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Site 6086 (Boreal Stand 86): St. Ignace, Mackinac County, Michigan, Township 41N, Range 4W, Section 10. 1956-07-24

[s.l.]: [s.n.], 1956-07-24

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STAND RECORD

FORESTS

Stand No. 86

Name: St. Ignace

County: Mackinac, N. Michigan

Date: July 24, 1956

Size of Stand: 60 acres

Forest Type: Cedar-spruce-balsam swamp

Topography:

gentle

St. Ignace 8 mi N. St. Ignace at junction of Hwy 2 and Hwy M123

Locality:

T: 41N

R: 4W

Sec: 10

Observers: PEM, JEM

Size of Area Sampled:

Soil Type:

Slope:

Directions

Condition of Stand:

Previously cut & burned.
fairly high water table Wet-Mesic - Wet.

Very dense canopy - barely any herbaceous understory - shrub layer almost completely absent

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.M.C.
A ₀									
A ₁									
A ₂									
B									

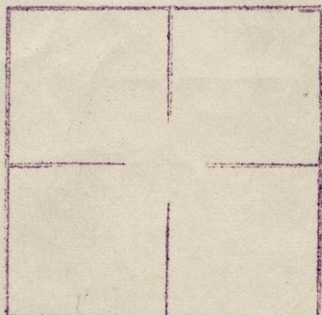
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	2"	1/2"	3/4"
A ₁	12-14" black	16" black	16" black
A ₂	not present	-	-
B	sand + glau	sand	sand

Parent Material:

Map:



TREE DATA SUMMARY SHEET

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

Station Number: 86

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	12	13				667				40.0	16.9	10.8	17.9	45.6	
Acer rubru							1	0.8							
A. sacchar															
A. spicatu															
Betula lut															
B. papyrif	9	9				159	7	5.8		30.0	12.7	7.5	4.3	24.5	
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau	8	8				383	3	2.5		26.6	11.3	6.7	10.3	28.3	
Picea mar. Picea canad.	10	14				376	5	4.2		33.3	14.1	11.7	10.1	35.9	
P. resinos															
P. Strobus															
Populus ba	2	3				135	1	0.8		6.7	2.8	2.5	3.6	8.9	
P. grandid															
P. tremulo							1	0.8							
Prunus pen															
Quercus el															
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi	29	72				1982	93	77.5		96.6	40.8	60.0	53.5	154.3	
Ulmus amer															
U. fulva															
Larix lar.	1	1				12	9	7.5		3.3	1.4	0.8	0.3	2.5	
TOTALS	71	120				3714	120	100.0		236.5	100.0	100.0	100.0	300.0	

AVE. DIST. BTW'N TREES:

6.9

AVE B. A.:

31.0

TREES/ACRE:

915

DOM./ACRE:

28,365

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 86(1)

STATION NO.	1	2	3	4	5	6	7	8	9	10		
Abies balsam			5 $\frac{1}{2}$ -100		10-130		3-12					
Acer rubrum												
A. sacchar.												
A. spicatum												
Betula lut.												
B. papyrif	9 $\frac{1}{2}$		13 $\frac{1}{2}$ -19		6				8	5-15		
Carpinus car												
Fagus gran												
Ostrya virg												
Picea glau	11 $\frac{1}{2}$ -55		1 $\frac{1}{2}$ 16-23	10 $\frac{1}{2}$ -15				2	2-25	11 $\frac{1}{2}$ -75		
Picea mariana Pinus Bank		4-20		2 $\frac{1}{2}$ -55 7-20		1 $\frac{1}{2}$ -23	4		7	2 $\frac{1}{2}$ -16 9-15		
P. resinosa												
P. Strobus												
Populus bals		3-45 6-40								3		
P. grand												
P. trem			4									
Prunus pen.												
Quercus ell												
Q. rubra												
Tilia amer												
Tsuga can												
Thuja occ	8 $\frac{1}{2}$ -12 4-45 5-25	8 $\frac{1}{2}$ 11-21	7 3-19 5	6 12 7	11-13 9 $\frac{1}{2}$ 6	4 $\frac{1}{2}$ -50 12-16 4-12	2 5-18 5-14	1-16 4 $\frac{1}{2}$ 3	4-60 10 $\frac{1}{2}$ -38 3-45	14 3-70 4-25 12-30 7-19	3 7-22 11 $\frac{1}{2}$ -20 7-25	6 3 $\frac{1}{2}$ 11
Ulmus amer												
U. fulva												
Larix laricina				5 $\frac{1}{2}$ 6		3		4	5			
Canopy Lith	70 1 $\frac{1}{2}$	60 2 $\frac{1}{2}$	80 1 $\frac{1}{2}$	85 1	80 1 $\frac{1}{2}$	70 1	60 2 $\frac{1}{2}$	65 1 $\frac{1}{4}$	70 1	55 2		
Distance	29-28 $\frac{1}{2}$	24-15 $\frac{1}{2}$	38-29	31-27	30 $\frac{1}{2}$ -23 $\frac{1}{2}$	12 $\frac{1}{2}$ -15	22 $\frac{1}{2}$ -44 $\frac{1}{2}$	26-15	27 $\frac{1}{2}$ -26	28-21		

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 86(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Abies balsam</i>		3-35	13-50 2-45			8-15	3 1/2-21	9-45	7-19	8-45
<i>Acer rubrum</i>			11							
<i>A. sacchar.</i>										
<i>A. spicatum</i>										
<i>Betula lut.</i>										
<i>B. papyrif</i>					5-17					8-25
<i>Carpinus car</i>										
<i>Fagus gran</i>										
<i>Ostrya virg</i>										
<i>Picea glau</i>				6-60	1 1/2-45	6				
<i>Pinus Bank</i>	1-40 3-25 3-17	3 7	13 1/2-23	7-15		9				4-17
<i>P. resinosa</i>										
<i>P. Strobus</i>										
<i>Populus bals</i>										
<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>	10-22 14	9 14	5 1/2-50 10 1/2-40 7	8 1/2 3-35 11	16-18 7 1/2-26 5 1/2 6	4-35 6-25 4 1/2 7-18	8 1/2 12-20 3-17 9-14	12-20 3-17 4 8 1/2-10	4-45 5-23 9 1/2 9-40	15 3 12 12
<i>Ulmus amer</i>										
<i>U. fulva</i>										
<i>Canx lancea</i>						5				
<i>Canopy</i>	55	50	70	65	85	60	35	55	80	95
<i>litter</i>	3	1 1/2	1 1/2	3	2 1/2	2	1	3	1	2
Distance	17-33	32 1/2-28	34-33	24 1/2-27	26 1/2-28	25 1/2-22	27 1/2-25 1/2	26 1/2-31	30-31	25 1/2-12 1/2

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 86(3)

STATION NO.	1	2	3	4	5	6	7	8	9	10
<i>Abies balsam</i>			14-45			6-75				
<i>Acer rubrum</i>										
<i>A. sacchar.</i>										
<i>A. spicatum</i>										
<i>Betula lut.</i>										
<i>B. papyrif</i>	6 1/2-11		13 1/2-15	5	9-25	7-14		5-19	3	3
<i>Carpinus car</i>										
<i>Fagus gran</i>										
<i>Ostrya virg</i>										
<i>Picea glau</i>		4-85		3						
<i>Picea mariana</i> <i>Pinus-Bank</i>						9 1/2-25			5-65	
<i>P. resinosa</i>										
<i>P. Strobus</i>										
<i>Populus bals</i>										3 1/2-50
<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>	2-15 2-35 10 1/2-27	4 7-18 6 1/2-20	2 4 33	2 1/2-28 8 1/2-85	8 1/2 3-30 5-75	6 4-45 6-70	7 6-24 7	8-22 7 7	3-17 6-15 5 1/2-18	2 3 3
<i>Ulmus amer</i>										
<i>U. fulva</i>										
<i>Larix laricina</i>				8 1/2			4-12	1	6	
Canopy	60	55	75	60	85	65	70	50	60	90
litter	1 1/2	1	1	1 1/2	1 1/2	1	2	1	1 1/2	2
Distance	21-19 1/2	29 1/2-19	35 1/2-25	20 1/2-23	25-28	29 1/2-24 1/2	18 1/2-16	34 1/2-25	34-23	24 1/2-16

Av. Canopy = 67% Av. litter = 1.6"

Data Form No. 84a
TABULATION FORM

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

University of Wisconsin
STAND NO. 86

[illegible]

	P	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
Carex disperma																							
Carex eburnea	✓										✓											1	7
Carex intumescens																							
Carex leptalea																							
Carex pedunculata	✓										✓											1	7
Carex pensylvanica																							
Carex projecta																							
Carex woodii																							
Carex spp.																							
Caulophyllum thalictroides																							
Celastrus scandens																							
Chamaedaphne calyculata																							
Chimaphila umbellata																							
Chrysanthemum leucanthemum																							
Chrysosplenium americanum																							
Cicuta maculata																							
Cinna latifolia																							
Circaea alpina																							
Cirsium altissimum																							
Cirsium arvense																							
Cirsium vulgare																							
Claytonia caroliniana																							
Claytonia virginica																							
Clematis virginiana																							
Clematis verticillaris																							
Clintonia borealis	✓																						1
Comandra richardsiana																							
Comandra umbellata																							
Comptonia peregrina																							
Convolvulus spithameus																							
Coptis groenlandicum	✓					✓					✓	✓										3	20
Corallorhiza maculata																							
Corallorhiza striata																							
Corallorhiza trifida	✓																						1
Cornus alternifolia																							
Cornus canadensis	✓																						1
Cornus racemosa																							
Cornus rugosa	✓																						1
Cornus stolonifera																							
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																							

[illegible]

	P	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	0		
Geum aleppicum																							
Geum canadense																							
Geum rivale																							
Glyceria striata																							
Goodyera obtusifolia																							
Goodyera pubescens																							
Goodyera repens																							
Goodyera tessellata																							
Habenaria clavellata																							
Habenaria hyperborea	✓	✓																				1	7
Habenaria obtusata																							
Habenaria orbiculata																							
Habenaria psycodes																							
Habenaria viridis	✓																						
Hackelia virginiana																							
Halenia deflexa																							
Hamamelis virginiana																							
Helianthus strumosus																							
Hepatica acutiloba																							
Hepatica americanum																							
Heracleum maximum																							
Heuchera richardsonii																							
Hieracium aurantiacum																							
Hieracium canadense																							
Hieracium pratense																							
Hieracium scabrum																							
Ilex verticillata	✓																						1
Impatiens capensis																							
Iris lacustris																							
Isopyrum bitermum																							
Juniperus communis																							
Juniperus horizontalis																							
Lactuca canadensis																							
Laportea canadensis																							
Lathyrus ochroleucus																							
Ledum groenlandicum																							
Lichens spp.	✓		✓		✓	✓	✓	✓		✓			✓			✓						8	53
Lilium michiganense																							
Linnæa borealis	✓			✓		✓										✓						3	20
Listera auriculata																							
Listera borealis																							
Listera convallarioides																							
Listera cordata																							
Lobelia inflata																							
Lonicera canadensis	✓																						1
Lonicera dioica																							
Lonicera hirsuta																							
Lonicera involucrata																							
Lonicera oblongifolia																							
Lonicera prolifera																							
Lonicera villosa																							
Luzula acuminata																							

[illegible]

[illegible]

[illegible]

	P	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	0		
Trifolium pratense																							
Trifolium repens																							
Trillium cernuum																							
Trillium erectum																							
Trillium grandiflorum																							
Trillium undulatum																							
Uvularia grandiflora																							
Uvularia sessilifolia																							
Vaccinium angustifolium	✓																					1	
Vaccinium cespitosum																							
Vaccinium corymbosum																							
Vaccinium myrtilloides	✓																					1	
Vaccinium ovalifolium																							
Vaccinium uliginosum																							
Vaccinium vitis-idaea																							
Veronica officinalis																							
Veronica scutellata																							
Veronica serpyllifolia																							
Viburnum acerifolium																							
Viburnum alnifolium																							
Viburnum cassinoides																							
Viburnum edule																							
Viburnum lentago																							
Viburnum rafinesquianum																							
Viburnum trilobum																							
Vicia americana																							
Viola adunca																							
Viola blanda,																							
Viola canadensis																							
Viola conspersa																							
Viola cucullata																							
Viola incognita	✓					✓									✓	✓						3	20
Viola nephrophylla																							
Viola pallens	✓														✓	✓						2	13
Viola papilionacea																							
Viola pubescens																							
Viola renifolia	✓					✓																1	7
Viola selkirkii																							
Viola sororia																							
Vitis riparia																							
Waldsteinia fragarioides																							
Woodsia ilvensis																							
Xanthoxylum americanum																							
Tree Seedlings																							
Abies balsamea	✓	✓		✓	✓		✓	✓	✓		✓											7	47
Acer pensylvanicum																							
Acer rubrum	✓						✓															1	7
Acer saccharum																							
Acer spicatum																							

[illegible]

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 86

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
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

STAND 86

~~✓~~ 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

Moss
 Lichens
 Carex pedunculata
 Equisetum arvense
 Carex alba
 Iris versicolor
 Osmunda - regalis - on upland
 Gentiana diphylla

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 86(1)

TREE SEEDLINGS

876431 *Abies balsamea*
Acer pensylvanicum
 7 *Acer rubrum*
Acer saccharum
Acer spicatum
Betula lutea
Betula papyrifera

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

Pinus strobus
Populus tremuloides
Prunus pensylvanica
Prunus serotina
 072 *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

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

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
Fragaria virginiana
Galium aparine
 057 *Galium triflorum*
 05 *Gaultheria hispida*
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
 07 *Maianthemum canadense*
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

0987653 *Mitella nuda*
Monotropa uniflora
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
 0 *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
Streptopus roseus
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
 5 *Viola renifolia*
Waldsteinia fragarioides
 5 *Viola incognita*

Additional species

Morales 1234567890
 Lichens 245679
Carex pedunculata 9
Carex elumina 0
Dicentra diphylla

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 86(2)

TREE SEEDLINGS

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
2/ 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

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

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
Fragaria vesca
Fragaria virginiana
Galium aparine
54 Galium triflorum
Gaultheria hispidula
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

54 Mitella nuda
Monotropa uniflora
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
5 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
4 Streptopus roseus
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
54 Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides
54 Viola in coginta

Additional species

Mordo 12345
Lubens 25
Habenaria hyperborea 1