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Site 6020 (Boreal Stand 20): Gheen, St. Louis County, Minnesota, Township 62N, Range 21W, Section 26. 1955-07-23

[s.l.]: [s.n.], 1955-07-23

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STAND RECORD

FORESTS

Stand No. 20

Name: *Sheen*
 County: *St. Louis, Minn.*
 Date: *July 23, 1955*
 Size of Stand: *40 acres*
 Forest Type: *Spruce-fir-aspen*
 Topography: *- Rolling*

Locality:
 T: *62* R: *21* Sec: *W. 1/2 Sec 26*
 Observers: *15 Miles W. of Sheen*
 Size of Area Sampled: *10 acres*
 Soil Type:
 Slope: Directions

Condition of Stand:

*Jan - never logged but somewhat open - with heavy ground cover of herbs + shrubs
 ground reget. probably burned at one time - few fire scars on large trees +
 heavy shrubs
 Stand not homogeneous + only 20 points taken in homogeneous portion - 10 acres
 of the 40 have been logged for popple
 Stand reported by Armand Johnston, Orr, Minnesota*

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									

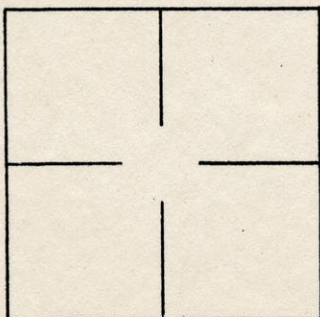
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

<i>#1 1" litter</i>	<i>#2 2" litter</i>
<i>2" - 1" ferment</i>	<i>3" 1" ferment</i>
<i>1/2" black</i>	<i>1" black</i>
<i>1 1/2" grey-black black</i>	<i>1 1/2" grey black leached</i>
<i>6" + compacted grey</i>	<i>6" + compacted grey</i>
<i>clay</i>	<i>white clay</i>

Parent Material:

Map:



LICHENS OF GREAT LAKES SPRUCE-FIR COMMUNITIES
MINNESOTA

St. Louis County



5 miles W. of Gheen - T262N R21W SEC 26.
White spruce, balsam & aspen. Rolling, fairly
level. Old stand, fairly open with heavy
ground cover.

July 23, 1955. Coll. Paul F. Maycock

Plant Ecology Research
TREE DATA SUMMARY SHEET

University of Wisconsin

201.6

Spruce-fir
Northern Pine-Hardwoods

✓ Station Number: 20 - 1476

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	19				2026	26	32.5		29.5 65.0	25.5	23.8	19.1	68.4	478.8
Acer rubru							2	2.5							
A. sacchar															
A. spicatu															
Betula lut															
B. papyrif	3	3				214				15.0 15.0	5.9	3.8	2.0	11.7	58.5
Carpinus c															
Fagus gran															
Ostrya vir															
Picea glau	17	27				5985	1	0.3		48.5 85.0	33.3	33.8	56.4	123.5	741.0
Picea mar. P. Banks	2	3				216				10.0 5.0	3.9	3.8	2.0	9.7	19.4
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo	16	28				2178	38	47.5		70.0 80.0	31.4	35.0	20.5	86.9	173.8
Prunus virg pen							1	1.3							1.0
Prunus pen. Quercus al															1.0
Q. rubra															
Tilia amer															
Tsuga cana															
Thuja occi															
Ulmus amer															
U. fulva															
Amelanchier							6	7.5							1.0
Alnus rugosa							6	7.5							1.0
Frax. nig.															1.0
TOTALS		80				10619	80	100.0		255.0	100.0	100.0	100.0	300.0	1476

AVE. DIST. BTW'N TREES:

14.4

AVE. B. A.:

132.7

TREES/ACRE:

210

DOM. /ACRE:

27,867

N. limit
Index.

547.2

105.3

1235.0

97.0

782.1

1.0

1.0

1.0

1.0

1.0

2771.6

STATION NO. SUBJECT	TREES										DATE	STAND NO.	20 (1)					
	1	2	3	4	5	6	7	8	9	10								
ABIES BAL	12' 9"	200 83	24'	75'	13'	18'					17' 4"	18' 25"	1' 20"	59 108			8' 27"	230 87
ACER R UB																		
A. BACC																		
A. SPIC																		
BETULA LUT																		
B. PAP																		
CARPINUS																		
FAGUS																		
FR AX NIG																		
OSTR YA																		
PICEA GL.	26 21	252 45	12'	135'	18'	125'	21 11 1/2	261 108	14'	250	12'	195'	4 1/2 3	201 265	30'	185'	12 1/2 10	292 220
P. MAR															14 1/2 56 105			
PINUS BANK																		
P. RES																		
P. STROB																		
POP BALS																		
P. GRAND																		
P. TREM	4 1/2 12 1/2	81 73	12' 11"	64 85	19' 7"	58 49	3 1/2 16 1/2 5	45 105 84	17'	35'			5'	125'	18 16	145 105	13 1/2 12 1/2 94	76 94
PRUNUS PEN																		
P. SEROT																		
P. VING																		
QUERCUS E LL																		
Q. MACRO																		
Q. RUBRA																		
T ILIA																		
TSUGA																		
THUJA																		
ULMUS AMER.																		
U. RUBRA																		
LITTER	2 1/2	2 1/2	2"	4"	2	1 1/2	3"	2"	2 1/2	2"								
CANOPY	5	10	2	5	5	5	45	1	55	30								
DIS TANCE	68	52 1/2	54	58 1/2	38 1/2	50	30 1/2	74	56 1/2	60 1/2								

STATION NO. SUBJECT	TREES										DATE	STAND NO.	20 (2)
	1	2	3	4	5	6	7	8	9	10			
ABIES BAL			8 1/2	134	6	182	9 1/2	215			14' 47		
ACER R UB											23' 76	15	302
A. SACO											8' 105	9 1/2	46
A. SPIG												4	16
BETULA LUT													
B. PAP		15 1/2	109				32	64		6	41		
CARPINUS													
FAGUS													
FR AX NIG													
OSTR YA	12' 305												
PICEA GL.	10' 482	25	256	26	258	35	205	8 1/2	86		11	242	24
P. MAR	27	17	124			21	242	5	264			107	9
PINUS BANK	28	322										7 1/2	55
P. RES													
P. STROB													
POP BALB													
P. GRAND													
P. TREM	27	105	23	120	24	225	18	19	6 1/2	84	16	76	8
PRUNUS PEN			23	114					14	18		24	42
P. SEROT												32	13 1/2
P. VING													86
QUERCUS E LL													41
Q. MACRO													
Q. RUBRA													
T ILIA													
TSUGA													
THUJA													
ULMUS AMER.													
U. RUBRA													
LITTER	3"	2 1/2	3 1/2	2"	2"	3"	2	2"	3"	2 1/2			
CANOPY	10	0	5	50	40	0	25	30	15	35			
DIS TANCE	74	89 1/2	74 1/2	54 1/2	41	69 1/2	56	61	49	40 1/2			

Av. Canopy - 20%

Av. ltr, 2.5"

SAPLINGS										DATE	STAND NO.	20 (1)
SUBJECT	STATION NO.	1	2	3	4	5	6	7	8	9	10	
ABIES BAL		21'	1 1/2' 8 1/2'	1 1/2' 4'	4'	16'	3 1/2' 6'	14' 18'	5'			
AGER R UB									7 1/2'			
A. SACO												
A. SPIC												
BETULA LUT												
B. PAP												
CARPINUS												
FAGUS												
FRAX NIG												
OSTREA												
PICEA GL												
P. MAR												
PINUS BANK												
P. RES												
P. STROB												
POP BAL												
P. GRAND												
P. TRE M		15 1/2' 20'		3'	5' 8' 6'	7' 8' 7 1/2'		21'		1 1/2' 20'	8' 18'	15'
PRUNUS PEN												
P. SEROT												
P. VING												
QUERCUS ELL												
Q. MACRO												
Q. RUBRA												
TILIA												
TSUGA												
THUJA												
ULMUS AMER												
U. RUB												
Alnus incana		8'							7'		7'	
Amelanchier									3'			
LITTER												
CANOPY												
DISTANCE		64 1/2	19	14 1/2	23	38 1/2	18	69	22 1/2	46	48	

STATION NO	SAMPLING S										DATE	STAND NO	20 (2)
	1	2	3	4	5	6	7	8	9	10			
SUBJECT													
ABIES BAL	35'			15'			24		8 1/2, 9	4 1/2 16			
ACER RUB	4'			13'									
A. SACO													
A. SPIC													
BETULA LUT													
B. PAP													
CARPINUS													
FAGUS													
FRAX NIG													
OSTR YA													
PICEA GIL								7'					
P. MAR													
PINUS BANK													
P. RES													
P. STR O													
POP BALS													
P. GRAND													
P. TREM	26'	13 10 1/2	6 15 1/2 25	14 11	23 22	8 5 6 4	14 22	19'	10 1/2 12	14 13			
PR UNUS PEN													
P. SEROT													
P. VIRG								12'					
QUERCUS E LL													
Q. MACRO													
Q. R UBRA													
TILIA													
TSUGA													
THUJA													
ULMUS AMER													
U. RUBRA													
Amelanchier	12'				1' 4'		10'	4'					
Alnus incana		5 2	8'										
LITTER													
CANOPY													
DISTANCE	73	30 1/2	54 1/2	53	50	23	70	42	40	47 1/2			

[illegible]

	P									10								20		
Carex disperma																				
Carex eburnea																				
Carex intumescens																				
Carex leptalea																				
Carex pedunculata																				
Carex pensylvanica	✓					✓	✓	✓	✓	✓									5	50
Carex projecta																				
Carex woodii																				
Carex spp.	✓																			1
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																				
Corallorhiza maculata																				
Corallorhiza striata																				
Corallorhiza trifida																				
Cornus alternifolia																				
Cornus canadensis	✓	✓					✓												2	20
Cornus racemosa	✓																			1
Cornus rugosa																				
Cornus stolonifera																				
Corydalis sempervirens																				
Corylus americana																				
Corylus cornuta	✓		✓				✓												2	20
Cryptotaenia canadensis																				
Cynoglossum boreale																				
Cynoglossum officinale																				
Cypripedium acaule																				
Cypripedium arietinum																				
Cypripedium calceolus																				
Cypripedium reginae																				
Cystopteris bulbifera																				
Cystopteris fragilis																				
Dalibarda repens																				

University of Wisconsin
STAND NO. 20

	P.									10								20		
Desmodium glutinosum																				
Dicentra canadensis																				
Dicentra cucullaria																				
Diervilla lonicera	✓	✓	✓				✓	✓		✓									5	50
Dirca palustris																				
Dryopteris boottii																				
Dryopteris cristata																				
Dryopteris disjuncta																				
Dryopteris goldiana																				
Dryopteris marginalis																				
Dryopteris noveboracensis																				
Dryopteris phegopteris																				
Dryopteris spinulosa	✓																			1
Empetrum nigrum																				
Epifagus virginiana																				
Epigaea repens																				
Epilobium angustifolium	✓																			1
Epilobium glandulosum																				
Epilobium strictum																				
Equisetum arvense																				
Equisetum pratense																				
Equisetum scirpoides																				
Equisetum sylvaticum	✓	✓																	1	10
Erigeron annuus																				
Erigeron philadelphicus																				
Erigeron strigosus																				
Erythronium albidum																				
Erythronium americanum																				
Eupatorium maculatum																				
Eupatorium perfoliatum																				
Eupatorium purpureum																				
Fagopyrum sagittatum																				
Festuca obtusa																				
Fragaria vesca	✓	✓	✓	✓						✓									4	40
Fragaria virginiana	✓																			
Galium aparine	✓																			1
Galium asprellum																				
Galium boreale	✓	✓	✓	✓	✓	✓				✓	✓	✓							8	80
Galium concinnum																				
Galium lanceolatum																				
Galium triflorum	✓	✓				✓	✓			✓									4	40
Gaultheria hispidula																				
Gaultheria procumbens																				
Gaylussacia baccata																				
Gentiana andrewsii																				
Gentiana crinata																				
Gentiana linearis																				
Gentiana quinquefolia																				
Geocaulon lividum																				
Geranium bicknelli																				
Geranium maculatum																				
Geranium robertianum																				

[illegible]

	P.									10								20		
Luzula multiflora																				
Lycopodium annotinum																				
Lycopodium clavatum	✓		✓	✓															2	20
Lycopodium complanatum																				
Lycopodium inundatum																				
Lycopodium lucidulum																				
Lycopodium obscurum																				
Lycopodium sabinaefolium																				
Lycopodium selago																				
Lycopodium tristachyum																				
Lycopus americanus																				
Lycopus uniflorus																				
Lysimachia ciliata																				
Lysimachia quadrifolia																				
Lysimachia terrestris																				
Maianthemum canadense	✓						✓		✓	✓									3	30
Malaxis unifolia																				
Medeola virginiana																				
Melampyrum lineare																				
Menispermum canadense																				
Mertensia paniculata	✓	✓																	1	10
Milium effusum																				
Mitchella repens																				
Mitella diphylla																				
Mitella nuda																				
Moneses uniflora																				
Monotropa hypopithys																				
Montropa uniflora																				
Mosses spp.	✓	✓	✓	✓	✓		✓			✓	✓								7	70
Nemopanthus mucronata																				
Onoclea sensibilis																				
Orchis spectabilis																				
Oryzopsis asperifolia																				
Oryzopsis racemosa																				
Osmorhiza claytoni																				
Osmorhiza longistylis																				
Osmunda claytoniana																				
Osmunda cinnamomea																				
Osmunda regalis																				
Oxalis montana																				
Oxalis stricta																				
Panax quinquefolius																				
Panax trifolius																				
Parthenocissus inserta																				
Parthenocissus quinquefolia																				
Petasites palmatus	✓	✓	✓							✓									3	30
Phleum pratense																				
Phlox divaricata																				
Phryma leptostachya																				
Plantago major																				
Poa compressa																				
Poa pratensis																				

[illegible]

[illegible]

Tree Seedlings

Grass spp.

PRESENCE LIST

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 20

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 grypsossepala*
- Agrostis perennans*
- Allium tricoccum*
- Amphicarpa bracteata*
- ✓ *Anaphlis 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 20

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

Mox
 Fuchse
 Wild Oats
 Brachyelytrum erectum
 Viny Borage - Mertensia paniculata
 Aster ciliolatus

FREQUENCY DATA
(Common Species)

SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 20 (1)

TREE SEEDLINGS

932/ Abies balsamea
Acer pensylvanicum
Acer rubrum
Acer saccharum
Acer spicatum
Betula lutea
Betula papyrifera

2 Amelanchier

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

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

8 Prunus v. v.

SHRUBS

Alnus rugosa
Arctostaphylos uva-ursi
Comptonia peregrina
Corylus americana
62 Corylus cornuta
0652/ Diervilla lonicera
Dirca palustris
Ilex verticillata
Ledum groenlandicum
Lonicera canadensis

Prunus pumila
Pyrus melanocarpa
1 Ribes cynosbati
Ribes glandulosum
Ribes lacustre
09752/ Rosa sp.
Rubus (blackberry)
Rubus (dewberry)
Rubus (raspberry)
5 Rubus idaeus

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

09753 V. n. n.

HERBS

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Anaphalis margaritacea
Anemone cylindrica
Anemone quinquefolia
Anemone virginiana
Antennaria spp.
3 Apocynum androsaemifolium
Aquilegia canadensis
087643/ Aralia nudicaulis
Arisaema atrorubens
9876432/ Aster macrophyllus 0
Athyrium filix-femina
Botrychium virginianum
98765/ Carex pensylvanica
Chimaphila umbellata
Chrysanthemum leucanthemum
Circaea alpina
Claytonia caroliniana
Claytonia virginiana
Clintonia borealis
Coptis groenlandicum
Corallorhiza maculata
61 Cornus canadensis
Cystopteris fragilis
Dicentra canadensis
Dicentra cucullaria
Dryopteris disjuncta
Dryopteris phegopteris

Dryopteris spinulosa
Epigaea repens
Epilobium angustifolium
1 Equisetum sylvaticum
Erythronium americanum
932/ Fragaria vesca
32 Fragaria virginiana
Galium aparine
965/ 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
32 Lycopodium clavatum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
097/ 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
9 Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus acris
Rhus radicans
098765432/ Rubus pubescens
Sanguinaria canadensis
Smilacina racemosa
Smilacina stellata
3 Streptopus roseus
Tiarella cordifolia
Trientalis borealis
Trillium erectum
Trillium grandiflorum
6 Uvularia sessilifolia
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Viola renifolia
Waldsteinia fragarioides

Additional species

Mosses 1234690
Lichens 28
Symphytum 1270
Petasites 129
Mertensia paniculata 1

Galium boreale 12345890
Asplenium 1
Wild Oats 19
Yucca amer. 23
Sarracenia 2456780
Lathyrus och. 20
Viola conspersa 3
Asarum 4 and 6
Solidago 9