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Site 6064 (Boreal Stand 64): Winneboujou Club - Brule, Douglas County, Township 47N, Range 10W, Section 34. 1956-05-26

[s.l.]: [s.n.], 1956-05-26

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STAND RECORD

FORESTS

Stand No. 64

Name: *Winnaboway Club - Brule*County: *Douglas*Date: *May 26, 1956*Size of Stand *80 acres*Forest Type: *Wp-Rp-Ab-Us*

Topography:

slight rolling

Locality:

T: *47N*R: *10W*Sec: *34 E 1/2**25 yd. intervals*

Observers:

PFM

Size of Area Sampled:

Soil Type: *Sandy loam*

Slope:

Directions

slight slope to west -

Condition of Stand:

*True virgin stand - never touched**Dry - Mesic**Some blowdown in centre - salvaged - disregarded**Noway, w pine over 100' + being longer lived than spruce are lasting whereas spruce is beginning to thin out. Balsam because of shade tolerance appears to be holding its own*

Open Crown 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	V.H.C.
A ₀									
A ₁									
A ₂									
B									

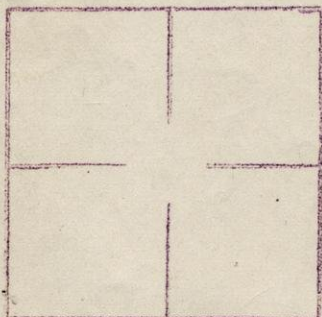
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	<i>1 1/2" needles</i>	<i>2" needles</i>	<i>2-3" needles - leaves</i>
A ₁	<i>1-2" humus - black</i>	<i>1" black humus</i>	<i>2-3" humus - black</i>
A ₂	<i>3" ashy grey</i>	<i>4-6" ashy grey</i>	<i>2" leached ashy grey</i>
B	<i>reddish brown sand</i>	<i>reddish brown sand</i>	<i>reddish brown sand</i>

Parent Material:

Map:

*Presence list in May 26, 1956**Data collected - July 3, 1956**Heavy needle litter 1-2"**Sap from blowdown full of balsam reprod**Dry - Mesic Site**Large Wp present 1050 sqm BA (BH) or 9'7" around BH*

TREE DATA SUMMARY SHEET

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

Station Number: 64

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	25	41				1337	85	53.1		62.5	22.8	25.6	11.0	59.4	
Acer rubru							8	5.0							
A. sacchar															
A. spicatu															
Betula lut															
B. papyrif	6	6				286	8	5.0		15.0	5.4	3.8	2.3	11.5	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau	8	9				1013	4	2.5		20.0	7.3	5.6	8.3	21.2	
Pinus Bank	23	33				2403				57.5	20.9	20.6	19.7	61.2	
P. resinosa	19	27				3078	19	11.9		47.5	17.3	16.9	25.2	59.4	
P. Strobus	25	39				3783	31	19.4		62.5	22.7	24.4	31.0	78.1	
Populus ba															
P. grandid	2	3				187				5.0	1.8	1.9	1.5	5.2	
P. tremulo	1	1				82				2.5	0.9	0.6	0.7	2.2	
Prunus pen							1	0.6							
Quercus el															
Q. rubra	1	1				34	1	0.6		2.5	0.9	0.6	0.3	1.8	
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Prunus virg.							1	0.6							
Amelanchier sp.							2	1.3							
TOTALS	110	160				12,203	160	100.0		275.0	100.0	100.0	100.0	300.0	

AVE. DIST. BTW'N TREES:

8.9

AVE. B. A.:

76.3

TREES/ACRE:

550

DOM./ACRE:

41,965

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 44(1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam					4 1/2 24 6 43		11 1/2 24	10 26 13 20		15 28
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lnt.										
B. papyrif							4 36	5 14		
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	6 35									8 65
Pinus Bank	6 35	19 59 9 149	6 74 12 105	5 95 1 1/2 83	2 148	9 45	23 70		15 56	3 1/2 59 3 1/2 30
P. resinosa	8 1/2 55 8 58	4 15 3 16	13 1/2 29 19 610							
P. Strobus		5 1/2 20		5 1/2 25 9 41	14 30	15 38 12 1/2 65	7 1/2 52	15 85	6 100 19 70	
Populus bals									19 42	
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Canopy	55	35	40	35	55	25	60	70	35	15
Litter	1 1/2	1	1 1/2	1 1/2	2	1 1/2	1	1	2	1
Distance	28 1/2	35	50 1/2	21	26 1/2	42	46	43	49	29 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 64(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam		11 35		18 70 15 20 10 1/2 19	6 35 10 1/2 70		4 19 8 22		5 31	1 21
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lnt.										
B. papyrif							11 1/2 55			
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	15 50			7 140						
Pinus Bank	2 1/2 50 8 1/2 38	3 1/2 80				3 1/2 107			3 62 5 55	7 1/2 114
P. resinosa	8 1/2 560	3 30 16 89	16 84			120 46 15 52				
P. Strobus			7 36 10 1/2 40 11 85		3 26	4 1/2 80	9 100	9 1/2 110 14 70	4 20 8 29	7 1/2 121
Populus bals										
P. grand								5 105 13 60		
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra					8 34					
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Canopy	35	45	40	15	55	60	65	40	45	80
Little	1 1/2	1	1/2	1/2	2	2 1/2	1 1/2	1	1	1 1/2
Distance	34 1/2	33 1/2	44 1/2	50 1/2	27 1/2	43	32 1/2	41 1/2	17	24

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 4(3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	7 36		3 44 11 28	14 1/2 19	2 40 6 20	14 1/2	14 1/2 24 1 1/2 16	7 1/2 50	6 38	2 65 4 29
Acer rubrum			2 1/2 22 10 26		11 15		1 5 31			
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif						8 1/2 42				
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	15 71				15 18				3 42 13 30	
Pinus Bank	3 1/2 46	8 1/2 44						9 95		5 49 6 30
P. resinosa		10 88		10 1/2 75		12 1/2 200			2 40	
P. Strobus	3 40	13 113 12 40		6 580 16 34		9 1/2 35 14 1/2 20	13 55	1 1/2 64		
Populus bals										
P. grand								24 72		
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Canopy	40	20	70	60	30	25	75	65	70	75
Stems	1	2	3 1/4	1 1/2	1/2	1"	1	1 1/4	1 1/2	3
Distance	28 1/2	43 1/2	26 1/2	47	38	45	34	42	24	17

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 64 (4)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	8. 22	11 33 11 18	4 40	4 50	6 64			5 26 5 20		4 40
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif		4 53							8 76	
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau				6 1/2 135	11 112					
Pinus Bank	8. 18					13 68 7 1/2 90	10 1/2 85 3 70	15 51	20 40	9 147
P. resinosa	7 1/2 100 7 1/2 160		19 80		4 130	14 1/2 34	23 88	3 85	7 1/2 20	2 65 7 110
P. Strobus		13 152	12 1/2 100 10 69	7 1/2 108 11 43		5 62	7 40		6 104	
Populus bals										
P. grand										
P. trem					13 1/2 82					
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Canopy	60	40	75	60	65	70	45	85	30	65
Litter	2 1/2	1 1/2	1	1 1/2	2	1 1/2	2	1	1	2
Distance	30 1/2	39	45 1/2	29	34 1/2	40	43 1/2	28	41 1/2	22

Av. Canopy - 51%

Av. Litter 1.4"

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 64(1) SPLINGS

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	10 1/2	9 25	17	8 3	5	10 14	13 3	21 10	13 20	4 17
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif							21	8 1/2		
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										25
Pinus Bank										
P. resinosa	10 3	18 2	16 9							
P. Strobus	9		10 1/2	14 4	13 7	11	14		10 1/2 26	22
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Amelanchier						16				
Distance	32 1/2	54	52 1/2	29	36	54	60	49	69 1/2	68

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 64(2) SAPLING

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	21	40 39	15	22	7 8	13 3	29 22	8 14	22 19	5 25 21 12
Acer rubrum				18			15 16			
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif	19							24		
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau				20						
Pinus Bank										
P. resinosa	6 14	11 1/2	12							
P. Strobus		21	10 10			9				
Populus bals										
P. grand										
P. trem										
Prunus pen.						4				
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Amelanchier				25						
Distance	60	111 1/2	47	85	31	64	53	89	60 1/2	59 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 64(3) SAPPING

STATION NO.	1	2	3	4	5	6	7	8	9	10		
Abies balsam	12 23	20 11	13 11	8 1/2 7	5 16	11 28	19 34	10 1/2 12 1/2	28 17	6 17	4 23	7 1/2 10
Acer rubrum												14
A. sacchar.												
A. spicatum												
Betula lut.												
B. papyrif												
Carpinus car												
Fagus gran												
Ostrya virg												
Picea glau				11				6				
Pinus Bank												
P. resinosa						9			19			
P. Strobus	9	5 10		11		11 1/2						
Populus bals												
P. grand												
P. trem												
Prunus pen.												
Quercus ell												
Q. rubra							7					
Tilia amer												
Tsuga can												
Thuja occ												
Ulmus amer												
U. fulva												
Paumotu ring							12					
Distance	49	46	39 1/2	70	60	73 1/2	42	61	25	35 1/2		

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 64(4)SAPLING

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam		30 22	7		11 1/2 8	2 14	31 18	11 1/2	15 16	13
Acer rubrum		22	9 1/2 14	30						
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif	31		6	19						
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa						5	8 1/2 8 1/2	9 1/2		13 16
P. Strobus	5 2	6		35 14 1/2	21 12			7 1/4	16	18
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Distance	11.	80.	36 1/2	98 1/2	52 1/2	47	66.	42.	65.	56.

[illegible]

[illegible]

University of Wisconsin
STAND NO. 64

	P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
	SPRING	SUMMER																					
Desmodium glutinosum																							
Dicentra canadensis																							
Dicentra cucullaria																							
Diervilla lonicera	✓			✓										✓		✓					✓	4	20
Dirca palustris																							
Dryopteris boottii																							
Dryopteris cristata																							
Dryopteris disjuncta																							
Dryopteris goldiana																							
Dryopteris marginalis																							
Dryopteris noveboracensis																							
Dryopteris phegopteris																							
Dryopteris spinulosa	✓																						1
Empetrum nigrum																							
Epifagus virginiana																							
Epigaea repens	✓	✓																					1
Epilobium angustifolium																							
Epilobium glandulosum																							
Epilobium strictum																							
Equisetum arvense																							
Equisetum pratense																							
Equisetum scirpoides																							
Equisetum sylvaticum																							
Erigeron annuus																							
Erigeron philadelphicus																							
Erigeron strigosus																							
Erythronium albidum																							
Erythronium americanum																							
Eupatorium maculatum																							
Eupatorium perfoliatum																							
Eupatorium purpureum																							
Fagopyrum sagittatum																							
Festuca obtusa																							
Fragaria vesca																							
Fragaria virginiana	✓	✓						✓								✓		✓				3	15
Galium aparine																							
Galium asprellum																							
Galium boreale																							
Galium concinnum																							
Galium lanceolatum																							
Galium triflorum	✓	✓	✓																			1	5
Gaultheria hispidula																							
Gaultheria procumbens	✓	✓																					1
Gaylussacia baccata																							
Gentiana andrewsii																							
Gentiana crinata																							
Gentiana linearis																							
Gentiana quinquefolia																							
Geocaulon lividum																							
Geranium bicknelli																							
Geranium maculatum																							
Geranium robertianum																							

[illegible]

[illegible]

Data Form No. 84f
TABULATION FORM

Plant Ecology Research
SPRUCE - FIR, SPRUCE - FIR MIXED HARDWOODS

University of Wisconsin
STAND NO. 64

[illegible]

	P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SPRING	SUMMER																						
Rubus (dewberry)																							
Rubus (raspberry)																							
Rumex acetosella																							
Salix spp.																							
Sambucus canadensis																							
Sambucus pubens																							
Sanguinaria canadensis																							
Sanicula gregaria																							
Sanicula marilandica	✓	✓	✓						✓									✓				3	15
Satureja vulgaris																							
Saxifraga pensylvanica																							
Schizachne purpurascens																							
Scutellaria epilobiifolia																							
Scutellaria lateriflora																							
Senecio aureus																							
Shepherdia canadensis																							
Sium suave																							
Smilacina racemosa	✓																						1
Smilacina stellata																							
Smilacina trifolia																							
Smilax herbacea																							
Smilax tamnoides var hispida																							
Spiranthes gracilis																							
Spiranthes romanzoffiana																							
Solidago canadensis																							
Solidago flexicaulis																							
Solidago gigantea																							
Solidago graminifolia																							
Solidago hispida	✓																						1
Solidago juncea																							
Solidago lepida																							
Solidago macrophylla																							
Solidago rugosa																							
Solidago ulmifolia	✓																						1
Spiraea alba																							
Spiraea latifolia																							
Stachys palustris																							
Stellaria calycantha																							
Stellaria longifolia																							
Stellaria palustris																							
Streptopus amplexifolius																							
Streptopus roseus	✓																						1
Symphoricarpos albus																							
Symphoricarpos occidentalis																							
Taraxacum officinale	✓																						1
Taxus canadensis																							
Thalictrum dasycarpum																							
Thalictrum dioicum																							
Thalictrum polygamum																							
Tiarella cordifolia																							
Trientalis borealis	✓	✓				✓	✓					✓	✓		✓		✓				✓	7	35
Trifolium hybridum																							

[illegible]

[illegible]

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 64

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* *sapling*
 ✓ *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 oxycanthoides
Ribes triste
Rosa sp.
Rubus allegheniensis
Rubus (blackberry)
Rubus (dewberry)
Rubus (raspberry)

Rubus idaeus
Rubus parviflorus
Salix sp.
Sambucus canadensis
Sambucus pubens
Shepherdia canadensis
Smilax tamnoides var. *hispida*
Spiraea alba
Spiraea latifolia
Symphoricarpos albus
Symphoricarpos occidentalis
Taxus canadensis
 ✓ *Vaccinium angustifolium*
 ✓ *Vaccinium myrtilloides*
Vaccinium vitis-idaea
Viburnum acerifolium
Viburnum cassinoides
Viburnum edule
Viburnum lentago
Viburnum rafinesquianum
Viburnum trilobum
Vitis vulpina
Zanthoxylum americanum

HERBS

Achillea millefolium
Actaea pachypoda
Actaea rubra
Adiantum pedatum
Agrimonia gryposepala
Agrostis perennans
Allium tricoccum
Amphicarpa bracteata
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

May 26, 1956

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

S-64

✓ *Epigaea repens* f
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* f
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* f
Vicia americana
Viola adunca
Viola blanda
Viola canadensis
Viola conspersa
Viola cucullata
 ✓ *Viola incognita* f
Viola nephrophylla
Viola pallens
Viola papilionacea
Viola pubescens
Viola renifolia
Viola selkirkii
Viola sororia
 ✓ *Waldsteinia fragarioides* f

Additional species

Oryzopsis asperifolia f
 species like *Pedicularis canadensis*
 Tall herb black under spots - vegetative *Anemone quinquefolia*
Luzula acuminata
 Lichens
 Mosses

f flowering

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 64

TREES

✓ *Abies balsamea*
Acer pensylvanicum
 ✓ *Acer rubrum*
Acer saccharum
 ✓ *Acer spicatum*
 ✓ *Amelanchier* spp.
Betula lutea
 ✓ *Betula papyrifera*
Carpinus caroliniana
Crataegus spp.
Fagus grandifolia
Fraxinus americana

Fraxinus nigra
Fraxinus pennsylvanicum
Larix laricina
Ostrya virginiana
 ✓ *Picea glauca*
Picea mariana
 ✓ *Pinus banksiana*
 ✓ *Pinus resinosa*
 ✓ *Pinus strobus*
Populus balsamifera
 ✓ *Populus grandidentata*
 ✓ *Populus tremuloides*

Prunus nigra
 ✓ *Prunus pensylvanica*
Prunus serotina
 ✓ *Prunus virginiana*
 ✓ *Pyrus americana*
Pyrus decora
 ✓ *Quercus rubra* var. *borealis*
Thuja occidentalis
 ✓ *Tilia americana* *seedling*
Tsuga canadensis
Ulmus americana
Ulmus rubra

SHRUBS

Alnus crispa
Alnus rugosa
Arctostaphylos uva-ursi
Celastrus scandens
Chamaedaphne calyculata
Comptonia peregrina
Cornus alternifolia
Cornus racemosa
 ✓ *Cornus rugosa*
Cornus stolonifera
Corylus americana
 ✓ *Corylus cornuta*
 ✓ *Diervilla lonicera*
Dirca palustris
Empetrum nigrum
Gaylussaccia baccata
Hamamelis virginiana
Ilex verticillata
Juniperus communis
Juniperus horizontalis
Ledum groenlandicum
 ✓ *Lonicera canadensis*
Lonicera dioica

✓ *Lonicera hirsutum*
Lonicera involucrata
Lonicera oblongifolia
Lonicera villosa
Parthenocissus quinquefolia
Parthenocissus vitacea
Prunus pumila
Pyrus melanocarpa
Rhamnus alnifolia
Rhus glabra
Rhus typhina
Ribes americanum
 ✓ *Ribes cynosbati*
Ribes glandulosum
Ribes hirtellum
Ribes lacustre
Ribes oxycanthoides
Ribes triste
 ✓ *Rosa* sp.
Rubus allegheniensis
 ✓ *Rubus* (blackberry)
 ✓ *Rubus* (dewberry)
 ✓ *Rubus* (raspberry)

✓ *Rubus idaeus*
Rubus parviflorus
Salix sp.
Sambucus canadensis
Sambucus pubens
Shepherdia canadensis
Smilax tamnoides var. *hispida*
Spiraea alba
Spiraea latifolia
Symphoricarpos albus
Symphoricarpos occidentalis
Taxus canadensis
 ✓ *Vaccinium angustifolium*
 ✓ *Vaccinium myrtilloides*
Vaccinium vitis-idaea
Viburnum acerifolium
Viburnum cassinoides
Viburnum edule
Viburnum lentago
Viburnum rafinesquianum
 ✓ *Viburnum trilobum*
Vitis vulpina
Zanthoxylum americanum

HERBS

Achillea millefolium
Actaea pachypoda
 ✓ *Actaea rubra*
Adiantum pedatum
Agrimonia gryposepala
Agrostis perennans
Allium tricoccum
Amphicarpa bracteata
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

S-64

~~Epigaea repens~~
~~Epilobium angustifolium~~
~~Epilobium glandulosum~~
~~Epilobium strictum~~
~~Equisetum pratense~~
~~Equisetum sylvaticum~~
~~Erigeron annuus~~
~~Erigeron philadelphicus~~
~~Erigeron strigosus~~
~~Erythronium albidum~~
~~Erythronium americanum~~
~~Fragaria vesca~~
~~Fragaria virginiana~~
~~Galium aparine~~
~~Galium boreale~~
~~Galium concinnum~~
~~Galium lanceolatum~~
~~Galium triflorum~~
~~Gaultheria hispidula~~
~~Gaultheria procumbens~~
~~Gentiana andrewsii~~
~~Gentiana crinata~~
~~Gentiana quinquefolia~~
~~Geocaulon lividum~~
~~Geranium bicknellii~~
~~Geranium maculatum~~
~~Geum rivale~~
~~Goodyera repens~~
~~Goodyera tessellata~~
~~Habenaria hyperborea~~
~~Habenaria orbiculata~~
~~Habenaria psycodes~~
~~Habenaria viridis~~
~~Halenia deflexa~~
~~Helianthus strumosus~~
~~Hepatica acutiloba~~
~~Hepatica americanum~~
~~Hieracium aurantiacum~~
~~Hieracium canadense~~
~~Hieracium scabrum~~
~~Impatiens capensis~~
~~Iris lacustris~~
~~Isopyrum biternatum~~
~~Lathyrus ochroleucus~~
~~Linnaea borealis~~
~~Lobelia inflata~~
~~Lycopodium annotinum~~
~~Lycopodium clavatum~~
~~Lycopodium clavatum var. megastachyon~~
~~Lycopodium complanatum~~
~~Lycopodium inundatum~~

~~Lycopodium lucidulum~~
~~Lycopodium obscurum~~
~~Lycopodium obscurum var. dendroideum~~
~~Lycopodium selago~~
~~Lycopodium tristachyum~~
~~Lysimachia ciliata~~
~~Lysimachia quadrifolia~~
~~Lysimachia terrestris~~
~~Maianthemum canadense~~
~~Malaxis unifolia~~
~~Medeola virginiana~~
~~Melampyrum lineare~~
~~Mitchella repens~~
~~Mitella diphylla~~
~~Mitella nuda~~
~~Moneses uniflora~~
~~Monotropa hypopithys~~
~~Monotropa uniflorus~~
~~Onoclea sensibilis~~
~~Orchis spectabilis~~
~~Osmorhiza claytoni~~
~~Osmorhiza longistylis~~
~~Osmunda cinnamomea~~
~~Osmunda claytoniana~~
~~Oxalis montana~~
~~Oxalis stricta~~
~~Panax quinquefolius~~
~~Panax trifolius~~
~~Petasites palmatus~~
~~Phlox divaricata~~
~~Poa compressa~~
~~Poa pratensis~~
~~Polygala paucifolia~~
~~Polygonatum biflorum~~
~~Polygonatum pubescens~~
~~Polymnia canadensis~~
~~Polypodium virginianum~~
~~Potentilla norvegica~~
~~Potentilla simplex~~
~~Potentilla tridentata~~
~~Prenanthes alba~~
~~Primula mistassinaca~~
~~Prunella vulgaris~~
~~Pteridium aquilinum~~
~~Pyrola asarifolia~~
~~Pyrola elliptica~~
~~Pyrola minor~~
~~Pyrola rotundifolia~~
~~Pyrola secunda~~
~~Pyrola virens~~
~~Ranunculus abortivus~~

~~Ranunculus acris~~
~~Ranunculus pensylvanicus~~
~~Ranunculus recurvatus~~
~~Ranunculus repens~~
~~Ranunculus septentrionalis~~
~~Rhus radicans~~
~~Rubus pubescens~~
~~Sanguinaria canadensis~~
~~Sanicula marilandica~~
~~Satureja vulgaris~~
~~Schizachne purpurascens~~
~~Scutellaria epilobiifolia~~
~~Scutellaria lateriflora~~
~~Smilacina racemosa~~
~~Smilacina stellata~~
~~Smilacina trifolia~~
~~Smilax herbacea~~
~~Solidago canadensis~~
~~Solidago flexicaulis~~
~~Solidago graminifolia~~
~~Solidago ulmifolia~~
~~Stellaria calycantha~~
~~Streptopus amplexifolius~~
~~Streptopus roseus~~
~~Taraxacum officinale~~
~~Thalictrum dioicum~~
~~Thalictrum polygamum~~
~~Tiarella cordifolia~~
~~Trientalis borealis~~
~~Trillium cernuum~~
~~Trillium erectum~~
~~Trillium grandiflorum~~
~~Trillium undulatum~~
~~Uvularia grandiflora~~
~~Uvularia sessilifolia~~
~~Vicia americana~~
~~Viola adunca~~
~~Viola blanda~~
~~Viola canadensis~~
~~Viola conspersa~~
~~Viola cucullata~~
~~Viola incognita~~
~~Viola nephrophylla~~
~~Viola pallens~~
~~Viola papilionacea~~
~~Viola pubescens~~
~~Viola renifolia~~
~~Viola selkirkii~~
~~Viola sororia~~
~~Waldsteinia fragarioides~~

Additional species

Mosses
 Lichens
 Oryzopsis asperifolia
 Goodyera tessellata
 Pedicularis canadensis
 Solidago hispida
 Solidago ulmifolia
 Brachypodium erectum
 Cymoglossum boreale

Helianthus sp.

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 64⁽¹⁾

TREE SEEDLINGS

8765432 *Abies balsamea* 90
Acer pensylvanicum
 94 *Acer rubrum*
Acer saccharum
Acer spicatum
Betula lutea
Betula papyrifera
 6543 *Amelanchier* sp

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

6 *Pinus strobus*
 7 *Populus tremuloides*
 3 *Prunus pensylvanica*
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis
 8 *Pinus* sp

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
 8765431 *Corylus cornuta* 9
 3 *Diervilla lonicera*
Dirca palustris
Ilex verticillata
Ledum groenlandicum
Lonicera canadensis

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

Rubus parviflorus
Sambucus pubens
Shepherdia canadensis
Spiraea alba
Symphoricarpos occidentalis
Taxus canadensis
 6532 *Vaccinium angustifolium*
 3 *Vaccinium myrtilloides*
Viburnum acerifolium
Viburnum trilobum

HERBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
 9871 *Anemone quinquefolia*
Anemone virginiana
Antennaria spp.
 8 *Apocynum androsaemifolium*
Aquilegia canadensis
 0976 *Aralia nudicaulis*
Arisaema atrorubens
 9876431 *Aster macrophyllus*
Athyrium filix-femina
Botrychium virginianum
 9532 *Carex pensylvanica*
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
 94 *Clintonia borealis*
Coptis groenlandicum
Corallorhiza maculata
Cornus canadensis
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
 7 *Fragaria virginiana*
Galium aparine
 1 *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
 4 *Lycopodium obscurum*
 0987654321 *Maianthemum canadense*
Medeola virginiana
 2 *Melampyrum lineare*
 9 *Mitchella repens*
Mitella diphylla

Mitella nuda
Monotropa uniflora
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
 7 *Polygala paucifolia*
Polygonatum pubescens
 0 *Prenanthes alba*
 765421 *Pteridium aquilinum*
Pyrola elliptica
Pyrola rotundifolia
 7 *Pyrola secunda*
Ranunculus acris
Rhus radicans
Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
Streptopus roseus
Tiarella cordifolia
 54 *Trientalis borealis*
Trillium erectum
Trillium grandiflorum
 4 *Uvularia sessilifolia*
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides

Additional species

Morus 1246790
Lichen 1460
Oryzopsis asperifolia 1346789
Sambucus racemosa 18
Lysimachia quadriflora 5

Grass 7

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 64 (2)

TREE SEEDLINGS

7531 *Abies balsamea*
 65432 *Acer pensylvanicum*
Acer rubrum
Acer saccharum
Acer spicatum
Betula lutea
Betula papyrifera
 63 *Amelanchier* sp.

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

983 *Pinus strobus*
Populus tremuloides
 6 *Prunus pensylvanica*
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis
 4 *Prunus* sp.

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
 0764 *Corylus cornuta*
 053 *Diervilla lonicera*
Dirca palustris
Ilex verticillata
Ledum groenlandicum
Lonicera canadensis

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

Rubus parviflorus
Sambucus pubens
Shepherdia canadensis
Spiraea alba
Symphoricarpos occidentalis
Taxus canadensis
 0931 *Vaccinium angustifolium*
Vaccinium myrtilloides
Viburnum acerifolium
Viburnum trilobum

HERBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
 87641 *Anemone quinquefolia*
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
 7 *Aquilegia canadensis*
 9761 *Aralia nudicaulis*
Arisaema atrorubens
 0876541 *Aster macrophyllus*
Athyrium filix-femina
Botrychium virginianum
 0 *Carex pensylvanica*
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
 75321 *Clintonia borealis*
Coptis groenlandicum
Corallorhiza maculata
Cornus canadensis
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
 75 *Fragaria virginiana*
Galium aparine
Galium triflorum
Gaultheria hispidula
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
 9654 *Linnaea borealis*
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
 0987654321 *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
 0976531 *Pteridium aquilinum*
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
Streptopus roseus
Tiarella cordifolia
 06421 *Trientalis borealis*
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides

Additional species

Morus 1234567890
Lichens 124567896
Oryzopsis *aristata* 4568
Salix *arctica* 7
Samolus *maritimus*