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Site 6063 (Boreal Stand 63): Pattison State Park, Douglas County, Township 47N, Range 14W, Section 31. 1956-05-26

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

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[Site 6063]

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 63

Name: Pattison State Park

County: Douglas Co.

Date: May 26, 1956

Size of Stand 15 acres

Forest Type: Poplar-balsam

Topography:

Level

Locality: 10 mi S. Superior, Wisc.

T: 47N

R: 14 W

Sec: 31

Observers: PFM

Size of Area Sampled:

Soil Type:

Slope:

Directions

Condition of Stand:

probably Wet - Wet-Mene conditions - quite damp in spring drying as summer forest perhaps wet.
 Popple overstory, solid balsam understory, very little spruce
 Considerable evidence of natural thinning of popple.
 Presence list made May 26, 1956

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	W.H.C.
A ₀									
A ₁									
A ₂									
B									

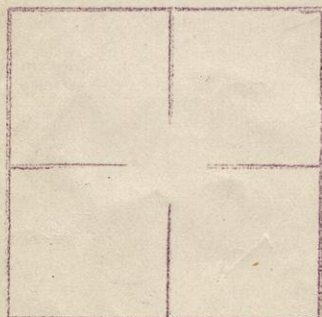
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	3/4" mainly leaves, few needles	1/4" needles, leaves	1" needles, leaves
A ₁	1-2" black	3" black	2" crumbly black
A ₂	1/2-1" leaching not visible	leaching	1" slightly leached
B	red clay	reddish black clay (some gley)	red-brown clay

Parent Material:

Map:



See stand seen to left just after turn on B.
 Meropshy cut + burned
 Stand 50-55 yrs old, Popple + Ab borel
 30 points taken

TREE DATA SUMMARY SHEET

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

Station Number: 63

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	29	61				1716	93	77.5		72.5	42.0	50.8	33.6	126.4	
Acer rubru															
A. sacchar	1	1				18	3	2.5		2.5	1.4	0.8	0.4	2.6	
A. spicatu															
Betula lut															
B. papyrif	7	9				297	5	4.2		17.5	10.1	7.5	5.8	23.4	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau	1	1				35				2.5	1.4	0.8	0.7	2.9	
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba	2	2				162				5.0	2.9	1.7	3.2	7.8	
P. grandid															
P. tremulo	23	40				2617	4	3.3		57.5	33.5	33.3	51.3	118.1	
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Frax. nig	6	6				252	15	12.5		15.0	8.7	5.1	5.0	18.8	
TOTALS	69	120				5097	120	100.0		172.5	100.0	100.0	100.0	300.0	

AVE. DIST. BTW'N TREES:

8.4

AVE. B. A.:

42.5

TREES/ACRE:

617

DOM./ACRE:

26, 223

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 6310

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	11 18 11 1/2 19	11 22 4 1/2 23	12 1/2 16 15 17	10 27 8 16	13 35 14 1/2 65	10 1/2 160 10 85	5 16 12 59	9 21	3 19 3 32	
Acer rubrum	17 1/2 15	7 19				7 76 9 92			13 27	
A. sacchar.					6' 18					
A. spicatum										
Betula lut.										
B. papyrif			9 36							
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										6 35
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals								8 29		
P. grand										
P. trem	7 31	12 40	11 1/2 60	5 90	3 118		8 1/2 87 7 1/2 35	10 66 14 1/2 55	4 45 14 78	5 34 13 67
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Frax nigra				2 30						
Canopy	20	50	10	60	70	40	50	40	55	65
Litter	1/4	1/2	1/2	1"	1/2	1/2	1"	5/4	1"	1/2
Distance	37. 3	34 1/2 10	48. 32	25 163	36 1/2 236	36 1/2 117	33 115	41 1/2 171	23 112	28 124

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 63 (2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	18 20	12 19	3 16 3 1/2 26	8 18 9 1/2 14	3 24 6 1/2 14	7 15 6 19	12 1/2 20 12 1/2 17	17 23 5 16	2 1/2 16 8 27	3 20
Acer rubrum						9 11	12 1/2 17			
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif			9 18					4 30		5 29 11 40 14 1/2 38
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem	13 62 11 1/2 27	3 1/2 70 11 38	6 31	19 35 15 62	7 1/2 58 4 110	10 141		11 166	7 1/2 101	
Prunus pen.	11 1/2 106	15 24								
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Frax nig.							4 1/2 90		8 20	
Canopy	15	45	25	5	50	15	60	15	70	70
Litter	1/4	1/2	1/4	1/2	1	1/2	1/8	1/8	1/2	1/4
Distance	54	41 1/2	21 1/2	51 1/2	21	32	33	37	26	23 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 63 (3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	9 18 9 17	5 16 4 24	13 28	10 18	5 26	12 15 7 14	14 15	5 28 4 16	8 20 7 14	12 35 13 16
Acer rubrum		13 30						6 27 8 35		14 18
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif	7 15		4 22						9 19	
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals	11 133									
P. grand										
P. trem			1 65 5 26	15 70 10 70	2 71 4 30	5 85 18 40	1 46 1 16		6 60	
Prunus pen.					9 65		8 68			
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
max mgs		4 65		3 17						15 30
Canopy	80	40	50	45	50	30	55	60	50	60
Litter	1	1	3/4	1/2	1	1/2	3/4	1 1/2	1	1
Distance	37.	27.	24.	38 1/2	20 1/2	43	28 1/2	23 1/2	31.	34

Av. canopy - 45%

Av. litter - 0.7"

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 63(1)SAPLING

STATION NO.	1	2	3	4	5	6	7	8	9	10								
Abies balsam	12 7	8 4	8 11	17 4	5 6 1/2	9 9	3 1/2 8	2 1/2 4	11 11	9 17	5 6	2 7 1/2	22 9 1/2	1 1	16 9	9 1/2 5	15 11 1/2	7
Acer rubrum																		
A. sacchar.						7		8, 8 1/2										
A. spicatum																		
Betula lut.																		
B. papyrif																	6 1/2	
Carpinus car																		
Fagus gran																		
Ostrya virg																		
Picea glau																		
Pinus Bank																		
P. resinosa																		
P. Strobus																		
Populus bals																		
P. grand																		
P. trem							5					10 1/2						
Prunus pen.																		
Quercus ell																		
Q. rubra																		
Tilia amer																		
Tsuga can																		
Thuja occ																		
Ulmus amer																		
U. fulva																		
Max mgs.				7 1/2														
Distance	31	40	28	18	46	30 1/2	25 1/2	43	39 1/2	40								

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. (36) SAPLING

STATION NO.	1	2	3	4	5	6	7	8	9	10					
Abies balsam	8	3 2	10½	11 7	11 5	8½ 10	5 4	11½ 16	6 6	17	5 7	6 3	7 4	11 7	4 6
Acer rubrum															
A. sacchar.															
A. spicatum															
Betula lut.															
B. papyrif	5		9½				8								
Carpinus car															
Fagus gran															
Ostrya virg															
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus bals															
P. grand															
P. trem										93					
Prunus pen.															
Quercus ell															
Q. rubra															
Tilia amer															
Tsuga can															
Thuja occ															
Ulmus amer															
U. fulva															
Frax nig.	8½ 3	10 3	3 8							11	9 7				
Distance	24½	18	31.	34.	27½	41½	40	28	20	28					

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 63(3) SAPLINGS

STATION NO.	1	2	3	4	5	6	7	8	9	10							
Abies balsam	4 2	8 3	1 14	4 8	16 6	4 5	4 1/2 9	6 3	3 9	4 4	6 7	1 1/2 12	7 5	10 4	7 4	4 18	4 7 1/2
Acer rubrum																	
A. sacchar.																	
A. spicatum																	
Betula lut.																	
B. papyrif							4										
Carpinus car																	
Fagus gran																	
Ostrya virg																	
Picea glau																	
Pinus Bank																	
P. resinosa																	
P. Strobus																	
Populus bals																	
P. grand																	
P. trem																	
Prunus pen.																	
Quercus ell																	
Q. rubra																	
Tilia amer																	
Tsuga can																	
Thuja occ																	
Ulmus amer																	
U. fulva																	
7 max mj				5		1 1/2	7 1/2										
Distance	17.	28.	31.	21 1/2	18.	15.	21.	25 1/2	25	33 1/2							

[illegible]

	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Carex disperma																							
Carex eburnea																							
Carex intumescens	✓	✓	✓				✓															3	20
Carex leptalea																							
Carex pedunculata	✓	✓		✓							✓		✓		✓							4	27
Carex pensylvanica	✓		✓													✓						2	13
Carex projecta																							
Carex woodii																							
Carex spp.																							
Caulophyllum thalictroides																							
Celastrus scandens																							
Chamaedaphne calyculata																							
Chimaphila umbellata																							
Chrysanthemum leucanthemum																							
Chrysosplenium americanum																							
Cicuta maculata	✓																						1
Cinna latifolia																							
Circaea alpina																							
Cirsium altissimum																							
Cirsium arvense																							
Cirsium vulgare																							
Claytonia caroliniana																							
Claytonia virginica																							
Clematis virginiana																							
Clematis verticillaris																							
Clintonia borealis	✓																						1
Comandra richardsoniana																							
Comandra umbellata																							
Comptonia peregrina																							
Convolvulus spithameus																							
Coptis groenlandicum																							
Corallorhiza maculata																							
Corallorhiza striata																							
Corallorhiza trifida																							
Cornus alternifolia																							
Cornus canadensis	✓	✓		✓			✓			✓	✓		✓			✓						6	40
Cornus racemosa																							
Cornus rugosa		✓		✓				✓	✓				✓									4	27
Cornus stolonifera	✓	✓																				1	
Corydalis sempervirens																							
Corylus americana																							
Corylus cornuta	✓	✓																					1
Cryptotaenia canadensis																							
Cynoglossum boreale																							
Cynoglossum officinale																							
Cypripedium acaule																							
Cypripedium arietinum																							
Cypripedium calceolus																							
Cypripedium reginae																							
Cystopteris bulbifera																							
Cystopteris fragilis																							
Dalibarda repens																							

	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
<i>Desmodium glutinosum</i>																							
<i>Dicentra canadensis</i>																							
<i>Dicentra cucullaria</i>																							
<i>Diervilla lonicera</i>	✓	✓																					1
<i>Dirca palustris</i>																							
<i>Dryopteris boottii</i>																							
<i>Dryopteris cristata</i>		✓																					1
<i>Dryopteris disjuncta</i>	✓	✓										✓										1	7
<i>Dryopteris goldiana</i>																							
<i>Dryopteris marginalis</i>																							
<i>Dryopteris noveboracensis</i>																							
<i>Dryopteris phegopteris</i>																							
<i>Dryopteris spinulosa</i>	✓	✓								✓												1	7
<i>Empetrum nigrum</i>																							
<i>Epifagus virginiana</i>																							
<i>Epigaea repens</i>																							
<i>Epilobium angustifolium</i>		✓																					1
<i>Epilobium glandulosum</i>																							
<i>Epilobium strictum</i>																							
<i>Equisetum arvense</i> v. borealis	✓	✓								✓		✓										2	13
<i>Equisetum pratense</i>																							
<i>Equisetum scirpoides</i>																							
<i>Equisetum sylvaticum</i>	✓	✓					✓	✓	✓			✓	✓									5	33
<i>Erigeron annuus</i>																							
<i>Erigeron philadelphicus</i>																							
<i>Erigeron strigosus</i>																							
<i>Erythronium albidum</i>																							
<i>Erythronium americanum</i>																							
<i>Eupatorium maculatum</i>		✓			✓																	1	7
<i>Eupatorium perfoliatum</i>																							
<i>Eupatorium purpureum</i>																							
<i>Fagopyrum sagittatum</i>																							
<i>Festuca obtusa</i>																							
<i>Fragaria vesca</i>																							
<i>Fragaria virginiana</i>	✓	✓	✓	✓		✓	✓		✓		✓	✓		✓		✓						9	60
<i>Galium aparine</i>																							
<i>Galium asprellum</i>																							
<i>Galium boreale</i>																							
<i>Galium concinnum</i>																							
<i>Galium lanceolatum</i>																							
<i>Galium triflorum</i>	✓	✓			✓					✓												2	13
<i>Gaultheria hispidula</i>																							
<i>Gaultheria procumbens</i>																							
<i>Gaylussacia baccata</i>																							
<i>Gentiana andrewsii</i>																							
<i>Gentiana crinata</i>																							
<i>Gentiana linearis</i>																							
<i>Gentiana quinquefolia</i>																							
<i>Geocaulon lividum</i>																							
<i>Geranium bicknelli</i>																							
<i>Geranium maculatum</i>																							
<i>Geranium robertianum</i>																							

	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Geum aleppicum																							
Geum canadense	✓	✓																					1
Geum rivale																							
Glyceria striata																							
Goodyera obtusifolia																							
Goodyera pubescens																							
Goodyera repens																							
Goodyera tessellata																							
Habenaria clavellata																							
Habenaria hyperborea																							
Habenaria obtusata																							
Habenaria orbiculata																							
Habenaria psycodes																							
Habenaria viridis																							
Hackelia virginiana																							
Halenia deflexa																							
Hamamelis virginiana																							
Helianthus strumosus																							
Hepatica acutiloba																							
Hepatica americanum	✓																						1
Heracleum maximum																							
Heuchera richardsonii																							
Hieracium aurantiacum																							
Hieracium canadense																							
Hieracium pratense																							
Hieracium scabrum																							
Ilex verticillata	✓																						1
Impatiens capensis	✓																						1
Iris lacustris																							
Isopyrum bitermum																							
Juniperus communis																							
Juniperus horizontalis																							
Lactuca canadensis																							
Laportea canadensis																							
Lathyrus ochroleucus	✓																						1
Ledum groenlandicum																							
Lichens spp.	✓	✓				✓		✓			✓		✓			✓						5	33
Lilium michiganense																							
Linnaea borealis	✓	✓		✓		✓										✓						3	20
Listera auriculata																							
Listera borealis																							
Listera convallarioides																							
Listera cordata																							
Lobelia inflata																							
Lonicera canadensis	✓	✓																					1
Lonicera dioica																							
Lonicera hirsuta	✓	✓																					1
Lonicera involucrata																							
Lonicera oblongifolia																							
Lonicera prolifera																							
Lonicera villosa																							
Luzula acuminata	✓	✓		✓			✓			✓													3 20

[illegible]

[illegible]

[illegible]

[illegible]

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 63

May 26, 1956

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*
- 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* *chuck*
- ✓ *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*
- 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*
- 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

May 26, 1956

SPRUCE-FIR - MIXED HARDWOODS

S 63

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 americana
Hieracium aurantiacum
Hieracium canadense
Hieracium scabrum
Impatiens capensis
Iris lacustris
Isopyrum bibernatum
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 f
Trillium erectum
Trillium grandiflorum
Trillium undulatum
Uvularia grandiflora
Uvularia sessilifolia
Vicia americana
Viola adunca
Viola blanda
Viola canadensis
Viola conspersa f
Viola cucullata
Viola incognita f
Viola nephrophylla
Viola pallens
Viola papilionacea
Viola pubescens
Viola renifolia
Viola selkirkii
Viola sororia
Waldsteinia fragarioides

Additional species

Gramineae spp.
Ruzula acuminata
Saxifraga pensylvanica
Mosses
Fucus
Carex pedunculata f
Lychnis canadensis
Ranunculus septentrionalis

Equisetum arvense
Mint sp. = *Sed.*
Caltha palustris
Solidago longicaulis

f = in flower

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 63

TREES

- July 2, 1956
- ✓ *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*

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)

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*

- ✓ *Prunus nigra*
- ✓ *Prunus pensylvanica*
- ✓ *Prunus serotina*
- ✓ *Prunus virginiana*
- ✓ *Pyrus americana* *sophy*
- ✓ *Pyrus decora*
- ✓ *Quercus rubra* var. *borealis*
- ✓ *Thuja occidentalis*
- ✓ *Tilia americana*
- ✓ *Tsuga canadensis*
- ✓ *Ulmus americana*
- ✓ *Ulmus rubra*
- ✓ *2. macrocarpa* var. *europaea*
- ✓ *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*

- ✓ *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

5-63

July 2, 1956

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 uniflora
 ✓ Onoclea sensibilis
 Orchis spectabilis
 Osmorhiza claytoni
 Osmorhiza longistylis
 Osmunda cinnamomea
 Osmunda claytoniana
 Oxalis montana
 Oxalis stricta
 Panax quinquefolius
 Panax trifolius
 ✓ Petasites palmatus
 Phlox divaricata
 Poa compressa
 Poa pratensis
 Polygala paucifolia
 Polygonatum biflorum
 Polygonatum pubescens
 Polymnia canadensis
 Polypodium virginianum
 Potentilla norvegica
 Potentilla simplex
 Potentilla tridentata
 Prenanthes alba
 Primula mistassinica
 ✓ Prunella vulgaris
 ✓ Pteridium aquilinum
 ✓ Pyrola asarifolia
 ✓ Pyrola elliptica
 Pyrola minor
 Pyrola rotundifolia
 Pyrola secunda
 Pyrola virens
 Ranunculus abortivus

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

Additional species

Mosses
 lichens
 Carex pedunculata
 Brachyelytrum erectum
 Caltha palustris
 Aster dumosus
 Solidago sp. - collected elsewhere
 Olex verticillata
 Lycopodium complanatum

Saxifraga pennsylvanica
 Luzula acuminata
 Aster lateriflorus
 Cicuta maculata
 3-tiered species = Eupatorium maculatum
 Iris versicolor
 Equisetum arvense
 Lysimachia ciliata

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 6311

TREE SEEDLINGS

865321 Abies balsamea
Acer pensylvanicum
53 Acer rubrum
3 Acer saccharum
9 Acer spicatum
Betula lutea
Betula papyrifera

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

0987654321 *Frax nigra*

SHRUBS

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

873 *Cornus rugosa*

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

96 *Ribes toxicum*

HERBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
762 Anemone quinquefolia
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
Aquilegia canadensis

9765421 *Aralia nudicaulis*9 *Arisaema atrorubens*054321 *Aster macrophyllus*91 *Athyrium filix-femina*7 *Botrychium virginianum*2 *Carex pensylvanica*

Chimaphila umbellata

Chrysanthemum leucanthemum

Circaea alpina

Claytonia caroliniana

Claytonia virginiana

Clintonia borealis

Coptis groenlandicum

Corallorhiza maculata

0963 *Cornus canadensis*

Cystopteris fragilis

Dicentra canadensis

Dicentra cucullaria

Dryopteris disjuncta

Dryopteris phegopteris

0975421 *Fragaria virginiana*93 *Galium triflorum*

Gaultheria hispidula

Gaultheria procumbens

Gentiana quinquefolia

Geranium maculatum

Goodyera repens

Habenaria obtusata

Halenia deflexa

Hepatica acutiloba

Hepatica americana

Hieracium aurantiacum

53 *Linnaea borealis*

Lycopodium annotinum

Lycopodium clavatum

Lycopodium complanatum

Lycopodium lucidulum

Lycopodium obscurum

0863 *Maianthemum canadense*

Medeola virginiana

Melampyrum lineare

Mitchella repens

Mitella diphylla

Pinus strobus

41 *Populus tremuloides*

Prunus pensylvanica

Prunus serotina

Thuja occidentalis

Tilia americana

Tsuga canadensis

6 *Prunus virginiana*

Rubus parviflorus

Sambucus pubens

Shepherdia canadensis

Spiraea alba

Symphoricarpos occidentalis

Taxus canadensis

Vaccinium angustifolium

Vaccinium myrtilloides

Viburnum acerifolium

Viburnum trilobum

976431 *Mitella nuda*

Monotropa uniflora

Osmorhiza claytoni

Oxalis montana

Oxalis stricta

Polygala paucifolia

Polygonatum pubescens

Prenanthes alba

4 *Pteridium aquilinum*81 *Pyrola elliptica*

Pyrola rotundifolia

Pyrola secunda

Ranunculus acris

Rhus radicans

69875421 *Rubus pubescens*

Sanguinaria canadensis

Smilacina racemosa

Smilacina stellata

Streptopus roseus

Tiarella cordifolia

Trientalis borealis

Trillium erectum

Trillium grandiflorum

Uvularia sessilifolia

Viola canadensis

Viola cucullata

Viola pallens

Viola pubescens

Viola renifolia

Waldsteinia fragarioides

Additional species

Mosses 12356780

Lichens 57

Petagone palmatus 12457

Trillium virginicum 126

Carex pedunculata 126

Saxifraga 12456789

Brachycephalum erectum 2

Luzula acuminata 269

Carex pedunculata 30

Equisetum arvense 9

3 *Taraxacum officinale* 4 - *Eupatorium maculatum* 754

Saxifraga mar 47

Solidago ulm 47 - *Lepida*

Lycopodium obscurum 5

Aster lindleyanus 57

Athyrium thelypteris 7

Saxifraga penn 7

Carex acutata 790

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 63 (2)

TREE SEEDLINGS

541 Abies balsamea
Acer pensylvanicum
Acer rubrum
Acer saccharum
Acer spicatum
Betula lutea
Betula papyrifera

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

427 max. mgs.

SHRUBS

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

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

HERBS

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

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

Pinus strobus
1 Populus tremuloides
Prunus pensylvanica
Prunus serotina
Thuja occidentalis
Tilia americana
Tsuga canadensis
12 Hieracium rubra
12 Prunus vng
Rubus parviflorus
Sambucus pubens
Shepherdia canadensis
Spiraea alba
Symphoricarpos occidentalis
Taxus canadensis
Vaccinium angustifolium
Vaccinium myrtilloides
Viburnum acerifolium
Viburnum trilobum

521 Mitella nuda
Monotropa uniflora
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
Prenanthes alba
Pteridium aquilinum
4 Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
5432 Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
Streptopus roseus
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides

Additional species

Mosses 1345
Lichens 135
Equisetum arvense 1
Plantago palmata 134
Trillium commune 2
Carex pedunculata 24
Saxifraga pennsylvanica 2
Carex acutata 2
Erigeron sp 4
Solidago lepida