



# LIBRARIES

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## **Site 3529: Ashland County, Township 42N, Range 3W, Section 27. 1952-08-14**

[s.l.]: [s.n.], 1952-08-14

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## STAND RECORD

## FORESTS

Stand No.

3529

Name:

County: Ashland

Date: 8-14-52

Size of Stand:

Forest Type: Maple

Topography: Flat, upland

Locality:

T: 42 N R: 3W

Sec: 27

Observers:

Size of Area Sampled:

Soil Type:

Slope:

Directions

Condition of Stand:

Mostly second growth. Gradles into a white cedar-black ash lowland. Maples heavily used. Coryluses moderately used.

Open Grown Trees:

% Canopy:

Stumps:

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

Soil Data:

|                | pH    | N     | P     | K     | Ca    | Mg    | Org. Mat. | Colloids | W.H.C. |
|----------------|-------|-------|-------|-------|-------|-------|-----------|----------|--------|
| A <sub>0</sub> | _____ | _____ | _____ | _____ | _____ | _____ | _____     | _____    | _____  |
| A <sub>1</sub> | _____ | _____ | _____ | _____ | _____ | _____ | _____     | _____    | _____  |
| A <sub>2</sub> | _____ | _____ | _____ | _____ | _____ | _____ | _____     | _____    | _____  |
| B              | _____ | _____ | _____ | _____ | _____ | _____ | _____     | _____    | _____  |

DEPTH

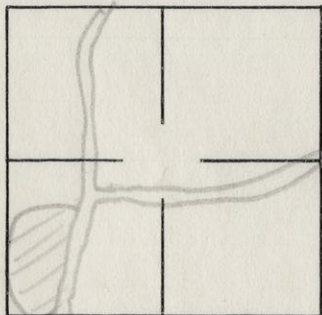
CHARACTERISTICS (Color, Texture, Structure, etc.)

|                |       |       |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A <sub>0</sub> | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| A <sub>1</sub> | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| A <sub>2</sub> | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| B              | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

Parent Material:

✓ = browse presence

Map:





Plant Ecology Research  
TREE DATA SUMMARY SHEET

University of Wisconsin

W  
Yard  
(cut)

Northern Pine-Hardwoods

Station Number: 3529

| TREE        | #<br>PTS | #<br>TRS | DOM. CLASSES |      |     | TOT.<br>DOM. | #<br>SAP | D. %<br>SAP | F. %<br>SDL. | F. %<br>TRS. | % SUM<br>F. TR. | D. %<br>TRS. | DOM%<br>TRS. | DFD<br>INDEX | Lowland<br>upland |         |
|-------------|----------|----------|--------------|------|-----|--------------|----------|-------------|--------------|--------------|-----------------|--------------|--------------|--------------|-------------------|---------|
|             |          |          | -80          | -320 | 321 |              |          |             |              |              |                 |              |              |              | C. I.             |         |
| Abies bals  | 10       | 13       | 12           | 2    | -   | 623          | 6        | 3.92        | 5            | 25.0         | 16.13           | 16.25        | 12.00        | 44.38        | 133.14            | 310.66  |
| Acer rubru  | 10       | 13       | 11           | 2    | -   | 804          | 31       | 20.26       | 50           | 25.0         | 16.13           | 16.85        | 15.47        | 47.85        | 434.95            | 287.10  |
| A. sacchar  | 15       | 22       | 21           | 1    |     | 613          | 90       | 58.82       | 35           | 37.5         | 24.19           | 27.50        | 11.80        | 63.49        | 634.90            | 634.90  |
| A. spicatu  |          |          |              |      |     |              |          |             | 40           |              |                 |              |              |              |                   |         |
| Betula lut  | 5        | 6        | 3            | 2    | 1   | 1028         | 9        | 5.88        | 5            | 12.5         | 8.06            | 7.50         | 19.78        | 35.34        | 229.71            | 282.72  |
| B. papyrif  | 2        | 2        | 1            | 1    | -   | 327          | 8        | 5.23        |              | 5.0          | 3.23            | 2.50         | 6.29         | 12.02        | 54.09             | 60.10   |
| Carpinus c  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| Fagus gran  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| Ostrya vir  |          |          |              |      |     |              | 1        | 0.65        |              |              |                 |              |              |              |                   |         |
| Picea glau  |          |          |              |      |     |              | 1        | 0.65        |              |              |                 |              |              |              |                   |         |
| Pinus Bank  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| P. resinosa |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| P. Strobus  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| Populus ba  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| P. grandid  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| P. tremulo  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| Prunus pen  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| Quercus el  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| Q. rubra    |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| Tilia amer  |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| Tsuga cana  | 8        | 10       | 8            | 2    |     | 799          | 1        | 0.65        |              | 20.0         | 12.90           | 12.50        | 15.38        | 40.78        | 305.85            | 326.24  |
| Thuja occi  | 8        | 10       | 5            | 5    |     | 915          | 1        | 0.65        |              | 20.0         | 12.90           | 12.50        | 17.61        | 43.01        | 86.02             | 301.07  |
| Ulmus amer  | 2        | 2        | 2            |      |     | 36           |          |             |              | 5.0          | 3.23            | 2.50         | 0.69         | 6.42         | 32.10             | 51.36   |
| U. fulva    |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
| Prunus vir. | 1        | 1        | 1            |      |     | 25           | 2        | 1.31        |              | 2.5          | 1.61            | 1.25         | 0.48         | 3.34         | 21.71             | 13.36   |
| Frax. nigra | 1        | 1        | 1            | -    | -   | 26           | 3        | 1.96        | 10           | 2.5          | 1.61            | 1.25         | 0.50         | 3.36         | 15.12             | 20.16   |
|             |          |          |              |      |     |              |          |             |              |              |                 |              |              |              |                   |         |
|             | 62       | 80       | 55           | 15   |     | 5196         | 153      | 99.98       |              |              | 99.99           | 100          | 100          | 299.99       | 1947.59           | 2287.67 |

AVE. DIST. BTW'N TREES:

735.5  
40  
18.39

AVE B. A.:

64.95

# TREES/ACRE:

149

DOM./ACRE:

9678



## TREE DATA SUMMARY SHEET

Northwestern Pine-Knottwoods

Station Number: 12345



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 3529 W

| STATION NO.           | 1        | 2      | 3       | 4         | 5      | 6         | 7      | 8        | 9       | 10     |
|-----------------------|----------|--------|---------|-----------|--------|-----------|--------|----------|---------|--------|
| Abies balsam          |          |        |         |           | 15     | ✓         | ✓      | ✓        | ✓       | 26     |
| Acer rubrum           | 60<br>15 | ✓<br>3 | 13<br>4 | ✓<br>4    | ✓<br>2 | ✓         | ✓<br>1 | ✓<br>1   | 25<br>5 | ✓<br>1 |
| A. sacchar.           | ✓<br>1   |        |         |           | ✓      |           |        |          |         |        |
| A. spicatum           | ✓        |        | ✓       | ✓         | ✓      |           | ✓      | ✓        |         | ✓      |
| Betula lut.           |          |        |         | 1         |        | 4         | ✓      |          | ✓       | 2      |
| B. papyrif            |          |        |         | 2         | 7      |           |        | 1        | 2       |        |
| Carpinus car          |          |        |         |           |        |           |        |          |         |        |
| Fagus gran            |          |        |         |           |        |           |        |          |         |        |
| Ostrya virg           |          |        |         |           |        |           |        |          |         |        |
| Picea glau            |          |        |         |           |        |           |        |          | 1       |        |
| Pinus Bank            |          |        |         |           |        |           |        |          |         |        |
| P. resinosa           |          |        |         |           |        |           |        |          |         |        |
| P. Strobus            |          |        |         |           |        |           |        |          |         |        |
| Populus bals          |          |        |         |           |        |           |        |          |         |        |
| P. grand              |          |        |         |           |        |           |        |          |         |        |
| P. trem               |          |        |         |           |        |           |        |          |         |        |
| Prunus pen. <i>mi</i> |          |        |         |           |        |           |        |          |         |        |
| Quercus ell           |          |        |         |           |        |           |        |          |         |        |
| Q. rubra              |          |        |         |           |        |           |        |          |         |        |
| Tilia amer            |          |        |         |           |        |           |        |          |         |        |
| Tsuga can             |          |        |         | 120<br>20 | 1      | 120<br>80 | 24     |          |         | 55     |
| Thuja occ             |          | 55     | 150     |           | 25     | 80        | 85     | 30<br>80 |         |        |
| Ulmus amer            |          |        |         |           |        |           |        |          |         |        |
| U. fulva              |          |        |         |           |        |           |        |          |         |        |
| Corylus co            | ✓        | ✓      | ✓       | ✓         | ✓      | ✓         | ✓      |          | ✓       | ✓      |
| Cornus alt            |          |        | ✓       |           |        |           |        |          |         |        |
| Fraxinea              |          |        |         |           |        |           |        | ✓        | ✓       |        |
| Distance              | 14       | 14     | 18      | 18-6      | 15     | 21        | 15     | 29-6     | 21      | 20     |

Raspberr



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No.

3529  
W

| STATION NO.    | 1   | 2    | 3    | 4    | 5     | 6   | 7    | 8        | 9   | 10   |
|----------------|-----|------|------|------|-------|-----|------|----------|-----|------|
| Abies balsam   |     |      |      | 12   | 30    | 40  |      |          |     |      |
| Acer rubrum    | ✓   | ✓ 2  | ✓ 12 | ✓ 4  | ✓ 180 | ✓ 1 |      | 80<br>55 | ✓ 1 | ✓ 1  |
| A. sacchar.    | ✓ 1 | ✓ 13 | ✓ 1  | ✓ 3  | ✓ 2   | ✓ 3 | ✓ 12 | ✓ 4      | ✓ 3 | ✓ 2  |
| A. spicatum    | ✓   | ✓    | ✓    | ✓    | ✓     | ✓   | ✓    | ✓        | ✓   | ✓    |
| Betula lut.    |     |      |      | 1    |       |     |      |          |     | 75   |
| B. papyrif     | 310 |      | 17   |      |       |     |      |          |     |      |
| Carpinus car   |     |      |      |      |       |     |      |          |     |      |
| Fagus gran     |     |      |      |      |       |     |      |          |     |      |
| Ostrya virg    |     |      |      |      |       |     |      |          |     |      |
| Picea glau     | 1   |      |      |      |       |     |      |          |     |      |
| Pinus Bank     |     |      |      |      |       |     |      |          |     |      |
| P. resinosa    |     |      |      |      |       |     |      |          |     |      |
| P. Strobus     |     |      |      |      |       |     |      |          |     |      |
| Populus bals   |     |      |      |      |       |     |      |          |     |      |
| P. grand       |     |      |      |      |       |     |      |          |     |      |
| P. trem        |     |      |      |      |       |     |      |          |     |      |
| Prunus pen.    |     |      |      |      | 1     | 25  |      |          |     |      |
| Quercus ell    |     |      |      |      |       |     |      |          |     |      |
| Q. rubra       |     |      |      |      |       |     |      |          |     |      |
| Tilia amer     |     |      |      |      |       |     |      |          |     |      |
| Tsuga can      | 50  | 55   |      |      |       |     |      |          |     |      |
| Thuja occ      |     |      |      |      | 85    |     |      |          |     |      |
| Ulmus amer     |     |      |      |      |       |     | ✓ 18 | 28       |     |      |
| U. fulva       |     |      |      |      |       |     |      |          |     |      |
| Raspberry      | ✓   |      |      |      |       |     |      |          |     |      |
| Corylus cor    | ✓   | ✓    | ✓    | ✓    | ✓     | ✓   |      |          |     |      |
| Frax americana |     |      |      |      |       |     |      |          | 26  | ✓ 2  |
| Distance       | 22  | 19-6 | 21-6 | 24-6 | 13    | 7   | 22   | 15       | 18  | 11-6 |



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No.

3529  
W

| STATION NO.        | 1         | 2   | 3   | 4         | 5  | 6         | 7        | 8   | 9        | 10  |
|--------------------|-----------|-----|-----|-----------|----|-----------|----------|-----|----------|-----|
| Abies balsam       | 160<br>50 |     |     |           | 60 | 1         | 11       | 23  |          |     |
| Acer rubrum        |           | 1   |     |           | ✓  | ✓         |          | 180 |          | 40  |
| A. sacchar.        | 4         | 20  | 4   | 4         | 14 | 3         | 60<br>13 | 4   | 40<br>19 | 4   |
| A. spicatum        | ✓         |     |     |           |    |           | ✓        | ✓   |          | ✓   |
| Betula lut.        |           | 300 | 440 |           |    | 35<br>170 |          |     |          | 1   |
| B. papyrif         |           |     |     |           |    |           |          |     |          |     |
| Carpinus car       |           |     |     |           |    |           |          |     |          |     |
| Fagus gran         |           |     |     |           |    |           |          |     |          |     |
| Ostrya virg        |           |     |     |           |    |           |          |     |          |     |
| Picea glau         |           |     |     |           |    |           |          |     |          |     |
| Pinus Bank         |           |     |     |           |    |           |          |     |          |     |
| P. resinosa        |           |     |     |           |    |           |          |     |          |     |
| P. Strobus         |           |     |     |           |    |           |          |     |          |     |
| Populus bals       |           |     |     |           |    |           |          |     |          |     |
| P. grand           |           |     |     |           |    |           |          |     |          |     |
| P. trem            |           |     |     |           |    |           |          |     |          |     |
| Prunus pen. virgin |           | ✓   |     |           |    |           |          |     |          |     |
| Quercus ell        |           |     |     |           |    |           |          |     |          |     |
| Q. rubra           |           |     |     |           |    |           |          |     |          |     |
| Tilia amer         |           |     |     |           |    |           |          |     |          |     |
| Tsuga can          |           | 190 | 45  |           |    |           |          |     |          |     |
| Thuja occ          |           |     |     | 210<br>13 |    |           |          |     |          |     |
| Ulmus amer         |           |     |     |           |    |           |          |     |          |     |
| U. fulva           |           |     |     |           |    |           |          |     |          |     |
| Conglans           | ✓         |     | ✓   | ✓         | ✓  | ✓         | ✓        |     |          | ✓   |
| Distance           | 25½       | 23½ | 21  | 18½       | 27 | 17½       | 22½      | 24  | 22½      | 17½ |



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No.

3529

W

| STATION NO.  | 1       | 2       | 3       | 4        | 5       | 6        | 7       | 8        | 9        | 10      |
|--------------|---------|---------|---------|----------|---------|----------|---------|----------|----------|---------|
| Abies balsam | 40<br>2 |         |         |          | 120     |          | 2       |          |          |         |
| Acer rubrum  |         |         |         |          |         |          |         |          |          | 351     |
| A. sacchar.  | 50<br>4 | 50<br>4 | 19<br>3 | 12<br>13 | 4<br>17 | 15<br>20 | 23<br>4 | 29<br>13 | 4<br>110 | 3<br>20 |
| A. spicatum  |         |         |         |          |         |          |         |          |          |         |
| Betula lut.  |         |         |         |          |         |          |         |          | 18       |         |
| B. papyrif   |         |         |         |          |         |          |         |          |          |         |
| Carpinus car |         |         |         |          |         |          |         |          |          |         |
| Fagus gran   |         |         |         |          |         |          |         |          |          |         |
| Ostrya virg  |         |         |         |          |         |          |         |          |          | 1       |
| Picea glau   |         |         |         |          |         |          |         |          |          |         |
| Pinus Bank   |         |         |         |          |         |          |         |          |          |         |
| P. resinosa  |         |         |         |          |         |          |         |          |          |         |
| P. Strobus   |         |         |         |          |         |          |         |          |          |         |
| Populus bals |         |         |         |          |         |          |         |          |          |         |
| P. grand     |         |         |         |          |         |          |         |          |          |         |
| P. trem      |         |         |         |          |         |          |         |          |          |         |
| Prunus pen.  |         |         |         |          |         |          |         |          |          |         |
| Quercus ell  |         |         |         |          |         |          |         |          |          |         |
| Q. rubra     |         |         |         |          |         |          |         |          |          |         |
| Tilia amer   |         |         |         |          |         |          |         |          |          |         |
| Tsuga can    |         |         |         |          |         |          |         |          |          |         |
| Thuja occ    |         |         | 120     |          |         |          |         |          |          |         |
| Ulmus amer   |         |         |         |          |         |          |         |          |          |         |
| U. fulva     |         |         |         |          |         |          |         |          |          |         |
| Corylus      |         |         |         |          |         |          |         |          |          |         |
| Virgin prume |         |         |         |          |         |          |         |          |          |         |
| Distance     | 20½     | 19½     | 22½     | 11½      | 12      | 17       | 26½     | 9        | 13       | 22½     |



yard w  
3529

[illegible]



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3529  
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 |||

Cypripedium acaule

Diervilla lonicera

Dirca palustris

Dryopteris linnaeana |

Dryopteris phegopteris

Dryopteris spinulosa |||

Epifagus virginiana

Epigaea repens

✓ Glycyrrhiza |||

✓ Acer spic. |||

Stained sedge ||

✓ Acer saccharum |||

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 |||

✓ Schizachne ||

✓ Acer rubrum ||

✓ ash seedling |

Potentilla simplex

Prenanthes alba

Pteridium aquilinum

Pyrola elliptica |

Pyrola rotundifolia

Pyrola secunda

? Ranunculus recurvatus sp |||

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 |



1947.6

40 # 82F  
.0015 Acre Quadrat Summaryyard W  
3529

| Browse<br>Shrubs | #<br>Quad. | Freq.<br>% | % Sum.<br>Freq. | Dens:<br>Calc. | Dens:<br>Calc. | % 2F<br>S-S |
|------------------|------------|------------|-----------------|----------------|----------------|-------------|
| Betula pum       |            |            |                 |                |                |             |
| Cornus alt       | 1          | 2.5        | 3.57            |                | 1.89           | 0.98        |
| Cornus rug       |            |            |                 |                |                |             |
| Cornus stol      |            |            |                 |                |                |             |
| Corylus amer     |            |            |                 |                |                |             |
| Corylus corn     | 25         | 62.5       | 89.29           |                | 47.17          | 24.51       |
| Diervilla lon    |            |            |                 |                |                |             |
| Dirca palus      |            |            |                 |                |                |             |
| Ilex vertic      |            |            |                 |                |                |             |
| Ledum groen      |            |            |                 |                |                |             |
| Lonicera can     |            |            |                 |                |                |             |
| Lonicera obl     |            |            |                 |                |                |             |
| Nemopanthus m.   |            |            |                 |                |                |             |
| Rhamnus aln      |            |            |                 |                |                |             |
| Rhus typhina     |            |            |                 |                |                |             |
| Ribes american   |            |            |                 |                |                |             |
| Ribes cyno       |            |            |                 |                |                |             |
| Ribes lacus      |            |            |                 |                |                |             |
| Ribes triste     |            |            |                 |                |                |             |
| Rosa             |            |            |                 |                |                |             |
| Rubus parvi      |            |            |                 |                |                |             |
| Rubus - black    |            |            |                 |                |                |             |
| Rubus - rasp     | 2          | 5.0        | 7.14            |                | 3.77           | 1.96        |
| Salix            |            |            |                 |                |                |             |
| Sambucus can     |            |            |                 |                |                |             |
| S. pubens        |            |            |                 |                |                |             |
| Taxus can        |            |            |                 |                |                |             |
| Vaccinium can    |            |            |                 |                |                |             |
| Viburnum acer    |            |            |                 |                |                |             |
| Viburnum af      |            |            |                 |                |                |             |

acer spri

62.5

25

47.17

24.51

28

100

53

✓

28.45 51.96

72.55 48.04

100.00 100.00

74

49

102

102



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



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|-------------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|---|--|
|                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Cirsium altissimum      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Claytonia caroliniana   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Claytonia virginica     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Clematis verticillaris  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Clintonia borealis      | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 6 |  |
| Comandra richardsiana   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Comptonia peregrina     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Convolvulus spithameus  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Coptis groenlandica     | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 2 |  |
| Corallorhiza maculata   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Corallorhiza striata    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Corallorhiza trifida    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Coreopsis palmata       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Cornus alternifolia     | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 |  |
| Cornus canadensis       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 2 |  |
| Cornus foemina          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Cornus rugosa           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Corydalis sp.           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Corylus americana       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Corylus cornuta         | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 4 |  |
| Cryptotaenia canadensis |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Cynoglossum boreale     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Cypripedium acaule      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Cypripedium parviflorum |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Cypripedium pubescens   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Cystopteris fragillis   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Danthonia spicata       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Dentaria diphylla       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Desmodium glutinosum    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Desmodium nudiflorum    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Dicentra canadensis     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Dicentra cucullaria     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Diervilla lonicera      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Dirca palustris         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Dryopteris bootii       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Dryopteris cristata     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Dryopteris goldiana     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Dryopteris disjuncta    | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 |  |
| Dryopteris phegopteris  | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 |  |
| Dryopteris spinulosa    | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 2 |  |
| Epifagus virginiana     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Epigaea repens          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Equisetum arvense       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Equisetum hyemale       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Equisetum sylvaticum    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Erigeron philadelphicus |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Erythronium albidum     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Erythronium americanum  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Eupatorium rugosum      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Festuca obtusa          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |  |
| Fragaria virginiana     | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 |  |



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|                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Fragaria vesca           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Galium aparine           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Galium boreale           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Galium circaezans        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Galium concinnum         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Galium lanceolatum       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Galium triflorum         | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 10 |  |
| Gaultheria hispidula     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Gaylussacia baccata      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Geranium maculatum       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Gerardia pedicularia     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Geum canadense           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Geum rivale              |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Gnaphalium obtusifolium  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Goodyera oblongifolia    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Goodyera pubescens       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Goodyera repens          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Habenaria bracteata      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Habenaria orbiculata     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hackelia virginiana      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Halenia deflexa          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hamamelis virginiana     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Helianthus strumosus     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hepatica acutiloba       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hepatica americana       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Heuchera richardsonii    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hieracium canadense      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hieracium scabrum        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hydrophyllum virginianum |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hystrix patula           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Ilex verticillata        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Impatiens biflora        | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 2  |  |
| Impatiens pallida        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Isopyrum bitermum        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Krigia biflora           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lactuca canadensis       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1  |  |
| Laportea canadensis      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lathyrus ochroleucus     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lathyrus venosus         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Ledum groenlandicum      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lilium michiganense      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Linnaea borealis         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lithospermum canescens   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lobelia inflata          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lonicera canadensis      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lonicera hirsuta         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lonicera oblongifolia    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lonicera prolifera       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lupinus perennis         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Luzula acuminata         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Luzula multiflora        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |



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|                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lycopodium annotinum     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lycopodium clavatum      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lycopodium complanatum   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lycopodium lucidulum     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lycopodium obscurum      | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 9  |  |
| Lycopodium tristachyum   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lycopus americanus       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lycopus uniflorus        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lysimachia ciliata       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lysimachia quadrifolia   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Maianthemum canadense    | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 13 |  |
| Malaxis unifolia         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Medeola virginiana       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Melampyrum lineare       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Menispermum canadense    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Milium effusum           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Mitchella repens         | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1  |  |
| Mitella diphylla         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Mitella nuda             | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1  |  |
| Monarda fistulosa        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Moneses uniflora         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Monotropa hypopithys     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Monotropa uniflora       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Nemopanthus mucronata    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Onoclea sensibilis       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Orchis spectabilis       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Oryzopsis asperifolia    | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 6  |  |
| Oryzopsis racemosa       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Osmorhiza claytoni       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1  |  |
| Osmunda claytoniana      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Osmunda cinnamomea       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Osmunda regalis          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Oxalis montana           | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Panax quinquefolius      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Panax trifolius          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Panicum latifolium       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Parietaria pensylvanica  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Parthenocissus inserta   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Pedicularis lanceolata   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Phlox divaricata         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Phlox pilosa             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Phyrma leptostachya      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Pilea pumila             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Podophyllum peltatum     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Polemonium reptans       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Polygala paucifolia      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Polygonatum canaliculatu |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Polygonatum pubescens    | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 5  |  |
| Polypodium virginianum   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Potentilla arguta        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Potentilla simplex       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |  |



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| Prenanthes alba          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Prunella vulgaris        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Pteretis pensylvanica    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Pteridium aquilinum      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Pyrola asarifolia        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Pyrola elliptica         | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  | 1 |
| Pyrola minor             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Pyrola rotundifolia      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Pyrola secunda           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Pyrola virens            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Ranunculus abortivus     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Ranunculus recurvatus    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Ranunculus septentrional |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Rhus radicans            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Rhus typhina             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Ribes americanum         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Ribes cynosbati          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Ribes lacustre           | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  | 1 |
| Ribes triste             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Rosa sp.                 |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Rubus idaeus             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Rubus parviflorus        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Rubus hispidus           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Rubus - blackberry       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Rubus - dewberry         | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  | 4 |
| Rubus - raspberry        | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  | 1 |
| Salix sp.                |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Sambucus canadensis      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Sambucus pubens          | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  | 1 |
| Sanguinaria canadensis   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Sanicula gregaria        | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  | 2 |
| Sanicula marilandica     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Schizachne purpurascens  | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  | 2 |
| Scutellaria lateriflora  | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  | 2 |
| Senecio aureus           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Shepherdia canadensis    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Smilacina racemosa       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Smilacina stellata       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Smilax ecirrhata         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Smilax herbacea          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Smilax hispida           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Solidago canadensis      | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Solidago flexicaulis     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Solidago ulmifolia       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Spiraea alba             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Stellaria longifolia     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Streptopus amplexifolius |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Streptopus roseus        | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  | 3 |
| Symphoricarpos albus     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Taxus canadensis         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |
| Thalictrum dioicum       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |   |



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## PRESENCE LIST

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☒ *Abies balsamea*  
☒ *Acer rubrum*  
☒ *Acer saccharum*  
☒ *Acer spicatum*  
*Amelanchier* sp.  
☒ *Betula lutea*  
*Betula papyrifera*  
*Caprinus caroliniana*  
*Carya cordiformis*  
*Crategeus* 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 circaezans*  
*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*  
☒ *Lycopus americanus*  
*Lycopus uniflora*  
*Lysimachia quadrifolia*  
☒ *Maianthemum canadense*



Melampyrum lineare  
 Mitchella repens  
 Mitella diphylla  
 Mitella nuda  
 Monarda fistulosa  
 Moneses uniflora  
 Monotropa uniflora  
 Myrica asplenifolia  
 Onoclea sensibilis  
 Oryzopsis asperifolia  
 Osmorhiza claytoni  
 Osmunda cinnamomea  
 Osmunda claytoniana  
 Oxalis montana  
 Panax quinquefolia  
 Parietaria pennsylvanica  
 Parthenocissus vitacea  
 Pedicularis lanceolata  
 Phyrma leptostachya  
 Podophyllum peltatum  
 Polemonium reptans  
 Polygala pauciflora  
 Polygonatum commutatum  
 Polygonatum pubescens  
 Potentilla simplex  
 Prenanthes alba  
 Pteretis nodulosa  
 Pteridium aquilinum

Pyrola elliptica  
 Pyrola rotundifolia  
 Pyrola secunda  
 Ranunculus abortivus  
 Ranunculus recurvatus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rhus typhina  
 Ribes americanum  
 Ribes cynosbati  
 Ribes lacustre  
 Ribes triste  
 Rubus idaeus  
 Rubus parviflorus  
 Rubus hispidus  
 Rubus - blackberry  
 Rubus - dewberry  
 Rubus - raspberry  
 Sambucus canadensis  
 Sambucus pubens  
 Sanguinaria canadensis  
 Sanicula gregaria  
 Schizachne purpurascens  
 Scutellaria lateriflora  
 Shepherdia canadensis  
 Smilacina racemosa  
 Smilacina stellata  
 Smilax ecirrhata

Smilax herbacea  
 Smilax hispida  
 Solidago latifolia  
 Solidago ulmifolia  
 Streptopus amplexifolius  
 Streptopus roseus  
 Taxus canadensis  
 Thalictrum dioicum  
 Tiarella cordifolia  
 Trientalis borealis  
 Trillium cernuum  
 Trillium grandiflorum  
 Uvularia grandiflora  
 Uvularia sessilifolia  
 Vaccinium angustifolium  
 Vaccinium pennsylvanicum  
 Viburnum acerifolium  
 Viburnum affine  
 Viburnum lentago  
 Viola canadensis  
 Viola cucullata  
 Viola incognita  
 Viola pallens  
 Viola pubescens  
 Vitis aestivalis  
 Vitis riparia  
 Waldsteinia fragarioides  
 Zanthoxylum americanum

## Additional Species:

? Carex picea  
 " stalked

✓ Cinna

✓ Epilobium glandulosum

Carex cinerea

Common sedge (Carex cinerea)

✓ Carex triperma

✓ Eriophorum

✓ Polygonum cellinoides

✓ Slyceria striata