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STAND RECORD

FORESTS

Stand No. 2025

Name: KEOWNS
 County: WASHINGTON
 Date: 6-10-52
 Size of Stand: 40A.
 Forest Type: MAPLE-BEECH
 Topography: RAVINE

Locality:
 T: 11N R: 20E Sec: SENE 29
 Observers: WARD, WARE, DIX
 Size of Area Sampled: 10A.
 Soil Type:
 Slope: Directions

Condition of Stand: GOOD - SLIGHT CUTTING. BEECH FOUND ONLY

ON RIDGES

SPRING HERB DATA - 5/9/53
 WARD, DIX

Open Grown Trees:

% Canopy: 85

Stumps:

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

Soil Data:

	pH	N	P	K	Ca	Mg	Org. Mat.	Colloids	W.H.C.
A ₀									
A ₁									
A ₂									
B									

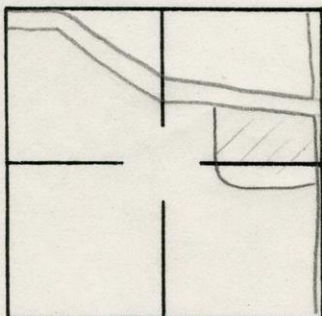
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

A ₀	1/2" - LOG - Mostly Beech
A ₁	3/4" - DK - GREY
A ₂	1 1/2" - GREY LAY INTO LIGHT BROWN
B	

Parent Material:

Map:



C.I. = 23.51

20 25 N

BASAL AREA

65
35
~~105~~
2 25 *

SING. MAPLE

65
20
24
1 50
55
3 14 *

BET. PAPER.

35
45
1 30
2 10 *

1 10

45

45

1 75

95

14

25

40

25

22

18

1 10

20

80

1 20

40

27

40

20

25

60

95

12

27

85

85

25

25

60

40

65

17

50

22

1 40

FRAGUS GRANDI

1 9 04 *

60

70

95

24

50

1 00

FRAX. AMER.

3 99 *

FRAX. VIRG.

30
30 *

15

25

17

16

21

45

30

30

35

22

15

15

25

OSTREA VIRG.

3 11 *

2 90

2 45

14

1 20

30

25

35

35

ULM. AMER.

7 94 *

25

30

1 10

65

20

1 10

60

1 10

1 20

ULM. FULLA

6 50 *

3 14 6.81

2 10 4.55

1 9 04 4.28

3 99 8.65

3 00 0.65

3 11 6.74

7 94 7.22

6 50 14.09

TOTAL BA: 46 12 *

99.99

SUGAR MAPLE

$$\# \text{ pts } \frac{4}{40} = 10.00$$

$$\# \text{ trees } \frac{5}{80} = 6.25$$

$$\% \Sigma F = 16.15$$

$$\% \Sigma D = 6.81$$

$$\text{IV } 19.21$$

BET. PAPER.

$$\# \text{ pts } \frac{3}{40} = 5.00$$

$$\# \text{ trees } \frac{3}{80} = 3.75$$

$$\% \Sigma F = 3.08$$

$$\% \Sigma D = 4.33$$

$$\text{IV } 11.38$$

FAGUS GRAND

$$\# \text{ pts } \frac{25}{40} = 62.50$$

$$\# \text{ trees } \frac{35}{80} = 43.75$$

$$\% \Sigma F = 38.46$$

$$\% \Sigma D = 41.28$$

$$\text{IV } 123.49$$

FRAX. AMER

$$\# \text{ pts } \frac{5}{40} = 12.50$$

$$\# \text{ trees } \frac{6}{80} = 7.50$$

$$\% \Sigma F = 7.69$$

$$\% \Sigma D = 8.63$$

$$\text{IV } 23.84$$

FRAX. NIGRA

$$\# \text{ pts } \frac{1}{40} = 2.50$$

$$\# \text{ trees } \frac{1}{80} = 1.25$$

$$\% \Sigma F = 1.54$$

$$\% \Sigma D = 0.63$$

$$\text{IV } 3.44$$

OSTREA VIRGE

$$\# \text{ pts } \frac{12}{40} = 30.00$$

$$\# \text{ trees } \frac{13}{80} = 16.25$$

$$\% \Sigma F = 18.46$$

$$\% \Sigma D = 6.74$$

$$\text{IV } 41.45$$

TILIA. AMER

$$\# \text{ pts } \frac{8}{40} = 20.00$$

$$\# \text{ trees } \frac{8}{80} = 10.00$$

$$\% \Sigma F = 12.31$$

$$\% \Sigma D = 17.22$$

$$\text{IV } 39.43$$

ULMUS FULVA

$$\# \text{ pts } \frac{8}{40} = 20.00$$

$$\# \text{ trees } \frac{9}{80} = 11.25$$

$$\% \Sigma F = 12.31$$

$$\% \Sigma D = 14.09$$

$$\text{IV } 37.65$$

$$\Sigma \% D = 100.00 \checkmark$$

$$\Sigma \% F = 162.50 \checkmark$$

$$\Sigma (\% \Sigma F) = 100.00 \checkmark$$

I.V. x CA

$$\text{Sug MAPLE } 19.21 \times 10 = 192$$

BET. PAPER

$$11.38 \times 5 = 57$$

BETA

$$123.49 \times 10 = 1235$$

FRAX. AMER

$$23.84 \times 8 = 191$$

FRAX. NIGRA

$$3.44 \times 6 = 21$$

OSTREA

$$41.45 \times 9 = 40$$

TILIA

$$39.43 \times 8 = 315$$

ULM. ~~FULVA~~

$$37.65 \times 8 = 301$$

$$\text{C.I.} = 2351$$

POINT RECORD TREES

Stand No. 2025

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum	165		1		3		1			2
Betula papy.										
Carpinus car										
Carya cord										
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand		110	45	3 ⁴⁵ 175	2	95			14	25
Fraxinus am							60	95	24	
F. nigra						30				
Juglans cin										
J. nigra										
Ostrya virg		25			1	15	1	25	4	17
Populus gran										
P. tremul										
Prunus serot										
Quercus alba										
Q. ellipsoid										
Q. macrocarpa										
Q. rubra										
Q. velutina										
Tilia amer	290	1								
Ulmus amer										
Ulmus fulva		25	30							
Distance	16	17	18.5	19.5	17	18.5	15.5	19	18	7.5

160.5

POINT RECORD TREES

SOUTHERN HARDWOODS ②

Stand No. 2025

STATION NO.	1	2	3	4	5	6	7	8	9	10					
Acer rubrum															
A. saccharum						20									
Betula papy.	35 45		130												
Carpinus car															
Carya cord															
C. ovata															
Celtis occ															
Crataegus sp.															
Fagus grand			40	25 22	7	18	2	110	20 80	3	120	1	40	2	27 40
Fraxinus am															
F. nigra															
Juglans cin															
J. nigra															
Ostrya virg	1	21 45	4	3	30	2	3	1	3	30	1	1			
Populus gran															
P. tremul															
Prunus serot															
Quercus alba															
Q. ellipsoid															
Q. macrocarpa															
Q. rubra															
Q. velutina															
Tilia amer								245							
Ulmus amer															
Ulmus fulva															
Distance	6	17	18	10.5	19	14.5	15.5	15	17.5	9					

POINT RECORD TREES

SOUTHERN HARDWOODS ③

Stand No. 2025

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum	1			24	2	2	2		2	
Betula papy.										
Carpinus car						1				
Carya cord				1						
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand	20 25	60	95 12	27	1			85	1	1
Fraxinus am										50
F. nigra										
Juglans cin										
J. nigra										
Ostrya virg		35	1	3		1		22	3	15
Populus gran										
P. tremul										
Prunus serot										
Quercus alba										
Q. ellipsoid										
Q. macrocarpa										
Q. rubra										
Q. velutina										
Tilia amer					14	120	30		25	
Ulmus amer										
Ulmus fulva					110	65	20			110
Distance	1	16	15	9	9	26	12	13	11	15

POINT RECORD TREES

SOUTHERN HARDWOODS

Stand No. 2025

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer rubrum										
A. saccharum	1	2		4	150 55	4	4			
Betula papy.										
Carpinus car										
Carya cord										
C. ovata										
Celtis occ										
Crataegus sp.										
Fagus grand	85	25	25	60 40				65 17	50 22	140 3
Fraxinus am							100			
F. nigra										
Juglans cin										
J. nigra		7								
Ostrya virg	15	7								25 1
Populus gran										
P. tremul										
Prunus serot										
Quercus alba										
Q. ellipsoid										
Q. macrocarpa										
Q. rubra										
Q. velutina										
Tilia amer	1				35	2	35			
Ulmus amer										
Ulmus fulva		110			120					
Distance	12.5	95	15	8	6	9	19	9	11	22

121
564.5

HERB FREQUENCY

NORTHERN PINE-HARDWOODS

Stand No. 2025
Quadrat No.

PRESENCE - STA. 4 - REDWOODS X

<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</i> (blackberry)
<i>Botrychium virginianum</i>	<i>Impatiens biflora</i>	<i>Rubus</i> (dewberry)
<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>

Xanthoxylum
Rubus sp.

WASHINGTON

SE NE 29, 11N, 20E

Data Form No. 40

Plant Ecology Research

Univ. of Wisconsin

Presence or Frequency
(Common species only)

40 acres, old cutting

Keown

SOUTHERN UPLAND HARDWOODS

= STAX

June 10

Wane
Ward
Drif

Stand No.

2025

Quadrat No.

1

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba ✓
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton.
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya ✓
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens ✓
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria ✓
S. marilandica
Smilacina racemosa ✓
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum ✓
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata ✓
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Canex - X-1 = C. Cephalophora

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 2025
Quadrat No. 2

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton.
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata ✓
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Carex X-2 = C. convoluta

psa pratensis

X 2

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 2025
Quadrat No. 3

Actaea pachypoda
Adiantum pedatum
Agrimonia grypsosepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrium filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaeazans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. ✓
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens ✓
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Carex X-2 = C. convoluta
Epifagus

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS X

Stand No. 2025
Quadrat No. 4

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. ✓
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens ✓
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Carex X-2 - C. complanata

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 2025
Quadrat No. 3

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaeans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis ✓
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton.
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya ✓
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria ✓
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata ✓
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS "X"

Stand No. 2025
Quadrat No. 6

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. ✓
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens ✓
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS X

Stand No. 2025
Quadrat No. 7

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaeans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton.
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

unknown X-7 - Celastrus scandens
climbing

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS X

Stand No. 2025
Quadrat No. 8

Actaea pachypoda
Adiantum pedatum
Agrimonia grypsosepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum ✓
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine ✓
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton.
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya ✓
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens ✓
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata ✓
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

near at Coalgate - Desmodium glutinosum

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

NE facing slope

Stand No. 2025
Quadrat No. 9

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba ✓
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa ✓
Osmorhiza clayton. ✓
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria ✓
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata ✓
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS X

Stand No. 2025
Quadrat No. 10

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens ✓
Asarum canadensis
Aster macrophyllus
A. sagittifolius ✓
A. shortii
Athyrium filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine ✓
G. circaeazans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis ✓
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. ✓
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta ✓
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria
S. marilandica
Smilacina racemosa ✓
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum ✓
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata ✓
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Carex x-10 = C. amphibola var. turgida

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS X

Stand No. 2025
Quadrat No. 11

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum ✓
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba ✓
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis ✓
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton.
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria ✓
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata ✓
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

HERB FREQUENCY

NORTHERN PINE-HARDWOODS X

Stand No. 2025
Quadrat No. 12

Actaea pachypoda
 Actaea rubra
 Adiantum pedatum
 Allium tricoccum
 Anemone quinquefolia
 Aquilegia canadensis
 Aralia nudicaulis
 Aralia racemosa
 Arisaema atrorubens
 Aster macrophyllus
 Aster sagittifolius
 Athyrium ~~angustum~~ *filix-femina* ✓
 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

fern X-12 = *Athyrium filix-femina*

HERB FREQUENCY

NORTHERN PINE-HARDWOODS X

Stand No. 2025
Quadrat No. 13

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~~ ^{argenteum} ✓
 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 X

Stand No. 2025
Quadrat No. 14

<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 X

Stand No. 2025
Quadrat No. 15

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~~ ^{aphanone} ✓
 Galium triflorum
 Gaultheria procumbens
 Gaylussacia baccata
 Geranium maculatum
 Geum canadense
 Gnaphalium obtusifolium
 Helianthemum sp.
 Helianthus strumosus
 Hepatica acutiloba ✓
 Hepatica americana ~~sp.~~
 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

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

Stand No. 2025
Quadrat No. 16

Actaea pachypoda
Adiantum pedatum
Agrimonia grypsossepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pensylvanica
Caulophyllum thalictroides
Celastrus scandens ✓
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine ✓
G. circaeazans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba ✓
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa ✓
Osmorhiza clayton. ✓
O. longistylis
Osmunda claytoni ✓
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria ✓
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Canex X-10 = C. amphibola var. turgida
unknown X 7 = Celastr. scandens

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS X

Stand No. 2025
Quadrat No. 17

Actaea pachypoda
Adiantum pedatum
Agrimonia grypsosepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrium filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaeazans
G. concinnum ✓
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton. ✓
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens ✓
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis ✓
Sanicula gregaria
S. marilandica
Smilacina racemosa
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Juncus x-3 - Sphenopholis intermedia

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS X

Stand No. 2025
Quadrat No. 18

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Allium tricoccum
Amphicarpa braceata
Anemone quinquefolia
A. virginiana
Anemonella thalictroides
Antennaria sp.
Aplectrum hiemale
Apocynum androsaemifolium
Aquilegia canadensis
Aralia nudicaulis
A. racemosa
Arenaria lateriflora
Arisaema atrorubens
Asarum canadensis
Aster macrophyllus
A. sagittifolius ✓
A. shortii
Athyrium filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
C. pennsylvanica
Caulophyllum thalictroides
Celastrus scandens ✓
Circaea quadrisulcata
Claytonia virginiana
Cornus alternifolia
C. femina
C. rugosa
Corylus americana
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Dentaria laciniata
Desmodium glutinosum
D. nudiflorum
Dicentra cucullaria
Dodecatheon meadia
Dryopteris spinulosa
Erigeron pulchellus
Erythronium albidum
Eupatorium purpureum

Eupatorium rugosum
Festuca obtusa
Fragaria virginiana
Galium aparine
G. circaezans
G. concinnum
G. lanceolatum
G. triflorum
Geranium maculatum
Gerardia grandiflora
Geum canadense
Goodyera pubescens
Habenaria bracteata
Hackelia virginica
Hamamelis virginiana
Helianthus strumosus
Hepatica acutiloba
Heuchera richardsonii
Hydrastis canadensis
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
I. pallida
Isopyrum biternatum
Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
Lysimachia quadrifolia
Maianthemum canadensis
Menispermum canadensis
Mitella diphylla
Monarda fistulosa
Orchis spectabilis
Oryzopsis racemosa
Osmorhiza clayton.
O. longistylis
Osmunda claytoni
Panax quinquefolia
Panicum latifolium
Parietaria pennsylvanica
Parthenocissus inserta
Phlox divaricata
Phryma leptostachya
Podophyllum peltatum
Polemonium reptans

Polygonatum canaliculatum
Polygonatum pubescens
Potentilla simplex
Prenanthes alba
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
Ribes americanum
R. cynosbati
R. missouriense
Rosa sp.
Rubus allegheniensis
R. occidentalis
R. strigosus
Sambucus canadensis
Sanguinaria canadensis
Sanicula gregaria
S. marilandica
Smilacina racemosa ✓
S. stellata
Smilax ecirrhata
S. herbacea
S. tamnoides
Solidago altissima
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
Tovara virginiana
Trillium cernuum
T. flexipes
T. grandiflorum ✓
T. recurvatum
Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. rafinesquianum
Viola cucullata
V. pubescens
Vitis aestivalis
V. riparia
Xanthoxylum americ.
Zizia aurea

Additional species:

Chimber X - 107 - Celast. scan.
Carex - X 18 - C. pedunculata

HERB FREQUENCY

NORTHERN PINE-HARDWOODS X

Stand No. 2025
Quadrat No. 19

Actaea pachypoda

Actaea rubra

Adiantum pedatum

Allium tricoccum

Anemone quinquefolia

Aquilegia canadensis

Aralia nudicaulis

Aralia racemosa

Arisaema atrorubens

Aster macrophyllus

Aster sagittifolius ✓

Athyrum 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

Coryx x 19 a = C. convoluta

HERB FREQUENCY

NORTHERN PINE-HARDWOODS X

Stand No. 2025
Quadrat No. 20

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 ^{aphan} 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

Elymus Ving

Celastrus scandens

Carex X 20 = *C. amphibola* var. *turgida*

[illegible]

TABULATION FORM

BEECHWOODS

Stand No. 2025

[illegible]

TABULATION FORM

BEECHWOOD'S

Stand No. 2025

[illegible]

Data Form No. 60
TABULATION FORM

Plant Ecology Research
BEECHWOODS

Univ. of Wisconsin
Stand No. 2025

[illegible]

Data Form No. 60
TABULATION FORM

Plant Ecology Research
BEECHWOODS

Univ. of Wisconsin
Stand No. 2025

STATION NO.	P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
HERBS:																							
<i>Shepherdia canadensis</i>																							
<i>Smilacina racemosa</i>	✓										✓								✓	✓	✓	4	20
<i>S. stellata</i>																							
<i>Smilax ecirrhata</i>	✓								✓													1	5
<i>S. herbacea</i>																							
<i>S. tamnoides</i>																							
<i>Solanum nigrum</i>																							
<i>Solidago altissima</i>																							
<i>S. flexicaulis</i>																							
<i>S. ulmifolia</i>																							
<i>Staphylea trifolia</i>																							
<i>Streptopus amplexifol.</i>																							
<i>S. roseus</i>																							
<i>Symphoricarpos albus</i>																							
<i>Symplocarpus foetidus</i>																							
<i>Taenidia integerrima</i>																							
<i>Taxus canadensis</i>																							
<i>Thalictrum dasycarpum</i>																							
<i>T. dioicum</i>																							
<i>Trientalis borealis</i>																							
<i>Trifolium repens</i>																							
<i>Trillium cernuum</i>																							
<i>T. flexipes</i>																							
<i>T. grandiflorum</i>	✓	✓									✓								✓			3	15
<i>T. nivale</i>																							
<i>Triosteum perfoliatum</i>																							
<i>Urtica gracilis</i>																							
<i>Uvularia grandiflora</i>																							
<i>U. sessilifolia</i>																							
<i>Viburnum acerifolium</i>																							
<i>V. cassinoides</i>																							
<i>V. lentago</i>																							
<i>V. rafinesquianum</i>																							
<i>V. trilobum</i>																							
<i>Vicia americana</i>																							
<i>Viola canadensis</i>																							
<i>V. conspersa</i>																							
<i>V. cucullata</i>	✓	✓	✓		✓					✓	✓	✓			✓	✓				✓		9	45
<i>V. pallens</i>																							
<i>V. pensylvanica</i>	✓							✓															
<i>V. pubescens</i>																				✓		2	10
<i>V. renifolia</i>																							
<i>V. rostrata</i>																							
<i>Vitis aestivalis</i>																							
<i>V. riparia</i>																							
<i>Xanthoxylum americanum</i>																							
<i>Zigadenus elegans</i>																							
<i>Z. glaucus</i>																							
<i>Sphenopholis intermed.</i>	✓			✓															✓			1	5

PROP. 69

BEECH

Keown

Tree	No.	No.	Size Class sq. in.				No.	F. %	F. %	D. %	Dom. %	D F D	Station No.
	Pts.	Tr.	12-80	81-320	321+	Dom	Sap.	Seed	Seed	Tr.	Tr.	Trees	Index
Acerrubrum													Total Length of Transect
A. saccharum	4	5	4	1		314	32	25.8	6.15	6.25	6.81	19.21	192
Carya cord.													Total Length of Transect
C. ovata													Ave. Dist. Btw'n Trees
Fagus grand.	25	35	26	9		1904	34	21.4	18.46	13.73	14.28	123.49	1235
Fraxirus amer.	5	6	4	2		399	1	0.8	7.69	7.50	8.65	23.84	19
F. pennsylvani	1	1	1			30	1	0.8	1.54	1.25	0.65	3.44	121
Juglans cinere													Ave. PA (Total BA:80)
J. nigra													No. Trees/acre
Ostrya virgin.	12	13	13			311	51	41.1	18.46	16.25	6.74	44.45	46
Populus grand.													Dom./acre
P. tremuloides													
Prunus serotin													
Quercus alba													
Q. macrocarpa													
Q. rubra													
Q. velutina													
Tilia american.	8	8	5	3		794	5	4.0	12.31	10.00	17.22	39.43	315
Ulmus american:													
U. fulva	8	9	5	4		650			12.31	11.25	14.09	37.65	301
BETULA PAPIR.	2	3	2	1		210			3.08	3.75	4.55	11.38	57
BETULA LUTEA													
CRATAEGUS													
Totals			80	60	20	124	999		999	1000	1000	29999	

2351

14,572.8

57.6

253.0

Dom./acre

Ave. PA (Total BA:80)

Trees

Ave. Dist. Btw'n

Total Length of
TransectTotal Length of
Transect

Station No.

2025

NO DATA

Temo

Presence or Frequency
(Common species only)

BEECH WOODS

Stand No. 2025
Quadrat No. 1-5

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Allium triococcum 3
Amelanchier sp.
Anemone quinquefolia
Aquillegia canadensis
Arabis canadensis
Aralia nudicaulis
Aralia racemosa
Arisaema atrorubens
Aster macrophyllus
Aster sagittifolius
Aster shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
Carex pensylvanica 1,3
Carpinus caroliniana
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana 12345
Clintonia borealis
Conopholis americ.
Corallorhiza maculata
Cornus alternifolia
Cornus femina
Cornus rugosa
Corylus cornuta
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Diervilla lonicera
Dioscorea villosa
Dirca palustris
Dryopteris disjuncta
Dryopteris spinulosa

Epifagus virginiana
Fragaria virginiana
Galium aparine
Galium circaezans
Galium concinnum /
Galium lanceolatum
Galium triflorum
Geranium maculatum
Geum canadense
Hamamelis virginiana
Hepatica acutiloba 5
Hepatica americana
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
Laportea canadensis
Lonicera dioica
Lonicera oblongifolia
Lonicera prolifera
Lycopodium lucidulum
Lycopodium obscurum
Maianthemum canadense
Menispermum canadensis
Mitchella repens
Mitella diphylla
Monotropa uniflora
Onoclea sensibilis
Oryzopsis aspesifolia
Osmorhiza claytoni 3
Osmunda claytoniana
Ostrya virginiana
Parietaria pensylvanica
Parthenocissus inserta
Phryma leptostachya
Pilea pumila
Podophyllum peltatum /
Polygonatum caniculatum
Polygonatum pubescens 1,5
Potentilla simplex
Prenanthes alba

Prunus virginiana
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
Ranunculus recurvatus
Rhus radicans
Ribes americanum
Rosa sp.
Rubus-raspberry
Sambucus canadensis
Sambucus pubens
Sanguinaria canadensis 4
Sanicula gregaria 4
Sanicula marilandica
Smilacina racemosa
Smilax ecirrhata
Smilax herbacea
Solidago altissima
Solidago flexicaulis
Solidago ulmifolia
Streptopus roseus
Symplocarpus foet.
Taxus canadensis
Thalictrum dioicum 4
Trientalis borealis
Trillium flexipes
Trillium grandiflorum /
Triosteum perfoliatum
Uvularia grandiflora
Viburnum acerifolium
Viburnum rafinesquianum
Vicia americana
Viola canadensis
Viola cucullata 2345
Viola pallens
Viola pensylvanica
Viola pubescens
Vitis aestivalis
Zanthoxylum americanum

Additional Species:

12 grasses collected

(NOTE: Claytonia much in bloom
Sanguinaria just past
Most others apparently
have not bloomed yet

all Allium = A. triococcum

Presence or Frequency
(Common species only)

BEECH WOODS

Stand No. 6-10
Quadrat No. 2025

Actaea pachypoda
Actaea rubra
Adiantum pedatum
Allium triococcum
Amelanchier sp.
Anemone quinquefolia
Aquilegia canadensis
Arabis canadensis
Aralia nudicaulis
Aralia racemosa
Arisaema atrorubens
Aster macrophyllus
Aster sagittifolius
Aster shortii
Athyrium filix-femina
Botrychium virginianum
Brachyelytrum erectum
Campanula americana
Carex albursina
Carex pensylvanica 8,10
Carpinus caroliniana
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana 6,7,8,9,10
Clintonia borealis
Conopholis americ.
Corallorhiza maculata
Cornus alternifolia
Cornus femina
Cornus rugosa
Corylus cornuta
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis
Diervilla lonicera
Dioscorea villosa
Dirca palustris
Dryopteris disjuncta
Dryopteris spinulosa

Epifagus virginiana
Fragaria virginiana
Galium aparine
Galium circaezans
Galium concinnum 7,9
Galium lanceolatum
Galium triflorum
Geranium maculatum 9
Geum canadense
Hamamelis virginiana
Hepatica acutiloba
Hepatica americana
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
Laportea canadensis
Lonicera dioica
Lonicera oblongifolia
Lonicera prolifera
Lycopodium lucidulum
Lycopodium obscurum
Maianthemum canadense
Menispermum canadensis
Mitchella repens
Mitella diphylla
Monotropa uniflora
Onoclea sensibilis
Oryzopsis aspesifolia
Osmorhiza claytoni 6,
Osmunda claytoniana
Ostrya virginiana
Parietaria pensylvanica
Parthenocissus inserta
Phryma leptostachya
Pilea pumila
Podophyllum peltatum
Polygonatum caniculatum
Polygonatum pubescens 7,8
Potentilla simplex
Prenanthes alba

Prunus virginiana
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
Ranunculus recurvatus
Rhus radicans
Ribes americanum
Rosa sp.
Rubus-raspberry
Sambucus canadensis
Sambucus pubens
Sanguinaria canadensis 6,9
Sanicula gregaria
Sanicula marilandica
Smilacina racemosa
Smilax ecirrhata
Smilax herbacea
Solidago altissima
Solidago flexicaulis
Solidago ulmifolia
Streptopus roseus
Symplocarpus foet.
Taxus canadensis
Thalictrum dioicum
Trientalis borealis
Trillium flexipes
Trillium grandiflorum
Triosteum perfoliatum
Uvularia grandiflora
Viburnum acerifolium
Viburnum rafinesquianum
Vicia americana
Viola canadensis
Viola cucullata
Viola pallens
Viola pensylvanica
Viola pubescens
Vitis aestivalis
Zanthoxylum americanum

Additional Species:

6 *Carex* #2 (collected) = *C. pedunculata*
 10 *Junco* #1

Presence or Frequency
(Common species only)

BEECH WOODS

11-15

Actaea pachypoda
 Actaea rubra
 Adiantum pedatum
 Allium triococcum
 Amelanchier sp.
 Anemone quinquefolia
 Aquilegia canadensis
 Arabis canadensis
 Aralia nudicaulis
 Aralia racemosa
 Arisaema atrorubens
 Aster macrophyllus
 Aster sagittifolius
 Aster shortii
 Athyrium filix-femina
 Botrychium virginianum
 Brachyelytrum erectum
 Campanula americana
 Carex albursina
 Carex pensylvanica 13, 14
 Carpinus caroliniana
 Caulophyllum thalictroides
 Celastrus scandens
 Circaea quadrisulcata
 Claytonia virginiana 11, 12, 13, 14, 15
 Clintonia borealis
 Conopholis americ.
 Corallorhiza maculata
 Cornus alternifolia
 Cornus femina
 Cornus rugosa
 Corylus cornuta
 Cryptotaenia canadensis
 Cypripedium pubescens
 Cystopteris fragilis
 Diervilla lonicera
 Dioscorea villosa
 Dirca palustris
 Dryopteris disjuncta
 Dryopteris spinulosa

Epifagus virginiana
 Fragaria virginiana
 Galium aparine
 Galium circaeazans
 Galium concinnum 13,
 Galium lanceolatum
 Galium triflorum
 Geranium maculatum
 Geum canadense
 Hamamelis virginiana
 Hepatica acutiloba 11,
 Hepatica americana
 Hydrophyllum virginianum
 Hystrix patula
 Impatiens capensis
 Laportea canadensis
 Lonicera dioica
 Lonicera oblongifolia
 Lonicera prolifera
 Lycopodium lucidulum
 Lycopodium obscurum
 Maianthemum canadense
 Menispermum canadensis
 Mitchella repens
 Mitella diphylla
 Monotropa uniflora
 Onoclea sensibilis
 Oryzopsis aspesifolia
 Osmorhiza claytoni 11, 14,
 Osmunda claytoniana
 Ostrya virginiana
 Parietaria pensylvanica
 Parthenocissus inserta
 Phryma leptostachya
 Pilea pumila
 Podophyllum peltatum 15
 Polygonatum caniculatum
 Polygonatum pubescens 11, 13, 15
 Potentilla simplex
 Prenanthes alba 14,

Prunus virginiana
 Pteridium aquilinum
 Pyrola elliptica
 Ranunculus abortivus
 Ranunculus recurvatus
 Rhus radicans
 Ribes americanum 15,
 Rosa sp.
 Rubus-raspberry
 Sambucus canadensis
 Sambucus pubens
 Sanguinaria canadensis 11, 13, 14, 15
 Sanicula gregaria 11,
 Sanicula marilandica
 Smilacina racemosa 12,
 Smilax ecirrhata
 Smilax herbacea
 Solidago altissima
 Solidago flexicaulis
 Solidago ulmifolia
 Streptopus roseus
 Symplocarpus foet.
 Taxus canadensis
 Thalictrum dioicum 12,
 Trientalis borealis
 Trillium flexipes
 Trillium grandiflorum 15
 Triosteum perfoliatum
 Uvularia grandiflora
 Viburnum acerifolium
 Viburnum rafinesquianum
 Vicia americana
 Viola canadensis
 Viola cucullata
 Viola pallens
 Viola pensylvanica
 Viola pubescens
 Vitis aestivalis
 Zanthoxylum americanum

Additional Species:

13, 12, 11 Carex #3 = Carex pedunculata
 10

Presence or Frequency
(Common species only)

BEECH WOODS

Stand No. 2025
Quadrat No. 16-20

Actaea pachypoda
Actaea rubra
Adiantum pedatum 16
Allium triococcum 16
Amelanchier sp.
Anemone quinquefolia
Aquilegia canadensis
Arabis canadensis
Aralia nudicaulis
Aralia racemosa
Arisaema atrorubens
Aster macrophyllus
Aster sagittifolius
Aster shortii
Athyrium filix-femina
Botrychium virginianum 17
Brachyelytrum erectum
Campanula americana
Carex albursina
Carex pensylvanica
Carpinus caroliniana
Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Claytonia virginiana 16, 17, 18, 19, 20
Clintonia borealis
Conopholis americana
Corallorhiza maculata
Cornus alternifolia
Cornus femina
Cornus rugosa
Corylus cornuta
Cryptotaenia canadensis
Cypripedium pubescens
Cystopteris fragilis 18
Diervilla lonicera
Dioscorea villosa
Dirca palustris
Dryopteris disjuncta
Dryopteris spinulosa

Epifagus virginiana
Fragaria virginiana
Galium aparine
Galium circaeazans
Galium concinnum
Galium lanceolatum
Galium triflorum
Geranium maculatum 16, 17, 18, 19, 20
Geum canadense
Hamamelis virginiana
Hepatica acutiloba 16, 17, 18, 19, 20
Hepatica americana
Hydrophyllum virginianum
Hystrix patula
Impatiens capensis
Laportea canadensis 19
Lonicera dioica
Lonicera oblongifolia
Lonicera prolifera
Lycopodium lucidulum
Lycopodium obscurum
Maianthemum canadense
Menispermum canadensis
Mitchella repens
Mitella diphylla
Monotropa uniflora
Onoclea sensibilis
Oryzopsis aspesifolia
Osmorhiza claytoni
Osmunda claytoniana
Ostrya virginiana
Parietaria pensylvanica
Parthenocissus inserta
Phryma leptostachya
Pilea pumila
Podophyllum peltatum
Polygonatum caniculatum
Polygonatum pubescens 20
Potentilla simplex
Prenanthes alba

Prunus virginiana
Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
Ranunculus recurvatus
Rhus radicans
Ribes americanum
Rosa sp.
Rubus-raspberry
Sambucus canadensis
Sambucus pubens
Sanguinaria canadensis 17, 19, 20
Sanicula gregaria
Sanicula marilandica
Smilacina racemosa 17
Smilax ecirrhata
Smilax herbacea
Solidago altissima
Solidago flexicaulis
Solidago ulmifolia
Streptopus roseus
Symplocarpus foet.
Taxus canadensis
Thalictrum dioicum
Trientalis borealis
Trillium flexipes
Trillium grandiflorum
Triosteum perfoliatum
Uvularia grandiflora
Viburnum acerifolium
Viburnum rafinesquianum
Vicia americana
Viola canadensis
Viola cucullata 16, 17, 19, 20
Viola pallens
Viola pensylvanica
Viola pubescens
Vitis aestivalis
Zanthoxylum americanum

Additional Species:

18 fern #1 = Cystopteris fragilis (?)
19 unknown

5/9/53

Univ. of Wisconsin

Stand No. 2025

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]