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Site 3097: Washburn County. 1950-06-29

[s.l.]: [s.n.], 1950-06-29

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STAND RECORD

FORESTS

Stand No. E 3097

Name: *Washburn* Locality: *T: 37 N R: 11 W Sec: 9*
 County: *Washburn* Observers: *Cottam Brown Ternell Randall*
 Date: *June 29, 1950* Size of Area Sampled: *20 Acres*
 Size of Stand: *20 Acres* Soil Type: *Mellen Silt Loam*
 Forest Type: *Maple - Red oak - Basswood* Slope: _____ Directions: _____
 Topography: *Rolling*

Condition of Stand: *Spotty - some good, some poor, w/ few trees. No recent cutting, but old stumps visible. Reproduction heavy. Many saplings.*

No picture

Open Grown Trees: *none* % Canopy: *90*

Stumps:

1.	4.	7.	10.
2.	5.	8.	11.
3.	6.	9.	12.

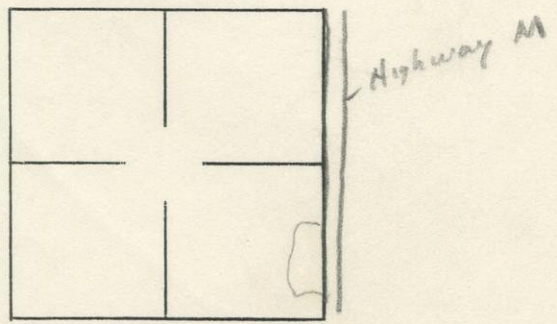
Soil Data:

	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 <i>1/2"</i>	<i>Mull</i>
A ₁ <i>1-2"</i>	<i>Black loam</i>
A ₂	<i>not distinguishable</i>
B	<i>light brown - fine sand</i>

Parent Material:

Map:



No vernalis - 5/52

Prob = .78

Buttercup

3097

1 35

30

1 65 @

1 65 *

bur oak
3097

65

65 *

Slippery

elm

3097

37

160

55

252 (1)

45

297 *

amely

3097

1	15	
1	15	⊙
	22	
	20	
	75	
	30	
2	62	*

amash

3097

75

75 (a)

80

72

227 *

yellow
birch
3297

80
45
1 25 ①
90 —
1 10 —
1 45 —
14
4 84 *

black

ash

3097

65

65 ④

65

13

50

20

2 13 *

0 Kanya

3097

20

13

30

20

83 ①

15

23

28

16

13

22

35

2 35 *

Conye
Card

3097

20

55

80

45

24

2 24 (1)

60

19

40

26

19

3 88 *

Totals

2 Trees

3097

4 5 50

1 25

75

65

83

2 5 12

1 2 92

1 15

2 52

1 65

2 24

9 4 58 *

Totals

4 Trees

3097

8515

484

227

213

235

18

3661

2242

262

297

65

165

388

16772

distances

3097

1	30
1	35
2	45
1	90
2	85
	85
1	90
1	90
1	75
1	00
2	90
1	25
1	85
2	30
2	75
1	90
	80
2	10
1	80
1	60
1	80
1	20
2	15
3	50
2	20
1	45
1	45
2	45
1	90
3	25
1	85
1	90
2	05
2	70
2	60
1	05
2	45
1	95
1	35
3	35
7	9 10 *

Tilia

3097

1 85

~~45~~

1 25

~~40~~

~~40~~

27

1 25

15

2 65

1 90

2 30

85

1 2 92 (1)

70

25

29

1 30

40

1 55

21

95

25

15

18

1 40

65

47

75

2 2 42 *

red oak
3097

	2	80	✓
		15	
	1	00	✓
	1	40	✓
	1	85	✓
	1	50	✓
	1	30	✓
	1	05	✓
		55	
	4	35	✓
		62	
	1	20	✓
		50	
		12	
		23	
	2	20	✓
		30	
	1	10	✓
		45	
		65	
	1	15	✓
		65	
	2	5	12 (1)
		37	
	1	70	✓
	1	90	✓
	1	85	✓
	1	00	✓
		32	
		65	
		20	
		21	
		14	
	1	05	✓
		65	
		50	
		95	✓
	3	6	61 *

sugar
maple
3097

50
1 80
1 75
1 75
2 30
1 25
1 00
1 85
1 55
1 40
50
50
85
2 25
2 10
1 60
2 70 1 50
1 90
2 10
1 20
2 10
2 05
20
1 20
1 30
1 30
1 90
3 10
4 2 80
3 90
1 75
85
2 20
2 45
1 90
2 80
2 10
40
2 70
2 10
1 20
1 75
2 50
1 95
50
2 85
2 00
40
1 20
90
1 25

~~8245*~~

8515

whitely
oak

3097

18

18 *

TREE DATA SUMMARY SHEET

2 Trees

Prob. 78

Northern Pine-Hardwoods

Station Number: 3097

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															
Acer rubru							4	2.5	4						
A. sacchar	24	29	4	25		4550	45	28.1	20		34.9	36.3	48.1	119.2	1192
A. spicatu															
Betula lut	2	2	2			125	1	0.6			2.9	2.5	1.3	6.7	54
B. papyrif							9	5.6							
Cardinus c	1	1	1			75			2		1.4	1.3	0.8	3.5	28
Fagus gran	1	1	1			65			1		1.4	1.3	0.7	3.4	20
Ostrya vir	4	4	4			83	46	28.8	12		5.8	5.0	0.9	11.7	105
Picea glau															
Pinus Bank															
P. resinosa															
P. Strobus															
Populus ba															
P. grandid															
P. tremulo															
Prunus pen															
Quercus alba							1	0.6							
Q. rubra	17	22	10	11		12512	2	1.3	2		24.6	27.5	26.6	78.7	472
Tilia amer	10	10	3	7		1282	7	4.4	5		14.5	12.5	13.7	40.7	326
Tsuga cana															
Thuja occi															
Ulmus amer	1	1		1		115					1.4	1.3	1.2	3.9	31
U. fulva	3	3	2	1		252	2	1.3	1		4.3	3.8	2.7	10.8	84
Juglans cin	2	2	1	1		165					2.9	2.5	1.7	7.1	36
Caryacord	4	5	5			224	43	26.9	7		5.8	6.3	2.4	14.5	116
	69	80	33	46		19458	160	100.1			99.8	100.3	100.1	300.2	2466

2350

AVE. DIST. BTW'N TREES:

19.8

AVE. B. A.:

118.2

TREES/ACRE:

128

DOM./ACRE:

15,130

F 3097

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No.

STATION NO.	1	2	3	4	5	6	7	8	9	10
Abies balsam										
Acer rubrum										
A. sacchar.	(240)	✓ 50/80 ✓ (15) (25)	✓ 175, 179 ✓ 2	✓	✓ 4	✓ 4	✓ 3	✓ 2	230 ✓ 1	(220) ✓ 2
A. spicatum	(90)			(110)						
Betula lut.				1						
B. papyrif										
Carpinus car			1							
Fagus gran										
Ostrya virg	✓ 3	✓		✓ 20 3 (15) (23) ✓				✓		
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra	260			(37) ✓	15	100, 40	185	150	130 (170)	
Tilia amer	185	1	✓			(78) 25 ✓		(29)	45	1
Tsuga can										
Thuja occ										
Ulmus amer										
U. fulva					57					
Carya cordif.		✓ 20 3 (15) ✓	✓			55 (60)	✓ 19 1 (40)	✓ 26 2		1 ✓
Frax. nigra		65 (13)				50				2 ✓
Juglans cinerea								135		
Distance	13	13,5	24,5	19	28,5	2,5	19	19	17,5	10

9 5
5 3

9 7
7 6

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 2602

1. 3097
2602

STATION NO.	11	12	13	14	15	16	17	18	19	20
Abies balsam										
Acer rubrum		✓	✓			✓	✓			
A. sacchar.	125 ✓ 1	100 245 ✓	✓	145 190 ✓	155 280 ✓	140 210 ✓	50 ✓	50 40 ✓	85 ✓	225 ✓
A. spicatum										
Betula lut.					145					
B. papyrif										
Carpinus car			1				1	1		
Fraxinus gran Fagus gran								80 ✓	✓	
Ostrya virg		✓ 4	✓ 1	13 1	30 1		28	✓	✓ 2	✓ 4
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen. serotina						✓				
Quercus ell										
Q. rubra	105 190		55 435							62 185 200 ✓
Tilia amer		125 130	40	255	1	27		125	15 95	2
Tsuga can										
Juglans cinerea Thuja occ.							30			
Ulmus amer						22				
U. fulva									✓	
Quercus alba	18									
Carya cordifolia				2	2	1	3	19	3	2
Quercus macrocarpa			65							
Distance	29	12.5	18.5	23	27.5	19	8	21	18	16

14 9
9 9

7 4
3 3

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. 3097

STATION NO.	21	22	23	24	25	26	27	28	29	30
Abies balsam										
Acer rubrum										
A. sacchar.	210	(270)	160	270 (210)	150	190 2 (120)	210 120 (175)	210 3	(250) 17	(195) 3
A. spicatum										
Betula lut.					80			45 (14)		
B. papyrif										
Carpinus car				1				2	1	
Fagus gran										
Ostrya virg			(16)	2	2	(13)	1	2		
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra	120 (32)	50 12 (15)	(20)	23 (21)					220 30	110 (14) 1
Tilia amer	(25)				15 (18)	265			(140)	190
Tsuga can										
Thuja occ										
Ulmus amer			115				(20)			
U. fulva										
Coryna cord	4	4	3	1			2			
Frax nigra								(20)		
Distance	18	12	21.5	35	22	14.5	14.5	24.5	19	32.5

148
107

127
65

POINT RECORD TREES

NORTHERN PINE-HARDWOODS

Stand No. **309**

STATION NO.	31	32	33	34	35	36	37	38	39	40
Abies balsam										
Acer rubrum										
A. sacchar.	200 (50)		(200)	2 (20)	4	1 (120) (90)	3	(120) (125)	130 130	190 310
A. spicatum										
Betula lut.										
B. papyrif										
Carpinus car	1									
Fagus gran										
Ostrya virg	1 (20) (22)	2			3	2	(35)	3	4	4
Picea glau										
Pinus Bank										
P. resinosa										
P. Strobus										
Populus bals										
P. grand										
P. trem										
Prunus pen.										
Quercus ell										
Q. rubra	45		(105)		(65)	65	115 65			(50) (95)
Tilia amer		230	85		(65)		(47)		(75)	
Tsuga can										
Thuja occ										
Ulmus amer		(75)							(30)	
U. fulva				1 (45)		160		55		
Carya cordiformi	1	1	1	80	45 24		2	1	1	
Fraxinus amer			75				(72)			
Distance	18.5	19	20.5	27	26	10.5	24.5	19.5	13.5	33.5

$\frac{14}{7} \frac{7}{5}$

$\frac{8}{6} \frac{4}{3}$

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097
Quadrat No. 1

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	✓Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
✓Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	✓Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
✓Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	✓Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	✓Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	✓Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

Apocynum androsaem.

Ampelocera

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3091
Quadrat No. 2

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	✓ Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
✓ Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	✓ Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
Aster macrophyllum	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
✓ Athyrium angustum sp.	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	✓ Trillium grandiflorum
✓ Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

Desmodium acuminatum

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. E 5091
Quadrat No. 3

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
✓ Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
✓ Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	✓ Hepatica americana	Rubus (blackberry)
✓ Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	✓ Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

✓ Schizachne
Panicum

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. ⁴
Quadrat No. ⁴

Actaea pachypoda
 Actaea rubra
 ✓ Adiantum pedatum
 Allium tricoccum
 ✓ Anemone quinquefolia
 Aquilegia canadensis
 Aralia nudicaulis
 Aralia racemosa
 Arisaema atrorubens
 ✓ Aster macrophyllus
 Aster sagittifolius
 Athyrium angustum
 Botrychium virginianum
 Brachyelytrum erectum
 Carex albursina
 Caulophyllum thalictroides
 Chimaphila umbellata
 Circaea alpina
 Circaea latifolia
 Clintonia borealis
 Coptis trifolia
 Corallorrhiza maculata
 Cornus alternifolia
 Cornus canadensis
 Cornus rugosa
 Corylus americana
 Corylus cornuta
 Cypridium acaule
 Diervilla lonicera
 Dirca palustris
 Dryopteris linnaeana
 Dryopteris phegopteris
 Dryopteris spinulosa
 Epifagus virginiana
 Epigaea repens

Fragaria virginiana
 Galium lanceolatum
 Galium triflorum
 Gaultheria procumbens
 Gaylussacia baccata
 Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Helianthemum sp.
 Helianthus strumosus
 Hepatica acutiloba
 ✓ Hepatica americana
 Impatiens biflora
 Linnaea borealis
 Lonicera oblongifolia
 Lupinus perennis
 Lycopodium annotinum
 Lycopodium complanatum
 Lycopodium lucidulum
 Lycopodium obscurum
 Lysimachia quadrifolia
 Maianthemum canadense
 Mitchella repens
 Mitella diphylla
 Mitella nuda
 Monotropa uniflora
 Myrica asplenifolia
 Onoclea sensibilis
 Oryzopsis asperifolia
 Osmorhiza claytoni
 Oxalis montana
 Phryma leptostachya
 Polygala pauciflora
 Polygonatum commutatum
 Polygonatum pubescens

Potentilla simplex
 Prenanthes alba
 Pteridium aquilinum
 Pyrola elliptica
 Pyrola rotundifolia
 Pyrola secunda
 Ranunculus recurvatus
 Rhus radicans
 Ribes americanum
 Rosa sp.
 Rubus parviflorus
 Rubus (blackberry)
 Rubus (dewberry)
 Sambucus pubens
 Sanguinaria canadensis
 Sanicula gregaria
 Smilacina racemosa
 Smilacina stellata
 Smilax ecirrhata
 Solidago ulmifolia
 Streptopus roseus
 Taxus canadensis
 Thalictrum dioicum
 ✓ Trientalis borealis
 ✓ Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 ✓ Viburnum acerifolium
 Viola canadensis
 Viola cucullata
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides

✓ *Ampelopsis*✓ *Prunus virg.*
✓ *hugula*

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 6 3097
Quadrat No. 5

Actaea pachypoda
 Actaea rubra
 Adiantum pedatum
 Allium tricoccum
 ✓ Anemone quinquefolia
 Aquilegia canadensis
 Aralia nudicaulis
 Aralia racemosa
 Arisaema atrorubens
 Aster macrophyllus
 Aster sagittifolius
 Athyrium angustum
 Botrychium virginianum
 Brachyelytrum erectum
 Carex albursina
 Caulophyllum thalictroides
 Chimaphila umbellata
 Circaea alpina
 Circaea latifolia
 Clintonia borealis
 Coptis trifolia
 Corallorrhiza maculata
 Cornus alternifolia
 Cornus canadensis
 Cornus rugosa
 Corylus americana
 Corylus cornuta
 Cyripedium acaule
 Diervilla lonicera
 Dirca palustris
 Dryopteris linnaeana
 Dryopteris phegopteris
 Dryopteris spinulosa
 Epifagus virginiana
 Epigaea repens

Fragaria virginiana
 Galium lanceolatum
 Galium triflorum
 Gaultheria procumbens
 Gaylussacia baccata
 ✓ Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Helianthemum sp.
 Helianthus strumosus
 Hepatica acutiloba
 ✓ Hepatica americana
 Impatiens biflora
 Linnaea borealis
 Lonicera oblongifolia
 Lupinus perennis
 Lycopodium annotinum
 Lycopodium complanatum
 Lycopodium lucidulum
 Lycopodium obscurum
 Lysimachia quadrifolia
 Maianthemum canadense
 Mitchella repens
 ✓ Mitella diphylla
 Mitella nuda
 Monotropa uniflora
 Myrica asplenifolia
 Onoclea sensibilis
 Oryzopsis asperifolia
 ✓ Osmorhiza claytoni
 Oxalis montana
 Phryma leptostachya
 Polygala pauciflora
 Polygonatum commutatum
 ✓ Polygonatum pubescens

Potentilla simplex
 Prenanthes alba
 Pteridium aquilinum
 Pyrola elliptica
 Pyrola rotundifolia
 Pyrola secunda
 Ranunculus recurvatus
 Rhus radicans
 Ribes americanum
 Rosa sp.
 Rubus parviflorus
 Rubus (blackberry)
 Rubus (dewberry)
 Sambucus pubens
 ✓ Sanguinaria canadensis
 Sanicula gregaria
 Smilacina racemosa
 Smilacina stellata
 Smilax ecirrhata
 Solidago ulmifolia
 Streptopus roseus
 Taxus canadensis
 Thalictrum dioicum
 Trientalis borealis
 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 Viburnum acerifolium
 Viola canadensis
 Viola cucullata
 Viola pallens
 # Viola pubescens
 Waldsteinia fragarioides

Amphispiza
 hathyris?

✓ Solidago latifolia
 ✓ Viola vacillans

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3007
Quadrat No. 3097

Actaea pachypoda
Actaea rubra
✓ Adiantum pedatum
Allium tricoccum
✓ Anemone quinquefolia
Aquilegia canadensis
Aralia nudicaulis
Aralia racemosa
Arisaema atrorubens
Aster macrophyllus
Aster sagittifolius
Athyrium angustum
Botrychium virginianum
Brachyelytrum erectum
Carex albursina
Caulophyllum thalictroides
Chimaphila umbellata
Circaea alpina
Circaea latifolia
Clintonia borealis
Coptis trifolia
Corallorrhiza maculata
Cornus alternifolia
Cornus canadensis
Cornus rugosa
Corylus americana
Corylus cornuta
Cypripedium acaule
Diervilla lonicera
Dirca palustris
Dryopteris linnaeana
Dryopteris phegopteris
Dryopteris spinulosa
Epifagus virginiana
Epigaea repens

Fragaria virginiana
Galium lanceolatum
Galium triflorum
Gaultheria procumbens
Gaylussacia baccata
✓ Geranium maculatum
Geum canadense
Gnaphalium obtusifolium
Helianthemum sp.
Helianthus strumosus
Hepatica acutiloba
✓ Hepatica americana
Impatiens biflora
Linnaea borealis
Lonicera oblongifolia
Lupinus perennis
Lycopodium annotinum
Lycopodium complanatum
Lycopodium lucidulum
Lycopodium obscurum
Lysimachia quadrifolia
Maianthemum canadense
Mitchella repens
Mitella diphylla
Mitella nuda
Monotropa uniflora
Myrica asplenifolia
Onoclea sensibilis
Oryzopsis asperifolia
Osmorhiza claytoni
Oxalis montana
Phryma leptostachya
Polygala pauciflora
Polygonatum commutatum
Polygonatum pubescens

Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Pyrola rotundifolia
Pyrola secunda
Ranunculus recurvatus
Rhus radicans
Ribes americanum
Rosa sp.
Rubus parviflorus
Rubus (blackberry)
Rubus (dewberry)
Sambucus pubens
Sanguinaria canadensis
Sanicula gregaria
Smilacina racemosa
Smilacina stellata
Smilax ecirrhata
Solidago ulmifolia
Streptopus roseus
Taxus canadensis
✓ Thalictrum dioicum
Trientalis borealis
✓ Trillium grandiflorum
Uvularia grandiflora
Uvularia sessilifolia
Vaccinium angustifolium
Vaccinium pennsylvanicum
Viburnum acerifolium
Viola canadensis
Viola cucullata
Viola pallens
Viola pubescens
Waldsteinia fragarioides

huzzula
Prunus veg.
Amphicarpus

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No.
 Quadrat No.
 3097

Actaea pachypoda
 Actaea rubra
 Adiantum pedatum
 Allium tricoccum
 ✓ Anemone quinquefolia
 Aquilegia canadensis
 Aralia nudicaulis
 Aralia racemosa
 Arisaema atrorubens
 ✓ Aster macrophyllus
 Aster sagittifolius
 Athyrium angustum
 Botrychium virginianum
 Brachyelytrum erectum
 Carex albursina
 Caulophyllum thalictroides
 Chimaphila umbellata
 Circaea alpina
 Circaea latifolia
 Clintonia borealis
 Coptis trifolia
 Corallorrhiza maculata
 Cornus alternifolia
 Cornus canadensis
 Cornus rugosa
 Corylus americana
 Corylus cornuta
 Cypripedium acaule
 Diervilla lonicera
 Dirca palustris
 Dryopteris linnaeana
 Dryopteris phegopteris
 Dryopteris spinulosa
 Epifagus virginiana
 Epigaea repens

Fragaria virginiana
 Galium lanceolatum
 Galium triflorum
 Gaultheria procumbens
 Gaylussacia baccata
 ✓ Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Helianthemum sp.
 Helianthus strumosus
 Hepatica acutiloba
 Hepatica americana
 Impatiens biflora
 Linnaea borealis
 Lonicera oblongifolia
 Lupinus perennis
 Lycopodium annotinum
 Lycopodium complanatum
 Lycopodium lucidulum
 Lycopodium obscurum
 Lysimachia quadrifolia
 Maianthemum canadense
 Mitchella repens
 Mitella diphylla
 Mitella nuda
 Monotropa uniflora
 Myrica asplenifolia
 Onoclea sensibilis
 Oryzopsis asperifolia
 Osmorhiza claytoni
 Oxalis montana
 Phryma leptostachya
 Polygala pauciflora
 Polygonatum commutatum
 Polygonatum pubescens

Potentilla simplex
 Prenanthes alba
 Pteridium aquilinum
 Pyrola elliptica
 Pyrola rotundifolia
 Pyrola secunda
 Ranunculus recurvatus
 Rhus radicans
 Ribes americanum
 Rosa sp.
 Rubus parviflorus
 Rubus (blackberry)
 Rubus (dewberry)
 Sambucus pubens
 Sanguinaria canadensis
 Sanicula gregaria
 Smilacina racemosa
 Smilacina stellata
 Smilax ecirrhata
 Solidago ulmifolia
 Streptopus roseus
 Taxus canadensis
 ✓ Thalictrum dioicum
 Trientalis borealis
 2 Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 Viburnum acerifolium
 Viola canadensis
 Viola cucullata
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides

Amphicarpa
 hirsuta

Solidago latifolia

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No.
Quadrat No. 3097
8

✓ Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	✓ Ribes americanum <i>cyrostatum</i>
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
✓ Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
✓ Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	✓ Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	✓ Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

Solidago latifolia
Luzula
Prunus veng.

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3007
Quadrat No. 9

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	✓ Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
✓ Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	✓ Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	✓ Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	✓ Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	✓ Polygonatum pubescens	Waldsteinia fragarioides

Desmod. acuminatum

Ranunculus abortivus

Amphicarpus

hirsuta

Carex sp.

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097

Quadrat No. 10

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

Amphicarpus

~~Pyrola rotundifolia~~

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097
Quadrat No. 11

<i>Actaea pachypoda</i>	<i>Fragaria virginiana</i>	<i>Potentilla simplex</i>
<i>Actaea rubra</i>	<i>Galium lanceolatum</i>	<i>Prenanthes alba</i>
<i>Adiantum pedatum</i>	<i>Galium triflorum</i>	<i>Pteridium aquilinum</i>
<i>Allium tricoccum</i>	<i>Gaultheria procumbens</i>	<i>Pyrola elliptica</i>
<i>Anemone quinquefolia</i>	<i>Gaylussacia baccata</i>	<i>Pyrola rotundifolia</i>
<i>Aquilegia canadensis</i>	<i>Geranium maculatum</i>	<i>Pyrola secunda</i>
<i>Aralia nudicaulis</i>	<i>Geum canadense</i>	<i>Ranunculus recurvatus</i>
<i>Aralia racemosa</i>	<i>Gnaphalium obtusifolium</i>	<i>Rhus radicans</i>
<i>Arisaema atrorubens</i>	<i>Helianthemum sp.</i>	<i>Ribes americanum</i>
<i>Aster macrophyllus</i>	<i>Helianthus strumosus</i>	✓ <i>Rosa sp.</i>
<i>Aster sagittifolius</i>	<i>Hepatica acutiloba</i>	<i>Rubus parviflorus</i>
<i>Athyrium angustum</i>	<i>Hepatica americana</i>	<i>Rubus (blackberry)</i>
<i>Botrychium virginianum</i>	<i>Impatiens biflora</i>	<i>Rubus (dewberry)</i>
<i>Brachyelytrum erectum</i>	<i>Linnaea borealis</i>	<i>Sambucus pubens</i>
<i>Carex albursina</i>	<i>Lonicera oblongifolia</i>	<i>Sanguinaria canadensis</i>
<i>Caulophyllum thalictroides</i>	<i>Lupinus perennis</i>	<i>Sanicula gregaria</i>
<i>Chimaphila umbellata</i>	<i>Lycopodium annotinum</i>	<i>Smilacina racemosa</i>
<i>Circaea alpina</i>	<i>Lycopodium complanatum</i>	<i>Smilacina stellata</i>
<i>Circaea latifolia</i>	<i>Lycopodium lucidulum</i>	<i>Smilax ecirrhata</i>
<i>Clintonia borealis</i>	<i>Lycopodium obscurum</i>	<i>Solidago ulmifolia</i>
<i>Coptis trifolia</i>	<i>Lysimachia quadrifolia</i>	<i>Streptopus roseus</i>
<i>Corallorrhiza maculata</i>	<i>Maianthemum canadense</i>	<i>Taxus canadensis</i>
<i>Cornus alternifolia</i>	<i>Mitchella repens</i>	<i>Thalictrum dioicum</i>
<i>Cornus canadensis</i>	<i>Mitella diphylla</i>	<i>Trientalis borealis</i>
<i>Cornus rugosa</i>	<i>Mitella nuda</i>	<i>Trillium grandiflorum</i>
<i>Corylus americana</i>	<i>Monotropa uniflora</i>	<i>Uvularia grandiflora</i>
✓ <i>Corylus cornuta</i>	<i>Myrica asplenifolia</i>	<i>Uvularia sessilifolia</i>
<i>Cypripedium acaule</i>	<i>Onoclea sensibilis</i>	<i>Vaccinium angustifolium</i>
<i>Diervilla lonicera</i>	<i>Oryzopsis asperifolia</i>	<i>Vaccinium pennsylvanicum</i>
<i>Dirca palustris</i>	<i>Osmorhiza claytoni</i>	<i>Viburnum acerifolium</i>
<i>Dryopteris linnaeana</i>	<i>Oxalis montana</i>	<i>Viola canadensis</i>
<i>Dryopteris phegopteris</i>	<i>Phryma leptostachya</i>	<i>Viola cucullata</i>
<i>Dryopteris spinulosa</i>	<i>Polygala pauciflora</i>	<i>Viola pallens</i>
<i>Epifagus virginiana</i>	<i>Polygonatum commutatum</i>	<i>Viola pubescens</i>
<i>Epigaea repens</i>	<i>Polygonatum pubescens</i>	<i>Waldsteinia fragarioides</i>

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097
Quadrat No. 12

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
✓ Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	✓ Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	✓ Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	✓ Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	(Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides
✓ <i>Amphicarpa bracteata</i>		
✓ <i>Solidago latifolia</i>		
✓ <i>Luzula campestris</i>		
✓ <i>Desmodium acuminatum</i>		

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 63091
Quadrat No. 13

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
✓ Adiantum pedatum	Galium triflorum	✓ Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
✓ Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
✓ Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
✓ Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	✓ Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	✓ Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

✓ Luzula campestris
✓ Osmunda claytoniana

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097
Quadrat No. 14

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	✓ Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
✓ Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	✓ Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	✓ Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	✓ Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	✓ Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides
✓ Luzula campestris		
✓ Amphicarpa bracteata		
✓ Desmodium acuminatum		

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097
Quadrat No. 15

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
✓ Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	✓ Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	✓ Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	✓ Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	✓ Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	✓ Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides
✓ Solidago latifolia		
✓ Osmunda claytoniana		
✓ Permodium acuminatum		
✓ Lygula campestris		

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097
Quadrat No. 16

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
✓ Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	✓ Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
✓ Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides
✓ Desmodium acuminatum		
✓ Amphicarpa bracteata		
✓ Lyzula campestris		
✓ Carex pennsylvanica		

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No.
Quadrat No. 17

E 3091

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
✓ Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
✓ Arisaema atrorubens	Helianthemum sp.	Ribes americanum
Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
✓ Athyrium angustum	Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	✓ Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

✓ Amphicarpa bracteata

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097
Quadrat No. 16

- Actaea pachypoda
 Actaea rubra
 ✓ Adiantum pedatum
 Allium tricoccum
 ✓ Anemone quinquefolia
 Aquilegia canadensis
 ✓ Aralia nudicaulis
 Aralia racemosa
 Arisaema atrorubens
 Aster macrophyllus
 Aster sagittifolius
 Athyrium angustum
 Botrychium virginianum
 Brachyelytrum erectum
 Carex albursina
 Caulophyllum thalictroides
 Chimaphila umbellata
 Circaea alpina
 Circaea latifolia
 Clintonia borealis
 Coptis trifolia
 Corallorrhiza maculata
 Cornus alternifolia
 Cornus canadensis
 Cornus rugosa
 Corylus americana
 Corylus cornuta
 Cypripedium acaule
 Diervilla lonicera
 Dirca palustris
 Dryopteris linnaeana
 Dryopteris phegopteris
 Dryopteris spinulosa
 Epifagus virginiana
 Epigaea repens
 ✓ *amphicarpa bracteata*
 ✓ *Desmodium acuminatum*
 ✓ *Samolus elaeagnifolius*
- Fragaria virginiana
 Galium lanceolatum
 Galium triflorum
 Gaultheria procumbens
 Gaylussacia baccata
 Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Helianthemum sp.
 Helianthus strumosus
 Hepatica acutiloba
 ✓ Hepatica americana
 Impatiens biflora
 Linnaea borealis
 Lonicera oblongifolia
 Lupinus perennis
 Lycopodium annotinum
 Lycopodium complanatum
 Lycopodium lucidulum
 Lycopodium obscurum
 Lysimachia quadrifolia
 Maianthemum canadense
 Mitchella repens
 Mitella diphylla
 Mitella nuda
 Monotropa uniflora
 Myrica asplenifolia
 Onoclea sensibilis
 Oryzopsis asperifolia
 Osmorhiza claytoni
 Oxalis montana
 Phryma leptostachya
 Polygala pauciflora
 Polygonatum commutatum
 Polygonatum pubescens
- Potentilla simplex
 Prenanthes alba
 Pteridium aquilinum
 Pyrola elliptica
 Pyrola rotundifolia
 Pyrola secunda
 Ranunculus recurvatus
 Rhus radicans
 Ribes americanum
 Rosa sp.
 Rubus parviflorus
 Rubus (blackberry)
 Rubus (dewberry)
 Sambucus pubens
 Sanguinaria canadensis
 ✓ Sanicula gregaria
 Smilacina racemosa
 Smilacina stellata
 Smilax ecirrhata
 Solidago ulmifolia
 Streptopus roseus
 Taxus canadensis
 ✓ Thalictrum dioicum
 Trientalis borealis
 ✓ Trillium grandiflorum
 Uvularia grandiflora
 Uvularia sessilifolia
 Vaccinium angustifolium
 Vaccinium pennsylvanicum
 ✓ Viburnum acerifolium
 Viola canadensis
 Viola cucullata
 Viola pallens
 Viola pubescens
 Waldsteinia fragarioides

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097
Quadrat No. 19

- | | | |
|----------------------------|-------------------------|--------------------------|
| Actaea pachypoda | Fragaria virginiana | Potentilla simplex |
| Actaea rubra | Galium lanceolatum | Prenanthes alba |
| ✓ Adiantum pedatum | Galium triflorum | Pteridium aquilinum |
| Allium tricoccum | Gaultheria procumbens | Pyrola elliptica |
| ✓ Anemone quinquefolia | Gaylussacia baccata | Pyrola rotundifolia |
| Aquilegia canadensis | Geranium maculatum | Pyrola secunda |
| Aralia nudicaulis | Geum canadense | Ranunculus recurvatus |
| Aralia racemosa | Gnaphalium obtusifolium | Rhus radicans |
| Arisaema atrorubens | Helianthemum sp. | Ribes americanum |
| Aster macrophyllus | Helianthus strumosus | Rosa sp. |
| Aster sagittifolius | Hepatica acutiloba | Rubus parviflorus |
| Athyrium angustum | Hepatica americana | Rubus (blackberry) |
| Botrychium virginianum | Impatiens biflora | Rubus (dewberry) |
| Brachyelytrum erectum | Linnaea borealis | Sambucus pubens |
| Carex albursina | Lonicera oblongifolia | Sanguinaria canadensis |
| Caulophyllum thalictroides | Lupinus perennis | Sanicula gregaria |
| Chimaphila umbellata | Lycopodium annotinum | Smilacina racemosa |
| Circaea alpina | Lycopodium complanatum | Smilacina stellata |
| Circaea latifolia | Lycopodium lucidulum | Smilax ecirrhata |
| Clintonia borealis | Lycopodium obscurum | Solidago ulmifolia |
| Coptis trifolia | Lysimachia quadrifolia | Streptopus roseus |
| Corallorrhiza maculata | Maianthemum canadense | Taxus canadensis |
| Cornus alternifolia | Mitchella repens | ✓ Thalictrum dioicum |
| Cornus canadensis | Mitella diphylla | Trientalis borealis |
| Cornus rugosa | Mitella nuda | ✓ Trillium grandiflorum |
| Corylus americana | Monotropa uniflora | Uvularia grandiflora |
| ✓ Corylus cornuta | Myrica asplenifolia | Uvularia sessilifolia |
| Cypripedium acaule | Onoclea sensibilis | Vaccinium angustifolium |
| Diervilla lonicera | Oryzopsis asperifolia | Vaccinium pennsylvanicum |
| Dirca palustris | Osmorhiza claytoni | Viburnum acerifolium |
| Dryopteris linnaeana | Oxalis montana | Viola canadensis |
| Dryopteris phegopteris | Phryma leptostachya | Viola cucullata |
| Dryopteris spinulosa | Polygala pauciflora | Viola pallens |
| Epifagus virginiana | Polygonatum commutatum | ✓ Viola pubescens |
| Epigaea repens | Polygonatum pubescens | Waldsteinia fragarioides |

✓ *Luzula campestris*
✓ *Amphicarpa bracteata*

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 3097
Quadrat No. 20

Actaea pachypoda	Fragaria virginiana	Potentilla simplex
Actaea rubra	Galium lanceolatum	Prenanthes alba
Adiantum pedatum	Galium triflorum	Pteridium aquilinum
Allium tricoccum	Gaultheria procumbens	Pyrola elliptica
Anemone quinquefolia	Gaylussacia baccata	Pyrola rotundifolia
Aquilegia canadensis	✓ Geranium maculatum	Pyrola secunda
Aralia nudicaulis	Geum canadense	Ranunculus recurvatus
Aralia racemosa	Gnaphalium obtusifolium	Rhus radicans
Arisaema atrorubens	Helianthemum sp.	Ribes americanum
✓ Aster macrophyllus	Helianthus strumosus	Rosa sp.
Aster sagittifolius	Hepatica acutiloba	Rubus parviflorus
Athyrium angustum	✓ Hepatica americana	Rubus (blackberry)
Botrychium virginianum	Impatiens biflora	✓ Rubus (dewberry)
Brachyelytrum erectum	Linnaea borealis	Sambucus pubens
Carex albursina	Lonicera oblongifolia	Sanguinaria canadensis
Caulophyllum thalictroides	Lupinus perennis	Sanicula gregaria
Chimaphila umbellata	Lycopodium annotinum	Smilacina racemosa
Circaea alpina	Lycopodium complanatum	Smilacina stellata
Circaea latifolia	Lycopodium lucidulum	Smilax ecirrhata
Clintonia borealis	Lycopodium obscurum	Solidago ulmifolia
Coptis trifolia	Lysimachia quadrifolia	Streptopus roseus
Corallorrhiza maculata	Maianthemum canadense	Taxus canadensis
Cornus alternifolia	Mitchella repens	Thalictrum dioicum
Cornus canadensis	Mitella diphylla	Trientalis borealis
Cornus rugosa	Mitella nuda	✓ Trillium grandiflorum
Corylus americana	Monotropa uniflora	Uvularia grandiflora
Corylus cornuta	Myrica asplenifolia	Uvularia sessilifolia
Cypripedium acaule	Onoclea sensibilis	Vaccinium angustifolium
Diervilla lonicera	Oryzopsis asperifolia	Vaccinium pennsylvanicum
Dirca palustris	Osmorhiza claytoni	Viburnum acerifolium
Dryopteris linnaeana	Oxalis montana	Viola canadensis
Dryopteris phegopteris	Phryma leptostachya	Viola cucullata
Dryopteris spinulosa	Polygala pauciflora	Viola pallens
Epifagus virginiana	Polygonatum commutatum	Viola pubescens
Epigaea repens	Polygonatum pubescens	Waldsteinia fragarioides

✓ *Amphicarpus hirsutus*
✓ *Luzula campestris*

TABULATION FORM

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total			
HERBS:																									
Actaea pachypoda	✓								✓														1	5	
Actaea rubra																									
Adenocaulon bicolor																									
Adiantum pedatum	✓			✓	✓	✓	✓						✓	✓		✓		✓	✓	✓			9	45	
Agrimonia gryposepala																									
Allium tricoccum																									
Alnus incana																									
Alnus rugosa																									
Amphicarpa bracteata	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15	75
Anemone canadensis																									
Anemone cylindrica																									
Anemone quinquefolia	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	50
Antennaria sp.																									
Apocynum androsaemifolium	✓	✓																						1	5
Apocynum cannabinum																									
Aquilegia canadensis	✓																							1	
Aralia hispida																									
Aralia nudicaulis	✓														✓		✓		✓					3	15
Aralia racemosa	✓																							1	
Arctostaphylos uva-ursi																									
Arisaema atrorubens	✓																							1	5
Asarum canadense																									
Asclepias exaltata ^{phytolaccoides}	✓																							1	
Aster cordifolius																									
Aster lateriflorus																									
Aster macrophyllus	✓	✓			✓			✓	✓	✓			✓										✓	6	30
Aster prenanthoides																									
Aster sagittifolius																									
Aster shortii																									
Aster umbellatus																									
Athyrium filix-femina ^{angustum}	✓								✓				✓											3	15
Athyrium thelypteroides ^{sp}	✓		✓																					1	5
Boehmeria cylindrica																									
Botrychium lanceolatum																									
Botrychium matricariaefolium																									
Botrychium virginianum	✓			✓																				1	5
Brachyelytrum erectum																									
Bromus purgans																									
Campanula americana																									
Campanula rotundifolia																									
Cardamine pensylvanica																									
Carex albursina sp.	✓									✓														1	5
Carex pensylvanica	✓																✓							1	5
Carex plantaginea																									
Caulophyllum thalictroid																									
Ceanothus ovatus																									
Celastrus scandens																									
Chimaphilia umbellata																									
Cicuta maculata																									
Circaea alpina	✓																							1	
Circaea quadrisulcata	✓								✓															1	5

latifolia

TABULATION FORM

NORTHERN PINE-HARDWOODS

Stand No. 3097

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	T	
Prenanthes alba																							
Prunella vulgaris																							
Pteretis pensylvanica																							
Pteridium aquilinum	✓	✓	✓											✓									3 15
Pyrola asarifolia																							
Pyrola elliptica	✓														✓								1 5
Pyrola minor																							
Pyrola rotundifolia	✓										✓					✓							2 10
Pyrola secunda	✓										✓												1 5
Pyrola virens																							
Ranunculus abortivus	✓									✓													1 5
Ranunculus recurvatus																							
Ranunculus septentrional																							
Rhus radicans	✓																						1
Rhus typhina																							
Ribes americanum																							
Ribes cynosbati	✓								✓														1 5
Ribes lacustre																							
Ribes triste																							
Rosa sp.	✓											✓											1 5
Rubus idaeus																							
Rubus parviflorus																							
Rubus hispida																							
Rubus - blackberry																							
Rubus - dewberry	✓												✓		✓	✓							✓ 4 30
Rubus - raspberry																							
Salix sp.																							
Sambucus canadensis																							
Sambucus pubens																							
Sanguinaria canadensis	✓				✓	✓																	1 5
Sanicula gregaria	✓																		✓				1 5
Sanicula marilandica																							
Schizachne purpurascens	✓			✓																			1 5
Scutellaria lateriflora																							
Senecio aureus																							
Shepherdia canadensis																							
Smilacina racemosa	✓																						1
Smilacina stellata																							
Smilax ecirrhata	✓																						1
Smilax herbacea																							
Smilax hispida	✓																						
Solidago canadensis																							1
Solidago flexicaulis	✓					✓		✓	✓			✓				✓							5 25
Solidago ulmifolia																							
Spiraea alba																							
Stellaria longifolia																							
Streptopus amplexifolius																							
Streptopus roseus	✓																						1
Symphoricarpos albus																							
Taxus canadensis																							
Thalictrum dioicum	✓						✓	✓						✓	✓				✓	✓			6 30

PRESENCE LIST

NORTHERN PINE-HARDWOODS

STAND NO. 3097

Abies balsamea
 ✓ Acer rubrum
 ✓ Acer saccharum
 Acer spicatum
 ✓ Amelanchier sp.
 ✓ Betula lutea
 Betula papyrifera
 ✓ Caprinus caroliniana
 ✓ Carya cordiformis
 Crataegus sp.
 Fagus grandiflora
 ✓ Fraxinus americana
 ✓ Fraxinus nigra

✓ Fraxinus pennsylvanica
 ✓ Juglans cinerea
 Larix laricina
 ✓ Ostrya virginiana
 Picea glauca
 Pinus banksiana
 Pinus resinosa
 Pinus strobus
 Populus balsamifera
 Populus grandidentata
 Populus tremuloides
 ✓ Prunus pennsylvanica
 ✓ Prunus serotina

✓ Prunus virginiana
 ✓ Quercus alba
 Quercus ellipsoidalis
 ✓ Quercus macrocarpa
 ✓ Quercus rubra
 Sorbus decora
 Thuja occidentalis
 ✓ Tilia americana
 Tsuga canadensis
 ✓ Ulmus americana
 ✓ Ulmus fulva

HERBS AND SHRUBS

✓ Actaea pachypoda
 Actaea rubra
 ✓ Adiantum pedatum
 Agrimonia gryposepala
 Allium tricoccum
 Alnus rugosa
 ✓ Amphicarpa bracteata
 Anemone canadensis
 ✓ Anemone quinquefolia
 Antennaria sp.
 ✓ Apocynum androsaemifolium
 Apocynum cannabinum
 ✓ Aquilegia canadensis
 ✓ Aralia nudicaulis
 ✓ Aralia racemosa
 Arctostaphylos uva-ursi
 ✓ Arisaema atrorubens
 Asarum canadense
 ✓ Asclepias phytolaccoides
 Aster cordifolius
 Aster lateriflorus
 ✓ Aster macrophyllus
 Aster prenanthoides
 Aster sagittifolius
 Aster shortii
 Aster umbellatus
 ✓ Athyrium angustum
 Aureolaria pedicularia
 Boehmeria cylindrica
 ✓ Botrychium virginianum
 Brachyelytrum erectum
 Bromus purgans
 Campanula americana
 Carex albursina
 Carex pensylvanica
 Caulophyllum thalictroides
 Celastrus scandens
 Chimaphila umbellata
 Chiogenes hispidula

✓ Circaea alpina
 ✓ Circaea latifolia
 Claytonia caroliniana
 Claytonia virginiana
 Clintonia borealis
 Convolvulus spithameus
 Coptis trifolia
 Corallorrhiza maculata
 Corallorrhiza striata
 Cornus alternifolia
 Cornus canadensis
 Cornus femina
 Cornus rugosa
 Corylus americana
 ✓ Corylus cornuta
 ✓ Cryptotaenia canadensis
 Cypripedium acaule
 Cypripedium pubescens
 Cystopteris fragilis
 Danthonia spicata
 Dentaria diphylla
 Desmodium glutinosum
 Desmodium nudiflorum
 Dicentra canadensis
 Dicentra cucullaria
 Diervilla lonicera
 ✓ Dirca palustris
 Dryopteris linneana
 Dryopteris phegopteris
 Dryopteris spinulosa
 Epifagus virginiana
 Epigaea repens
 Equisetum arvense
 Erythronium americanum
 ✓ Fragaria virginiana
 Galium aparine
 ✓ Galium boreale
 ✓ Galium circaeans
 Galium concinnum

✓ Galium lanceolatum
 ✓ Galium triflorum
 Gaultheria procumbens
 Gaylussacia baccata
 ✓ Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Goodyera pubescens
 Goodyera repens
 Habenaria bracteata
 Hamamelis virginiana
 Helianthus strumosus
 Hepatica acutiloba
 ✓ Hepatica americana
 Hieracium canadense
 Hydrophyllum virginianum
 Hystrix patula
 Impatiens biflora
 Lactuca canadensis
 ✓ Laportea canadensis
 Lappula virginica
 ✓ Lathyrus ochroleucus
 Ledum groenlandicum
 Linnaea borealis
 Lonicera canadensis
 ✓ Lonicera hirsuta
 Lonicera oblongifolia
 Lonicera prolifera
 Luzula multiflora
 Lycopodium annotinum
 Lycopodium clavatum
 Lycopodium complanatum
 Lycopodium lucidulum
 Lycopodium obscurum
 Lycopodium tristachyum
 ✓ Lycopodium americanus
 Lycopodium uniflora
 Lysimachia quadrifolia
 Maianthemum canadense

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|--------------------------|----------------------------|--------------------------|
| Melampyrum lineare | ✓ Pyrola elliptica | Smilax herbacea |
| Mitchella repens | Pyrola rotundifolia | ✓ Smilax hispida |
| ✓ Mitella diphylla | Pyrola secunda | ✓ Solidago latifolia |
| Mitella nuda | Ranunculus abortivus | Solidago ulmifolia |
| Monarda fistulosa | Ranunculus recurvatus | Streptopus amplexifolius |
| Moneses uniflora | Ranunculus septentrionalis | ✓ Streptopus roseus |
| Monotropa uniflora | ✓ Rhus radicans | Taxus canadensis |
| Myrica asplenifolia | Rhus typhina | ✓ Thalictrum dioicum |
| Onoclea sensibilis | Ribes americanum | Tiarella cordifolia |
| ✓ Oryzopsis asperifolia | ✓ Ribes cynosbati | Trientalis borealis |
| ✓ Osmorhiza claytoni | Ribes lacustre | Trillium cernuum |
| Osmunda cinnamomea | Ribes triste | ✓ Trillium grandiflorum |
| ✓ Osmunda claytoniana | Rubus idaeus | ✓ Uvularia grandiflora |
| Oxalis montana | Rubus parviflorus | ✓ Uvularia sessilifolia |
| Panax quinquefolia | Rubus hispidus | Vaccinium angustifolium |
| Parietaria pennsylvanica | Rubus - blackberry | Vaccinium pennsylvanicum |
| Parthenocissus vitacea | Rubus - dewberry | ✓ Viburnum acerifolium |
| Pedicularis lanceolata | Rubus - raspberry | Viburnum affine |
| ✓ Phyrma leptostachya | Sambucus canadensis | Viburnum lentago |
| Podophyllum peltatum | Sambucus pubens | ✓ Viola canadensis |
| Polemonium reptans | ✓ Sanguinaria canadensis | Viola cucullata |
| Polygala pauciflora | ✓ Sanicula gregaria | Viola incognita |
| Polygonatum commutatum | ✓ Schizachne purpurascens | Viola pallens |
| ✓ Polygonatum pubescens | Scutellaria lateriflora | ✓ Viola pubescens |
| Potentilla simplex | Shepherdia canadensis | Vitis aestivalis |
| Prenanthes alba | ✓ Smilacina racemosa | Vitis riparia |
| Pteretis nodulosa | Smilacina stellata | Waldsteinia fragarioides |
| ✓ Pteridium aquilinum | ✓ Smilax ecirrhata | Zanthoxylum americanum |

Additional Species:

- ✓ *Desmodium acuminatum*
 ✓ *Rosa* sp.
 ✓ *Potentilla arguta*