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Site 6068 (Boreal Stand 68): Port Wing, Bayfield County, Township 50N, Range 8W, Section 31. 1956-05-27

[s.l.]: [s.n.], 1956-05-27

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STAND RECORD

FORESTS

Stand No. 68

25 yd. int.

Name: Port Wing

County: Bayfield

Date: May 27, 1956 +

Size of Stand: 40 acres

Forest Type: spruce-fir popple

Topography: gently rolling

Locality: Rd. E. of Gardners Motel Hy 13

T: 50N

R: 8W

Sec: 31-NW¹/₄

3 mi W Port Wing

Observers: PEM.

Size of Area Sampled:

Soil Type:

Slope:

Directions

Condition of Stand:

fair condition - fairly wet in spring - wet Mesic type - check in fall
 Subject to windthrow - on L. Superior shore. - Wind damaging popple mainly
 aiding conversion to spruce-fir
 Stand broken by alder swales - avoided

Open Grown Trees:

% Canopy:

Stumps:

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

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A ₀									
A ₁									
A ₂									
B									

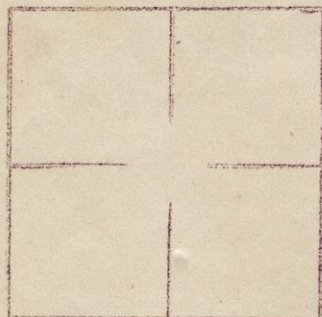
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	3" needles, leaves, twigs, humus (black)	1" needles, twigs, leaves	2" needle, leaves, twigs
A ₁	1" black	1" black	1 1/2 - 2" black
A ₂	1" leaching barely visible	1 1/2 - 2" leached grey-brown	1 - 1 1/2" grey-brown leached
B	red crumbly clay	crumbly red clay	crumbly red clay

Parent Material:

Map:



Previously logged & burned

Stand revisited & data collected - June 30, 1956

Large burned pine stumps visible

Staking not uniform, small grassy clearings avoided

On high perched water table - wet-Mesic, peaty in spots

Herb cover almost entirely lacking in very dense portions

Homogeneous - only 30 pts taken, difficult to sample - broken by openings & swales - but good young stand.

TREE DATA SUMMARY SHEET

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

Station Number: 68

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	65				2190	74	61.6		96.6	44.6	54.1	46.4	145.1	
Acer rubru															
A. sacchar															
A. spicatu															
Betula lut															
B. papyrif	1	2				45	29	24.2		3.3	1.5	1.7	1.0	4.2	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau	15	21				649	15	12.5		50.0	23.1	17.5	13.8	54.4	
Pinus Bank															
P. resinosa															
P. Strobus															1
Populus ba															
P. grandid															
P. tremulo	19	31				1809	2	1.7		63.3	29.3	25.9	38.4	93.6	
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi	1	1				24				3.3	1.5	0.8	0.4	2.7	
Ulmus amer															
U. fulva															
TOTALS.	65	120				4714	120	100.0		216.5	100.0	100.0	100.0	300.0	

AVE. DIST. BTW'N TREES:

7.3

AVE B. A.:

39.3

TREES/ACRE:

817

DOM./ACRE:

32,108

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 68(1)

[illegible]

Stand No. 682

[illegible]

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 68(3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	3	32	1 16 8 19	6 1/2 35	6 48 5 1/2 29	8 60 21 76	2 21 13 35			
Acer rubrum		4 25	7 1/2 30	8 34	1 1/5 26	2 1/2 31				
A. sacchar.			5 18		1 5 22	9 1/2 31				
A. spicatum					8 20					
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	7 6 1/2	20 25	3 1/2 17 8 18	7 26	1 24	2 1/2 30	4 1/2 105 8 1/2 20	4 1/2 40 2 26		
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem	1 21			7 35		5 3 1/2 71	8 13 1/2 50	6 31 7 38	10 25	
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Canopy	75	90	60	90	70	90	60	65	75	40
Litter	2	1 1/2	2	1	3	2	1	2 1/2	2	1
Distance										

Av. canopy - 66%

Av. litter - 1.6"

Stand No. 68(1) SAPLING

Distance

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 68(2) SAPLING

[illegible]

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 68(3) SAPLING

[illegible]

[illegible]

[illegible]

[illegible]

1	7
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[illegible]

[illegible]

[illegible]

[illegible]

	P	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	0		
Amelanchier spp.	✓														✓							1	7
Betula lutea																							
Betula papyrifera																							
Carpinus caroliniana																							
Crataegus spp.																							
Fagus grandifolia																							
Fraxinus americana																							
Fraxinus nigra	✓						✓															1	7
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	✓	✓							✓	✓	✓	✓	✓		✓	✓						8	53
Pyrus decora																							
Quercus rubra																							
Thuja occidentalis																							
Tilia americana																							
Tsuga canadensis																							
Ulmus americana																							
Ulmus rubra																							
Ulmus thomasi																							
Grass sp.	✓	✓				✓		✓														2	13
Solidago sp		✓																				1	
Sphagnum spp		✓																				1	

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 68

May 27, 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
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* 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* f
Corallorhiza maculata
Corallorhiza striata
Corallorhiza trifida
 ✓ *Cornus canadensis*
Corydalis sempervirens
Cynoglossum officinale
Cypripedium acaule
Cypripedium calceolus var. *pubescens*
Cystopteris fragilis
Dalibarda repens
Desmodium glutinosum
Dicentra canadensis
Dicentra cucullaria
Dryopteris cristata
Dryopteris disjuncta
Dryopteris goldiana
Dryopteris marginalis
Dryopteris phegopteris
 ✓ *Dryopteris spinulosa*

PRESENCE LIST

May 27, 1956

SPRUCE-FIR - MIXED HARDWOODS

STAND 68

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 *confidens?*
 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 f
 Viola nephrophylla
 Viola pallens
 Viola papilionacea
 Viola pubescens
 Viola renifolia
 Viola selkirkii
 Viola sororia
 Waldsteinia fragarioides

Additional species

Brassica
Equisetum arvense
Carex pedunculata
Osmunda sp.

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 68

June 30, 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* tree
- ✓ *Prunus serotina*
- ✓ *Prunus virginiana*
- ✓ *Pyrus americana* tree
- ✓ *Pyrus decora*
- ✓ *Quercus rubra* var. *borealis*
- ✓ *Thuja occidentalis*
- ✓ *Tilia americana*
- ✓ *Tsuga canadensis*
- ✓ *Ulmus americana*
- ✓ *Ulmus rubra*

SHRUBS

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

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

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

HERBS

- ✓ *Achillea millefolium*
- ✓ *Actaea pachypoda*
- ✓ *Actaea rubra*
- ✓ *Adiantum pedatum*
- ✓ *Agrimonia gryposepala*
- ✓ *Agrostis perennans*
- ✓ *Allium tricoccum*
- ✓ *Amphicarpa bracteata*
- ✓ *Anaphalis margaritacea*
- ✓ *Anemone canadensis*
- ✓ *Anemone cylindrica*
- ✓ *Anemone quinquefolia*
- ✓ *Anemone virginiana*
- ✓ *Antennaria* sp.
- ✓ *Apocynum androsaemifolium*
- ✓ *Aquilegia canadensis*
- ✓ *Aralia nudicaulis*
- ✓ *Aralia racemosa*
- ✓ *Arisaema atrorubens*
- ✓ *Asarum canadense*
- ✓ *Asclepias exaltata*
- ✓ *Aster furcatus*
- ✓ *Aster macrophyllus*
- ✓ *Aster nova-angliae*
- ✓ *Aster paniculatus*

- ✓ *Aster puniceus*
- ✓ *Aster sagittifolius*
- ✓ *Aster umbellatus*
- ✓ *Athyrium filix-femina*
- ✓ *Athyrium thelypteroides*
- ✓ *Botrychium lunaria*
- ✓ *Botrychium matricariaefolium*
- ✓ *Botrychium multifidum*
- ✓ *Botrychium virginianum*
- ✓ *Calypso bulbosa*
- ✓ *Campanula rotundifolia*
- ✓ *Carex arctata*
- ✓ *Carex intumescens*
- ✓ *Carex pensylvanica*
- ✓ *Carex woodii*
- ✓ *Carex* spp.
- ✓ *Chimaphila umbellata*
- ✓ *Chrysanthemum leucanthemum*
- ✓ *Chrysosplenium americanum*
- ✓ *Cinna latifolia*
- ✓ *Circaea alpina*
- ✓ *Claytonia caroliniana*
- ✓ *Claytonia virginiana*
- ✓ *Clematis virginiana*
- ✓ *Clematis verticillaris*

- ✓ *Clintonia borealis*
- ✓ *Comandra richardsiana*
- ✓ *Comandra umbellata*
- ✓ *Coptis groenlandicum*
- ✓ *Corallorhiza maculata*
- ✓ *Corallorhiza striata*
- ✓ *Corallorhiza trifida*
- ✓ *Cornus canadensis*
- ✓ *Corydalis sempervirens*
- ✓ *Cynoglossum officinale*
- ✓ *Cypripedium acaule*
- ✓ *Cypripedium calceolus* var. *pubescens*
- ✓ *Cystopteris fragilis*
- ✓ *Dalibarda repens*
- ✓ *Desmodium glutinosum*
- ✓ *Dicentra canadensis*
- ✓ *Dicentra cucullaria*
- ✓ *Dryopteris cristata*
- ✓ *Dryopteris disjuncta*
- ✓ *Dryopteris goldiana*
- ✓ *Dryopteris marginalis*
- ✓ *Dryopteris phegopteris*
- ✓ *Dryopteris spinulosa*

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

S-68

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

Brass. spp.
 Solidago sp.
 Lycopodium complanatum
 Luzula acuminata
 Equisetum arvense v. boreale
 Aster lindleyanus
 Hieracium lanatum
 Rubus sp. - collected - cynosbati
 Sphagnum spp.

Senecio annuus
 Carex pedunculata

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 68(1)

TREE SEEDLINGS

08154321 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

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

6 Frax. nig

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
3 Corylus cornuta
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

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

HERBS

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

7 Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
61 Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
6 Fragaria virginiana
Galium aparine
07651 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
657 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
Pteridium aquilinum
7 Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
75 Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
6 Streptopus roseus
Tiarella cordifolia
65 Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides
76 Viola incognita

Additional species

Mosses 1234567890
Lichens 126890
Carex arctata 127
Sambucus sp. 12
Luzula acuminata 2

Petasites palmatus 57
Sax. sp. 57
Epilobium glandulosum 5
Aster hickmanii 57

Carex pedunc 678
Luzula acuminata

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 68(2)

TREE SEEDLINGS

54321 *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

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

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
Rosa sp.
Rubus (blackberry)
Rubus (dewberry)
Rubus (raspberry)
Rubus idaeus

5424 *Rubus arvensis*
 4 *Rubus parviflorus*
Sambucus pubens
Shepherdia canadensis
Spiraea alba
Symphoricarpos occidentalis
Taxus canadensis
Vaccinium angustifolium
Vaccinium myrtilloides
Viburnum acerifolium
Viburnum trilobum

HERBS

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

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
 5 *Equisetum sylvaticum*
Erythronium americanum
Fragaria vesca
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
Linnaea borealis
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
 2 *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
Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
 54 *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

Lichens 1245
Mosses 12345
Carex pedunculata 5

43 *Viola macrocarpa*