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Site 6078 (Boreal Stand 78): Escanaba River (West Branch), Dickinson County, Michigan, Township 44N, Range 28W, Section 25. 1956-07-14

[s.l.]: [s.n.], 1956-07-14

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STAND RECORD

FORESTS

Stand No. 78

Name: Escanaba River (West Branch)

County: Dickinson, N. Michigan

Date: July 14, 1956

Size of Stand 30 acres

Forest Type: spruce-fir-pine

Topography:

gently rolling

Locality: 6 1/2 mi N. Ralph on Co Hwy 581

T: 44N

R: 28W

Sec: 25 NE 1/4

Observers: PFM, JEM

Size of Area Sampled:

Soil Type:

Slope:

slight

Directions

NE facing

Condition of Stand:

Previously logged & burned - came back predominantly to spruce
 Wet-Mead site
 East of West Branch Camp Site - Escanaba River
 Some on top of slopes drier - mostly 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									

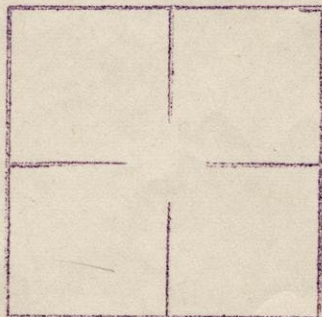
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1/2 needles	1" needles + moss	1/2 needles
A ₁	2" black-humus	1/2 black	1" black
A ₂	1" slightly leached	1/2-1" slightly leached	3" ashy gray
B	red brown sand small gravel	red-brown sand	red brown sand with small gravel

Parent Material:

Map:



TREE DATA SUMMARY SHEET

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

Station Number: 78

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	13	20				1049	14	11.7		43.3	18.8	16.7	13.0	48.5	
Acer rubru							1	0.8							
A. sacchar															
A. spicatu															
Betula lut															
B. papyrif	6	7				455	3	2.5		20.0	8.7	5.8	5.6	20.1	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau	25	62				3706	77	64.1		83.2	36.2	57.6	46.0	133.8	
Pinus Bank															
P. resinosa															
P. Strobus	11	16				1595	3	2.5		36.6	15.9	13.3	19.8	49.0	
Populus ba	1	1				260				3.3	1.4	0.8	3.2	5.4	
P. grandid															
P. tremulo	4	4				665				13.3	5.8	3.3	8.2	17.3	
Prunus ^{virg} peno							1	0.8							
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi	2	2				50	14	11.7		6.7	2.9	1.7	0.6	5.2	
Ulmus amer															
U. fulva															
Larix laric.	4	5				152	5	4.2		13.3	5.8	4.2	1.8	11.8	
Picea mar.	3	3				155				10.0	4.5	2.6	1.8	8.9	
Amelanchier ^{sp.}							2	1.7							
TOTALS	69	120				8087	120	100.0		229.7	100.0	100.0	100.0	300.0	

AVE. DIST. BTW N TREES:

9.0

AVE B. A.:

67.4

TREES/ACRE:

538

DOM./ACRE:

36,261

NORTHERN PINE-HARDWOODS

Stand No. 78 (1)

[illegible]

Stand No. 78 (2)

[illegible]

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 78(3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Abies balsam</i>	15-90	8½-55 8½-69	17-60 14½		9-55 6-45		17-25 17		17	
<i>Acer rubrum</i>	18									
<i>A. sacchar.</i>										
<i>A. spicatum</i>										
<i>Betula lut.</i>										
<i>B. papyrif</i>		3-55 11½ 14½-60 21	10½-50							
<i>Carpinus car</i>										
<i>Fagus gran</i>										
<i>Ostrya virg</i>										
<i>Picea glau</i>	8-55 17 12-25 8	4	9½-35 20 34	7-65 11 8-45 14 14½-60	9-15 14 7	5½-40 5 14-130 20	9-100 24 8½-120 19 12½-140	6-65 13 10½-120 13	8-80 8 7-14 29	3-150 14½ 7-70 33
<i>Pinus Bank</i>										
<i>P. resinosa</i>										
<i>P. Strobus</i>	23-55			5-55				1½-100 19 6-65	7-120 8-160	20-250 30
<i>Populus bals</i>						8-260				
<i>P. grand</i>										
<i>P. trem</i>										
<i>Prunus pen.</i>										
<i>Quercus ell</i>										
<i>Q. rubra</i>										
<i>Tilia amer</i>										
<i>Tsuga can</i>										
<i>Thuja occ</i>			6-25	10½ 15 11				13½		
<i>Ulmus amer</i>										
<i>U. fulva</i>										
<i>Larix laricina</i>										
<i>Amelanchier</i>				10	18-25	4-22 10½			11-25	
<i>Canopy</i>	40	50	20	45	20	50	30	55	60	50
<i>Letter</i>	1	1½	2	1½	1	½	2	2	2½	2
Distance										

Av. Canopy - 42%

Av. Letter - 1.8"

University of Wisconsin
STAND NO. 78

[illegible]

[illegible]

University of Wisconsin
STAND NO. 78

	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>	✓	✓					✓	✓	✓				✓		✓	✓						7	47
<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>	✓					✓					✓											2	13
<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>																							
<i>Equisetum pratense</i>																							
<i>Equisetum scirpoides</i>																							
<i>Equisetum sylvaticum</i>	✓																						1
<i>Erigeron annuus</i>																							
<i>Erigeron philadelphicus</i>																							
<i>Erigeron strigosus</i>																							
<i>Erythronium albidum</i>																							
<i>Erythronium americanum</i>																							
<i>Eupatorium maculatum</i>																							
<i>Eupatorium perfoliatum</i>																							
<i>Eupatorium purpureum</i>																							
<i>Fagopyrum sagittatum</i>																							
<i>Festuca obtusa</i>																							
<i>Fragaria vesca</i>																							
<i>Fragaria virginiana</i>	✓	✓				✓					✓				✓							4	27
<i>Galium aparine</i>																							
<i>Galium asprellum</i>																							
<i>Galium boreale</i>																							
<i>Galium concinnum</i>																							
<i>Galium lanceolatum</i>																							
<i>Galium triflorum</i>	✓	✓	✓		✓	✓									✓							5	33
<i>Gaultheria hispida</i>	✓																						1
<i>Gaultheria procumbens</i>	✓								✓				✓									2	13
<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>																							

[illegible]

	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Podophyllum peltatum																							
Polygala paucifolia																							
Polygonatum biflorum																							
Polygonatum pubescens																							
Polygonum cilinode																							
Polymnia canadensis																							
Polypodium virginianum																							
Potentilla canadensis																							
Potentilla norvegica																							
Potentilla simplex																							
Potentilla tridentata																							
Prenanthes alba	✓																						1
Primula mistassinaca																							
Prunella vulgaris	✓																						1
Prunus pumila																							
Pteretis pensylvanica																							
Pteridium aquilinum	✓										✓	✓			✓							3	20
Pyrola asarifolia																							
Pyrola elliptica	✓									✓												1	7
Pyrola grandiflora																							
Pyrola minor																							
Pyrola rotundifolia																							
Pyrola secunda																							
Pyrola virens																							
Pyrus floribunda																							
Pyrus melanocarpa																							
Ranunculus abortivus																							
Ranunculus acris																							
Ranunculus pensylvanicus																							
Ranunculus recurvatus																							
Ranunculus repens																							
Ranunculus septentrionalis																							
Rhamnus alnifolia	✓																						1
Rhus glabra																							
Rhus radicans																							
Rhus typhina																							
Rhus vernix																							
Ribes americanum																							
Ribes cynosbati	✓																						1
Ribes glandulosum	✓																						1
Ribes hirtellum																							
Ribes lacustre																							
Ribes oxyacanthoides																							
Ribes triste																							
Rosa sp.																							
Rubus allegheniensis																							
Rubus idaeus	✓																						1
Rubus hispidus																							
Rubus odoratus																							
Rubus parviflorus	✓																						1
Rubus pubescens	✓				✓					✓												2	13
Rubus (blackberry)																							

[illegible]

[illegible]

[illegible]

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 78

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 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-78

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 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
 Grass sp.
 Oryzopsis asperifolia
 Lycopodium uniflorum
 Drachyloctenium erectum
 Hieracium lanatum
 Solidago ulmifolia
 Aster lateriflorus

Nettle - Laportea canadensis
 Poa pratensis
 Carex projecta

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 78(1)

TREE SEEDLINGS

09731 *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

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

4 *Prunus sp.*

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
 6 *Corylus cornuta*
 8761 *Diervilla lonicera*
Dirca palustris
Ilex verticillata
Ledum groenlandicum
Lonicera canadensis
 4 *Lonicera villosa*

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
 9 *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
 05 *Aralia nudicaulis*
Arisaema atrorubens
Aster macrophyllus
 0 *Athyrium filix-femina*
Botrychium virginianum
 5 *Carex pensylvanica*
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
 865 *Clintonia borealis*
 076542 *Coptis groenlandicum*
Corallorhiza maculata
 87654321 *Cornus canadensis* 70
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
 0 *Dryopteris disjuncta*
Dryopteris phegopteris

05 *Dryopteris spinulosa*
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
 057 *Fragaria virginiana*
Galium aparine
 5421 *Galium triflorum*
Gaultheria hispidula
 8 *Gaultheria procumbens*
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
 09 *Linnaea borealis*
Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
 087642 *Maianthemum canadense*
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

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

041 *Viola incognita*

Additional species

Mosses 1234567890
Lichens 1234589
Carex pedunc 140
Artem sp 157
Lycopodium ann 45

Thalictrum flavum 5
Aster lateriflorus 5
Solidago ulmifolia 5
Clematis virgin 5
Pinus strobus 0

Osmunda clayt 0
Hieracium aurant 0

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 78 (2)

TREE SEEDLINGS

543 *Abies balsamea*
Acer pensylvanicum
Acer rubrum
Acer saccharum
Acer spicatum
Betula lutea
 5 *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
 542 *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
 31 *Vaccinium angustifolium*
Vaccinium myrtilloides
Viburnum acerifolium
Viburnum trilobum

HERBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
 4 *Anemone quinquefolia*
Anemone virginiana
Antennaria spp.
Apocynum androsaemifolium
Aquilegia canadensis
 31 *Aralia nudicaulis*
Arisaema atrorubens
Aster macrophyllus
Athyrium filix-femina
Botrychium virginianum
Carex pensylvanica
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
 43 *Clintonia borealis*
 31 *Coptis groenlandicum*
Corallorhiza maculata
 5431 *Cornus canadensis*
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
 4 *Fragaria virginiana*
Galium aparine
 4 *Galium triflorum*
Gaultheria hispidula
 2 *Gaultheria procumbens*
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
Halenia deflexa
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
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Lycopodium annotinum
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
 5432 *Maianthemum canadense*
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

Mitella nuda
Monotropa uniflora
Osmorhiza claytoni
 3 *Oxalis montana*
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
Prenanthes alba
 52 *Pteridium aquilinum*
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
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
 54 *Viola renifolia*
Waldsteinia fragarioides
 3 *Viola incognita*

Additional species

Mosses 12345
Lichens 2345
Poa pratensis 1
Carex pedunculata 1345
Grasses 4