)
Rubus idaeus
 5 *Ribes* ~~triste~~

5 *Viburnum trilobum*
 5 *Saxifraga* sp.
 6 *Viburnum rafinesquianum*

HERBS

Actaea pachypoda
 08 *Actaea rubra*
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
 0986421 *Anemone quinquefolia*
Anemone virginiana
Antennaria spp.
 3 *Apocynum androsaemifolium*
 744 *Aquilegia canadensis*
 0986421 *Aralia nudicaulis*
Arisaema atrorubens
 7654321 *Aster macrophyllus* 890
Athyrium filix-femina
Botrychium virginianum
 6 *Carex pensylvanica*
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
 0 *Clintonia borealis*
Coptis groenlandicum
Corallorhiza maculata
 08763 *Cornus canadensis*
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
 1 *Equisetum sylvaticum*
Erythronium americanum
Fragaria vesca
 0987531 *Fragaria virginiana*
Galium aparine
 09873 *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
Lycopodium lucidulum
Lycopodium obscurum

0864324 *Mitella nuda*
Monotropa uniflora
 0 *Osmorhiza claytoni*
Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
 7321 *Prenanthes alba*
 9 *Pteridium aquilinum*
Pyrola elliptica
Pyrola rotundifolia
 8 *Pyrola secunda*
Ranunculus acris
Rhus radicans

09875431 *Rubus pubescens*
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata

086 *Streptopus roseus*
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides

0976431 *Viola renifolia*
Trillium cernuum
Gnaphalium sp. 79.
Corallorhiza striata 9
Carex acutata 0

Additional species

Mazus 123457890
Viburnum lentago 12
Sanicula mar 123560
Banasetum arvense 1235
Lathyrus blue 2 *Vicia americana*

Lathyrus ochroleucus 23
Lysimachia ciliata 27
Pyrola asarifolia 3467890
Mertensia panic 568