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Site 6015 (Boreal Stand 15): Craigville, Koochiching County, Minnesota, Township 63N, Range 25W, Section 30. 1955-07-19

[s.l.]: [s.n.], 1955-07-19

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[= Site 6015]

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

STAND RECORD

FORESTS

Stand No. 15

Name: *Craigville Co. land*County: *Kodukung Minn.*Date: *July 19, 1953*Size of Stand: *15 acres*Forest Type: *spruce-fir-cedar*Topography: *flat - gentle rolling*

Locality:

T: *63*R: *25*Sec: *30*

Observers:

*PEM*Size of Area Sampled: *1500' transect.*

Soil Type:

Slope:

Directions

Condition of Stand:

Jan - few pine removed - the odd spruce quite some time ago
On deep peat - 12"
Only a small portion of stand worth studying - rest too badly cut-over
Stand reported by forester Robert Olson with M+O Paper Co.

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	<i>No data</i>								
A ₂									
B									

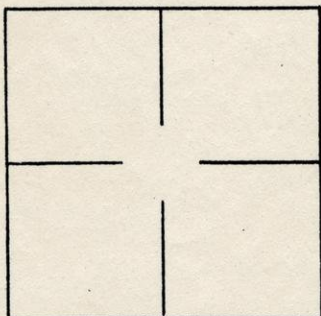
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	-----
A ₁	-----
A ₂	-----
B	-----

Parent Material:

Map:



Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

239.9

Spruce-fir
Northern Pine-Hardwoods

✓ Station Number: 15 - 1860

Mid range
IndexN. range
Index

TREE	# PTS	# TRS	DOM. CLASSES			TOT. DOM.	# SAP	D. % SAP	F. % SDL.	F. % TRS.	% SUM F. TR.	D. % TRS.	DOM% TRS.	DFD INDEX	(NEW LOWLAND INDEX) C. I.	
			-80	-320	321											
698.4 Abies bals	16	26				771	41	51.3		80.0	27.1	32.4	18.1	77.6	(349.2) 543.2	620.8
14.6 Acer rubru	2	2				64	1	1.3		10.0	3.4	2.4	1.5	7.3	(43.8) 43.8	36.5
A. sacchar																
9.0 A. spicatu							9	11.3							1.0	1.0
Betula lut																
139.0 B. papyrif	3	3				215				15.0	5.1	3.8	5.0	13.9	(69.5) 69.5	125.1
Carpinus c																
Fagus gran																
Ostrya vir																
470.0 Picea glau	9	9				877				45.0	15.2	11.3	20.5	47.0	(188.6) 282.6	470.0
Pinus Bank																
P. resinosa																
7.0 P. Strobus															1.0	1.0
32.4 Populus ba	1	1				24				5.0	1.7	1.3	0.6	3.6	(8.0) 9.2	32.4
P. grandid																
65.6 P. tremulo	1	1				220				5.0	1.7	1.3	5.2	8.2	(29.7) 16.4	73.8
Prunus pen																
Quercus el																
Q. rubra																
Tilia amer																
Tsuga cana																
804.0 Thuja occi	16	26				1746	5	6.2		80.0	27.1	32.5	40.9	100.5	(402.6) 703.5	703.5
Ulmus amer																
U. fulva																
148.0 Picea mar.	4	4				129				20.0	6.8	5.0	3.0	14.8	(29.6) 29.6	148.0
162.6 Frax. nig.	7	8				223	24	30.0		35.0	11.9	10.0	5.2	27.1	(135.5) 162.6	189.7
2551 TOTAL		80				4269	80	100.0		295.0	100.0	100.0	100.0	300.0	(1266) 1866	2401.8

AVE. DIST. BTW'N TREES:

5.6

AVE B. A.:

53.4

TREES/ACRE:

1387

DOM./ACRE:

74066

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 15(1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4 1/2' 32 9' 14	3 1/2' 32 4' 19		3' 18	4' 22	1 1/2' 22 10' 52		4' 42		8' 31 10' 55
Acer rubrum						4' 15				
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif										
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau		4' 82		3 1/2' 74			2' 108	2' 77	4' 58	4 1/2' 175
Pinus ^{monara} Bank					2 1/2' 14		4' 48			
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can				8' 168						
Thuja occ	2' 35 12' 67	2 1/2' 45	5 1/2' 75 5' 22	15' 91 2' 42	3' 11 1' 75	9 1/2' 14	3 1/2' 59	7 1/2' 85	10' 98 10' 76	4' 65
Ulmus amer										
U. fulva										
Max mg.			1 1/2' 16				4 1/2' 42	8 1/2' 15	2' 24	
LITTER	4"	6"	6"	7"	12"					
CANOPY	60%	45	50	45	60	10	15	55	50	65
Distance	17'	14'	20'	23 1/2'	10 1/2'	25'	14'	22'	26'	26 1/2'

Av. Canopy . 50%

Av. Litter . 6.5"

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 15(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4' 42 15' 50	4 1/2 19 8 22	3' 18 6 1/2 20	7 1/2 15	7' 44	3 1/2 22	4' 25 6' 32		8' 53	4' 110 3' 35
Acer rubrum				3' 35					6' 29	
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif			4' 52		6 1/2 87					5' 76
Carpinus car										
Fagus gran										
Ostrya virg										
Picea glau						5' 74		8' 109		7' 120
Pinus ^{mariana} Bank							7' 25	7' 42		
P. resinosa										
P. Strobus										
Populus bals				7 1/2 24						
P. grand										
P. trem					15' 120					
Prunus pen.										
Quercus ell										
Q. rubra										
Tilia amer										
Tsuga can										
Thuja occ	3' 105 1' 19			16' 98 18		10 59 5 74	7' 64	4' 34 6' 58	5' 109 4' 58	
Ulmus amer										
U. fulva										
Trax m9		2 1/2 18 4 32	8' 24		11' 52					
LITTER	peat	12"								
CANOPY	50	18	25	10	1	45	30	10	5	45
Distance	23'	19'	21 1/2'	34'	39 1/2'	23 1/2'	24'	25'	23'	19'

POINT RECORD TREES

SAPLINGS

NORTHERN PINE-HARDWOODS

Stand No. 15(1)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	9' 12"	7'	5' 6"	1' 2"	3 1/2' 8"	1' 1 1/2"	6' 7"	4' 7 1/2"	8'	10 1/2' 8 1/2"
Acer rubrum										
A. sacchar.										
A. spicatum										
Betula lut.										
B. papyrif										
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	10 1/2'			1 1/2'						
Ulmus amer										
U. fulva										
Frax. nigra	12 1/2'	4' 7"	5' 7"			3'	2 1/2'	1' 9"	3 1/2' 4"	3' 5" 2"
Distance	44'	23'	20'	5 1/2'	14 1/2'	13 1/2'	23 1/2'	21 1/2'	20 1/2'	24'

POINT RECORD TREES ^{SAPLINGS}

NORTHERN PINE-HARDWOODS

Stand No. 15(2)

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam	4 1/2 4 1/2	3 1/2 5	5' 4 1/2	12 7		2	4 3	2 3 1/2 4		5 1/2 2
Acer rubrum					8'					
A. sacchar.										
A. spicatum			4'	3 1/2 5	1 1/2 1 1/2	3'	5'		2' 3'	
Betula lut.										
B. papyrif										
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						3'			7'	6'
Ulmus amer										
U. fulva										
<i>Frax nigra</i>	2'	2 4	3 1/2			4 1/2 6		2'	3'	4'
Distance	14 1/2	14 1/2	17	27 1/2	13 1/2	15 1/2	14	11 1/2	15	17 1/2

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

									10									20	
Amelanchier spp.																			
Betula lutea																			
Betula papyrifera	✓	✓		✓	✓													3	30
Carpinus caroliniana																			
Crataegus spp.																			
Fagus grandifolia																			
Fraxinus americana																			
Fraxinus nigra	✓			✓			✓		✓	✓	✓							4	40
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																			
Thuja occidentalis																			
Tilia americana																			
Tsuga canadensis																			
Ulmus americana																			
Ulmus rubra																			
Ulmus thomasi																			
Grass spp.	✓																		1
Galium palustre	✓																		1
Campanula uliginosa	✓																		1
Ranunculus flabellaris	✓																		1
Veronica scutellata	✓																		1
Sphagnum spp.	✓		✓		✓		✓		✓	✓	✓	✓							65

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 15

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

Stand 15

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 bicknelli
 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

Erigeron sp.
 Goodyera repens
 Caltha palustris
 Lycopodium uniflorum
 Epilobium sp.
 Lysimachia spp.
 Lysimachia spp.
 Viola sp. - incognita
 Brachyelytrum erectum

Habenaria obtusata
 Cicuta maculata
 Carex disperma
 Glyceria striata
 Equisetum arvense var. boreale
 Galium trifidum
 Veronica scutellata
 Suum suave
 Ranunculus flabellaris

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 15 (1)

TREE SEEDLINGS

- 07431 *Abies balsamea*
 987543 *Acer pensylvanicum*
Acer rubrum
Acer saccharum
 8 *Acer spicatum*
Betula lutea
 431 *Betula papyrifera*

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

9863 *Inax. nigra*

SHRUBS

- 2 *Alnus rugosa*
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
 ✓ *Corylus cornuta*
Diervilla lonicera
Dirca palustris
Ilex verticillata
Ledum groenlandicum
 ✓ *Lonicera canadensis*
 8 *Sornera hirsuta*

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

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

- Rubus parviflorus*
Sambucus pubens
Shepherdia canadensis
Spiraea alba
Symphoricarpos occidentalis
Taxus canadensis
Vaccinium angustifolium
 51 *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
Aralia nudicaulis
Arisaema atrorubens
 8 *Aster macrophyllus*
Athyrium filix-femina
Botrychium virginianum
Carex pensylvanica
Chimaphila umbellata
Chrysanthemum leucanthemum
 7 *Circaea alpina*
Claytonia caroliniana
Claytonia virginiana
 856431 *Clintonia borealis* 9
 965421 *Coptis groenlandicum*
Corallorhiza maculata
 87631 *Cornus canadensis*
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris pheopteris

- 9 *Dryopteris spinulosa*
Epigaea repens
Epilobium angustifolium
Equisetum sylvaticum
Erythronium americanum
 08721 *Fragaria vesca*
Fragaria virginiana
Galium aparine

074 *Galium triflorum*

- 5 *Gaultheria hispidula*
Gaultheria procumbens
Gentiana quinquefolia
Geranium maculatum
Goodyera repens
Habenaria obtusata
 • *Halenia deflexa*
Hepatica acutiloba
Hepatica americana
Hieracium aurantiacum
 53 *Linnaea borealis*
 8 *Lycopodium annotinum*
Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum

- 0876431 *Maianthemum canadense*
Medeola virginiana
Melampyrum lineare
Mitchella repens
Mitella diphylla

- 6 *Monarda uniflora*
 9872 *Mitella nuda*
 2 *Monotropa uniflora*
Osmorhiza claytoni
Oxalis montana
Oxalis stricta
Polygala paucifolia
Polygonatum pubescens
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
 0 *Pyrola secunda*
Ranunculus acris
Rhus radicans
 9876421 *Rubus pubescens*
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
Streptopus roseus
Tiarella cordifolia
 08765432 *Trientalis borealis*
Trillium erectum
Trillium grandiflorum
Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides

Additional species

- Carex disperma*
 Small *Carex* 1234569
 Moss 1234567890
Lichens 125790
Calla palustris 2
 Small *Halenia* 240 obtusata
Carex m. pumila 35780
Brachyotum erectum 4
Mitella sp. siliqua 480 m109
Samolus sp. 7 arvense v borealis
Malvastrum divaricatum 7