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Site 6010 (Boreal Stand 10): Eagle Bay Point - W. side of road, Bayfield County, Township 52N, Range 4W, Section 27; Township 52N, Range 4W, Section 28. 1955-07-06

[s.l.]: [s.n.], 1955-07-06

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[Site 6010]

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 10

Name: Eagle Bay Point - W. side of Road. Locality: Redcliff Ind. Res. -

County: Bayfield Redcliff Reserv. T: 52 N R: 4W Sec: 27, 28

Date: July 6, 1955

Observers: JFM

Size of Stand: 80 acres

Size of Area Sampled:

Forest Type:

Soil Type:

Topography: Gently rolling

Slope:

Directions

gentle

N. to L. Superior

Condition of Stand:

Jaws - young hardwood overtopped by old spruce
 Some larger spruce has been windthrown - also large balsam
 logged for pine
 Area probably budwormed.

One white pine - 420 BA seen

surrounding stands logged for veneer, spruce + balsam

Stand reported by John Daly - Redcliff

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.
Ao									
A1									
A2									
B									

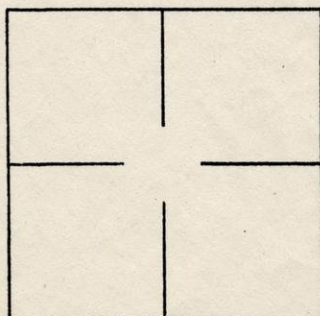
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

DEPTH	CHARACTERISTICS (Color, Texture, Structure, etc.)
#1 2" ferment	#2
4" - 2" litter - leaves + needles	4" - 5" 2" - litter
Ao 1/2" - 1" - black, granular	4" - 2" - deep black
A1 4" - greyish light brown	1" black
A2 + hardpan or reddish brown	1-1/2" brown - short leaching
B	red - brown - stones
	large stones + clay at 10"

Parent Material: red clays, sandstone

Map:



Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

Merie
164.7Spruce-fir
Northern Pine-Hardwoods

Station Number: 10 - 2076

Mid range
2nd yrN. Range
2nd yr

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											
849.6 Abies bals	34	59				3653	68	42.5		85.0	29.1	36.9	28.4	94.4	660.8	755.2
71.8 Acer rubru	17	20				1145	9	5.6		42.5	14.5	12.5	8.9	35.9	215.4	179.5
167.6 A. sacchar	19	24				1364	24	16.0		47.5	16.2	15.0	10.6	41.9	419.0	209.5
A. spicatu							29	18.1							1.0	
82.8 Betula lut	4	5				940	2	1.3		10.0	3.4	3.1	7.3	13.8	110.4	69.0
373.0 B. papyrif	15	21				1469	9	5.6		37.5	12.8	13.1	11.4	37.3	186.5	335.7
1.0 Carpinus c															1.0	1.0
Fagus gran																
Ostrya vir																
469.0 Picea glau	15	17				3026	1	0.6		37.5	12.8	10.6	23.5	46.9	281.4	469.0
Pinus Bank																
P. resinosa																
7.0 P. Strobus															1.0	1.0
Populus ba																
P. grandid																
P. tremulo																
12.0 Prunus pen	1	1				12	2	1.3		2.5	0.8	0.6	0.1	1.5	6.0	12.0
Quercus el																
Q. rubra																
Tilia amer																
62.3 Tsuga cana	3	3				563				7.5	2.6	1.9	4.4	8.9	71.2	17.8
116.0 Thuja occi	6	7				647	11	6.9		15.0	5.1	4.4	5.0	14.5	101.5	101.5
Ulmus amer																
U. fulva																
44.1 Pyrus amer.	3	3				55	5	3.1		7.5	2.6	1.9	0.4	4.9	19.6	29.4
Frax. nig.															1.0	1.0
2256 TOTALS		160				12874	160	100.0		292.5	100.0	100.0	100.0	300.0	2076	2251.6

AVE. DIST. BTW'N TREES:

9.9

AVE B. A.:

80.5

TREES/ACRE:

444

DOM./ACRE:

35,742

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 10 (11)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	11 1/2' 18			10 1/2' 20	7' 37	6' 17	19' 138	11' 14	1' 16	12 1/2' 32
Acer rubrum	1' 25		4' 51		12' 28	10 1/2' 34	13 1/2' 38		11 1/2' 85	8' 33
A. sacchar.		22' 82	2' 35	8' 18			10' 24	3' 55	2' 29	
A. spicatum										
Betula lut.								1' 66		
B. papyrif		22' 50	7 1/2' 36		12' 74	13' 92		12' 110		
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau	8 1/2' 95	15' 135		17' 45		5' 87				8' 159
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										
Pyrus amer.	12' 20									
LITTER	5"	3 1/2"	6"	4"	3"	4	2"	4"	3"	2 1/2"
CANOPY	40%	12	75	10	58	80	1%	65	20%	75
Distance	33'	78'	14 1/2'	47 1/2'	38'	34 1/2'	46 1/2'	27'	16 1/2'	35 1/2'

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 10(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	3' 51	25' 17	6' 44	9 1/2' 21	8' 38	5' 75	11' 70	17' 55	9' 47	
Acer rubrum	11 1/2' 51	8' 117	10 1/2' 105					10' 35	10' 93	7 1/2' 113
A. sacchar.	7 1/2' 53			10' 42	18' 57			17' 42		
A. spicatum								1' 32		
Betula lut.						2' 100				
B. papyrif		16' 52			4' 97				13 1/2' 117	
Carpinus car					9 1/2' 39					
Fagus gran										
Ostrya virg										
Picea glau	10' 281						21' 52		8' 42	15' 170
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can						15' 170				
Thuja occ										14' 240
Ulmus amer										
U. fulva										
Pyrus amer.						9 1/2' 119				7' 16
HTTEX	3	1 1/2	3 1/2	4"	2"	4"	2 1/2"	3"	6"	3"
CANOPY	75	75	65	20	90	55	75	90	80	68
Distance	32'	60'	28 1/2	45'	39 1/2	31 1/2'	50 1/2'	45'	40 1/2	43 1/2'

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 10/31

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	13' 73 10' 67	8' 14	7' 180	4' 50	10' 33 1' 32	13' 53 8' 76	12' 115		4' 42 8' 53	8' 29
Acer rubrum		7' 130	10' 15	1' 45 7' 45			7' 30	16' 42 16' 28	8' 53	
A. sacchar.	9' 76			14' 47					18' 22 4' 30	12' 100
A. spicatum										
Betula lut.										
B. papyrif	16' 172	8' 19			8' 63		9' 97 9' 76	8' 127 3' 44		
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau		26' 172	11' 115						8' 185	
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can			7' 278			8' 73				
Thuja occ					10' 35	7' 41				10' 19
Ulmus amer										
U. fulva										
LITTER	2 1/2	4'	3 1/2	6"	3 1/2	2"	2 1/2	3"	4"	3"
CANOPY	88	85	70	70	60	85	65	20	95 1/2	85
Distance	49'	49 1/2'	35'	26 1/2'	30	36 1/2	37'	43'	38'	34'

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 10. (4)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	11 1/2' 108 18' 86	14' 30 9' 52	10' 136 8' 145	10' 34	16' 42		9' 42 22' 111	4' 50 18' 110		10' 172 14' 184
Acer rubrum	14' 28							7' 85		
A. sacchar.	20' 120		6' 66	9 1/2' 82 7' 41		6' 32 13' 28			14 1/2' 124	8 1/2' 85
A. spicatum						11' 41				
Betula lut.								3' 30		8 1/2' 114
B. papyrif					3' 40		20' 92		10' 171 8' 33 2' 42	
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau				11 1/2' 12 13' 240 19' 250			7' 36			
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.						5' 12				
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ		4' 191 5' 45	20' 76							
Ulmus amer										
U. fulva										
LITTER	2 1/2"	5"	5"	4 1/2"	4"	2"	3	4"	6"	5"
CANOPY	90	85	80	92	85	90	75	65	75	85
Distance	63 1/2'	32'	44'	38'	51'	25	58	22'	59 1/2'	41 1/2'

Av. canopy - 70%

Av. litter - 3.6"

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 10 (1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4'	22' 20'	8' 12½'	14½'		9'	7' 11'	4' 7'	6'	9'
Acer rubrum					4'	9'		5'		
A. sacchar.	14' 7'		6'	20'	15' 8½'			8'	8'	11' 6'
A. spicatum		6'	11'						5' 7'	8'
Betula lut.		5'								
B. papyrif	17'				10'		4'			
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau				22'						
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.				11'						
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva										
Pyrus amer						9' 15'				
Distance	42'	53'	37½'	67½'	37½'	42'	31'	24'	26'	34'

POINT RECORD TREES ^{SAPLINGS}

NORTHERN PINE-HARDWOODS

Stand No. 10(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	11½ 17	11½ 2	12½ 8' 5'	13½ 12½	12	14½ 17 8'		32' 9'	8' 4'	18' 17'
Acer rubrum									14'	
A. sacchar.	9'	10½'		3'	12' 1'		6'	13'		
A. spicatum	9'	4½' 6	22	8'		8'	6' 3' 5'	16'	9'	18' 10'
Betula lut.										
B. papyrif					7'					
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										
Distance	46½'	32'	47½'	37'	32'	47½'	20'	70'	35'	63'

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 10(31)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	9 1/2 5	12 14	6 5	4	17	15 5	7 7	12 7 1/2		16 2
Acer rubrum		23		4	11 22					
A. sacchar.										
A. spicatum		10							11 1/2	8
Betula lut.										
B. papyrif			16	8 11				9		
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					19	12 1	8	8	1 13	8
Ulmus amer										
U. fulva										
Pyrus amer.			8				8 1/2		1	
Distance	38 1/2	53	35	27	69	33	30 1/2	36 1/2	26 1/2	34

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 10(4)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4' 7'	4' 19'	7' 14'	10' 8'			10 1/2'		11' 3'	
Acer rubrum								2'		
A. sacchar.						6' 5'	4'	15' 3'		8'
A. spicatum	9 1/2'				4' 9'	5'	7' 6'			17'
Betula lut.										21'
B. papyrif									5'	
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.					3'					
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ		12 1/2'			10 1/2'					21'
Ulmus amer										
U. fulva										
Distance	26 1/2'	50'	36 1/2'	31'	26 1/2'	20'	28 1/2'	21'	32 1/2'	67'

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 10

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

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

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

TREES

✓ *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

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)

HERBS

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*
Pyrus decora
Quercus rubra var. *borealis*
 ✓ *Thuja occidentalis*
Tilia americana
 ✓ *Tsuga canadensis*
Ulmus americana
Ulmus rubra

✓ *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

STAND 10

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 bitermum
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

✓ *Mn.*
Sanicula sp. - marilandica
Lithos.
Carex pedunculata
Like Waldsteinia - Anemone quinquefolia
Palmate leaf - Petasites palmatus
Wide bran. - Brachyleitum erectum
Sphagnum
Large fruited Carex - Carex intumescens
Jagged fringed - Iscaulium
Veronica scutellata

Carex brunneescens
Grass sp. - Onyrops asperifolia
Viola selkirkii
Goodyera obtusifolia

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 10 (11)

TREE SEEDLINGS

87631 *Abies balsamea* 9
Acer pensylvanicum
 8743 *Acer rubrum* 9
 8541 *Acer saccharum*
 874321 *Acer spicatum* 0
Betula lutea
Betula papyrifera

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

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

31 *Pyrus amara*

SHRUBS

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

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

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

HERBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphlis margaritacea
Anemone cylindrica
Anemone quinquefolia
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
Aquilegia canadensis
 98651 *Aralia nudicaulis* 0
Arisaema atrorubens
 54321 *Aster macrophyllus* 6890
Athyrium filix-femina
Botrychium virginianum
Carex pensylvanica
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
 87543 *Clintonia borealis* 90
Coptis groenlandicum
Corallorhiza maculata
 91 *Cornus canadensis*
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

05 *Dryopteris spinulosa*
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
Fragaria virginiana
Galium aparine
 2 *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
 1 *Lycopodium obscurum*
 0987543 *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
Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
 9 *Streptopus roseus*
Tiarella cordifolia
 09 *Trientalis borealis*
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
 2 *Viola renifolia*
Waldsteinia fragarioides

Additional species

Moss 1456790 *Petaiole*
Carex peduncul *Palustris* - 2
Rubus parv 129 *Sphagnum* - 2
Lichen 149 *Waldst. 20 - Brachyotum*
Carex brunnescens 0

Viola selkirkii 125
Viola insignita 30

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 10 (2)

TREE SEEDLINGS

- 5321 Abies balsamea 7
Acer pensylvanicum
5321 Acer rubrum 67890
065 Acer saccharum
5431 Acer spicatum 7890
Betula lutea
2 Betula papyrifera 8

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

Pyrus ama. 69

SHRUBS

- Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
Corylus cornuta
Diervilla lonicera
Dirca palustris
Ilex verticillata
Ledum groenlandicum
954 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
Vaccinium angustifolium
Vaccinium myrtilloides
Viburnum acerifolium
Viburnum trilobum

HERBS

- Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphlis margaritacea
Anemone cylindrica
Anemone quinquefolia
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
Aquilegia canadensis
76 Aralia nudicaulis
Arisaema atrorubens
Aster macrophyllus 1235678
Athyrium filix-femina
Botrychium virginianum
Carex pensylvanica
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
Clintonia borealis 1345670
Coptis groenlandicum 3
Corallorhiza maculata
06 Cornus canadensis
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

- 874 Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
Fragaria virginiana
Galium aparine
9 Galium triflorum
8 Gaultheria hispidula
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
Linnaea borealis
0 Lycopodium annotinum
651 Lycopodium clavatum
Lycopodium complanatum
6 Lycopodium lucidulum
5 Lycopodium obscurum
07654321 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
Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
98 Streptopus roseus
Tiarella cordifolia
642 Trientalis borealis
Trillium erectum
Trillium grandiflorum
0 Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
107545 Viola renifolia
Waldsteinia fragarioides

Additional species

- 08 Moss 2 3 4 5 6 7 Rubus parviflorus 6
Carex brunnescens 2 Lichen 7
Carex pedunculata 2 Big Violet 8 - pubescens
Goodyera obtus. 3

Viola selkirkii 2 5 789
Viola incognita 2 4 68