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## **Site 4031: Peterwell Dam, Adams County, Township 18N, Range 4E, Section 10. 1951-07-04**

[s.l.]: [s.n.], 1951-07-04

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## STAND RECORD

## FORESTS

Stand No. 4031

Name:

Petunwell Dam

County:

Adams

Date:

July 7, 1957

Size of Stand:

10 acres

Forest Type:

bottomland hardwoods

Topography:

flat on terraces

Locality:

T: 18N

R: 4E

Sec: 10

NW 1/4

Observers:

Andy Bray Brown

Size of Area Sampled:

10 acres

Soil Type:

Slope:

Directions

Condition of Stand:

good

B.P. 29, 30, 30

Open Grown Trees:

% Canopy:

80

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> | 1/8   | moist | leaves | clay  | trunks | _____ | _____ | _____ | _____ |
| A <sub>1</sub> | 4 in  | _____ | _____  | _____ | _____  | _____ | _____ | _____ | _____ |
| A <sub>2</sub> | _____ | _____ | _____  | _____ | _____  | _____ | _____ | _____ | _____ |
| B              | C     | _____ | _____  | _____ | _____  | _____ | _____ | _____ | _____ |

Parent Material:

Map:



| STATION NO.               | 1    | 2    | 3   | 4  | 5                 | 6                | 7                | 8  | 9                | 10               |
|---------------------------|------|------|-----|----|-------------------|------------------|------------------|----|------------------|------------------|
| <i>Acer negundo</i>       |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>A. saccharinum</i>     |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>A. saccharum</i>       |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Betula nigra</i>       |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Carya cordiformis</i>  |      |      | 1   |    |                   |                  |                  |    |                  |                  |
| <i>Celtis occident.</i>   |      | 80 3 | 3   | 2  | 100 $\frac{1}{4}$ |                  | 40 1             | 1  | 1                | 1                |
| <i>Crataegus</i> sp.      |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Fraxinus americ.</i>   | 32 3 |      |     | 21 | 1                 | 1                | 4                | 1  | 12               | 18<br>155        |
| <i>F. nigra</i>           |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>F. pensylvanica</i>    |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Gleditsia triacan.</i> |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Gymnocladus dioica</i> |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Juglans cinerea</i>    |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Platanus occident.</i> |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Populus deltoides</i>  |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>P. tremuloides</i>     |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Prunus serotina</i>    |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Quercus bicolor</i>    |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Q. rubra</i>           | 1    |      |     | 22 |                   | 35               |                  |    |                  |                  |
| <i>Robinia pseudo.</i>    |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Salix nigra</i>        |      |      |     |    |                   |                  |                  |    |                  |                  |
| <i>Tilia americana</i>    | 1    | 40   | 22  | 1  |                   | 20 2             |                  |    | 1                |                  |
| <i>Ulmus americana</i>    | 320  |      | 100 | 2  | 70                | 1                | 130              | 70 | 250              | 1 3              |
| <i>U. rubra</i>           |      |      |     |    |                   |                  |                  |    |                  |                  |
|                           |      |      |     |    |                   |                  |                  |    |                  |                  |
|                           |      |      |     |    |                   |                  |                  |    |                  |                  |
|                           |      |      |     |    |                   |                  |                  |    |                  |                  |
| Distance                  | 12   | 21   | 19  | 30 | 19 $\frac{1}{2}$  | 13 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 15 | 17 $\frac{1}{2}$ | 20 $\frac{1}{2}$ |

| STATION NO.        | 1         | 2         | 3         | 4         | 5   | 6         | 7   | 8   | 9   | 10   |
|--------------------|-----------|-----------|-----------|-----------|-----|-----------|-----|-----|-----|------|
| Acer negundo       |           |           |           |           |     |           |     |     |     |      |
| A. saccharinum     |           |           |           |           |     |           |     |     |     |      |
| A. saccharum       |           |           |           |           |     |           |     |     |     |      |
| Betula nigra       |           |           |           |           |     |           |     |     |     |      |
| Carya cordiformis  |           |           |           |           |     |           |     |     |     |      |
| Celtis occident.   | 4         |           | 2         |           | 1   | 1         | 1   |     |     |      |
| Crataegus sp.      |           |           |           |           |     |           |     |     |     |      |
| Fraxinus americ.   | 130<br>90 | 32<br>230 | 45<br>240 | 45<br>445 | 3   |           | 130 | 350 | 18  | 1    |
| F. nigra           |           |           |           |           |     |           |     |     |     |      |
| F. pensylvanica    |           |           |           |           |     |           |     |     |     |      |
| Gleditsia triacan. |           |           |           |           |     |           |     |     |     |      |
| Gymnocladus dioica |           |           |           |           |     |           |     |     |     |      |
| Juglans cinerea    |           |           |           |           |     |           |     |     |     |      |
| Platanus occident. |           |           |           |           |     |           |     |     |     |      |
| Populus deltoides  |           |           |           |           |     |           |     |     |     |      |
| P. tremuloides     |           |           |           |           |     |           |     |     |     |      |
| Prunus serotina    |           |           |           |           |     |           |     |     |     |      |
| Quercus bicolor    |           |           |           |           |     |           |     |     |     |      |
| Q. rubra           |           |           |           |           |     |           |     |     |     |      |
| Robinia pseudo.    |           |           |           |           |     |           |     |     |     |      |
| Salix nigra        |           |           |           |           |     |           |     |     |     |      |
| Tilia americana    |           |           |           |           |     | 80<br>105 | 2   |     |     |      |
| Ulmus americana    | 120<br>45 |           | ✓         |           | 140 |           | 30  | 65  | 100 | 18 ✓ |
| U. rubra           |           |           |           |           |     |           |     |     |     |      |
|                    |           |           |           |           |     |           |     |     |     |      |
|                    |           |           |           |           |     |           |     |     |     |      |
|                    |           |           |           |           |     |           |     |     |     |      |
| Distance           | 21        | 7½        | 15        | 12        | 33  | 24        | 12  | 8½  | 8   | 18   |

| STATION NO.        | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10 |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Acer negundo       |     |     |     |     |     |     |     |     |     |    |
| A. saccharinum     |     |     |     |     |     |     |     |     |     |    |
| A. saccharum       |     |     |     |     |     |     |     |     |     |    |
| Betula nigra       |     |     |     |     |     |     |     |     | 120 |    |
| Carya cordiformis  |     |     |     |     |     |     | 7   | 7   |     |    |
| Celtis occident.   | 1   | 4   | 2   | 1   |     | 120 | 85  | 3   | 80  | 3  |
| Crataegus sp.      |     |     |     |     |     |     |     |     |     |    |
| Fraxinus americ.   | 65  | 1   | 220 | 2   | 26  | 1   | 110 | 2   | 3   | 1  |
| F. nigra           |     |     |     |     |     |     |     |     |     |    |
| F. pensylvanica    |     |     |     |     |     |     |     |     |     |    |
| Gleditsia triacan. |     |     |     |     |     |     |     |     |     |    |
| Gymnocladus dioica |     |     |     |     |     |     |     |     |     |    |
| Juglans cinerea    |     |     |     |     |     |     |     |     |     |    |
| Platanus occident. |     |     |     |     |     |     |     |     |     |    |
| Populus deltoides  |     |     |     |     |     |     |     |     |     |    |
| P. tremuloides     |     |     |     |     |     |     |     |     |     |    |
| Prunus serotina    |     |     |     |     |     |     |     |     |     |    |
| Quercus bicolor    |     |     |     |     |     |     |     |     |     |    |
| Q. rubra           |     |     |     |     |     |     |     |     |     |    |
| Robinia pseudo.    |     |     |     |     |     |     |     |     |     |    |
| Salix nigra        |     |     |     |     |     |     |     |     |     |    |
| Tilia americana    |     |     |     |     | 290 | 1   | 3   | 65  | 50  | 3  |
| Ulmus americana    | 30  | 255 | 26  | 24  |     | 150 | 160 | 145 | 65  |    |
| U. rubra           |     |     |     |     |     |     |     |     |     |    |
| Prunus virginiana  |     |     |     |     |     | 1   |     |     |     |    |
|                    |     |     |     |     |     |     |     |     |     |    |
|                    |     |     |     |     |     |     |     |     |     |    |
| Distance           | 17½ | 21  | 13½ | 11½ | 26  | 25½ | 14  | 12½ | 22½ | 36 |

Scraper Anderson

4031

Data Form No. 39  
POINT RECORD TREESPlant Ecology Research  
FLOOD-PLAIN HARDWOODSUniv. of Wisconsin  
Stand No.

403

| STATION NO.        | 1   | 2                  | 3  | 4        | 5   | 6   | 7  | 8   | 9   | 10       |
|--------------------|-----|--------------------|----|----------|-----|-----|----|-----|-----|----------|
| Acer negundo       |     |                    |    |          |     |     |    |     |     |          |
| A. saccharinum     |     |                    |    |          |     |     |    |     |     |          |
| A. saccharum       |     |                    |    |          |     |     |    |     |     |          |
| Betula nigra       |     |                    |    |          |     |     |    |     |     |          |
| Carya cordiformis  | 1   | 2                  |    | 1        |     |     |    |     |     |          |
| Celtis occident.   | ✓   | 1                  |    |          |     |     | 1  |     |     |          |
| Crataegus sp.      |     |                    |    |          |     |     |    |     |     |          |
| Fraxinus americ.   | 16  | 1 <sup>22</sup> 40 | 40 |          |     | 129 |    |     | 124 | 1        |
| F. nigra           |     |                    |    |          |     |     |    |     |     |          |
| F. pensylvanica    |     |                    |    |          |     |     |    |     |     |          |
| Gleditsia triacan. |     |                    |    |          |     |     |    |     |     |          |
| Gymnocladus dioica |     |                    |    |          |     |     |    |     |     |          |
| Juglans cinerea    |     |                    |    |          |     |     |    |     |     |          |
| Platanus occident. |     |                    |    |          |     |     |    |     |     |          |
| Populus deltoides  |     |                    |    |          |     |     |    |     |     |          |
| P. tremuloides     |     |                    |    |          |     |     |    |     |     |          |
| Prunus serotina    |     |                    |    |          |     |     |    |     |     |          |
| Quercus bicolor    |     |                    |    |          |     |     |    |     | 55  |          |
| Q. rubra           |     |                    |    |          |     |     | 50 | 85  |     |          |
| Robinia pseudo.    |     |                    |    |          |     |     |    |     |     |          |
| Salix nigra        |     |                    |    |          |     |     |    |     |     |          |
| Tilia americana    |     |                    | 24 | 4        | 45  |     | 35 | 3   | 12  | 2        |
| Ulmus americana    | 140 |                    |    | 24<br>28 | 12  | 250 |    | 135 |     | 85<br>85 |
| U. rubra           |     |                    |    |          |     |     |    |     |     |          |
|                    |     |                    |    |          |     |     |    |     |     |          |
|                    |     |                    |    |          |     |     |    |     |     |          |
|                    |     |                    |    |          |     |     |    |     |     |          |
| Distance           | 19½ | 18                 | 13 | 7        | 26½ | 19  | 29 | 17½ | 23  | 12½      |

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No.

4031

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus arbortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovara virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia *vulpina* (P)  
 Xanthoxylum americanum

Additional species:

*Eupatorium rugosum*  
*Ribes cynosbati*  
*Phlox pilosa*  
*Circea latifolia*

*Aster latus*  
*Carex laniflorum*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

4031

Quadrat No.

2

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata *aster*  
 Bidens coronata *laterifolia*  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua *pernua*

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea (p)  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovara virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

*Carex*  
*convoluta*  
*intumescens* (?)  
*Aster cordifolius*  
*Hydrophyllum*  
*Eupatorium rugosum*  
*Phlox pilosa*  
*Blackberry*  
*Viburnum sessile*  
*Oxalis europaea*  
*Acer glabrum*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

Quadrat No. 3

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Toxaria virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

Oster latiflorus

~~Toxaria~~

Dioscorea

Lactuca sp (P)

Oxalis anglica

Carex convoluta, vulpinoides

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

Quadrat No. 4

4031

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicuta maculata  
 Clematis virginiana  
 Cornus obliqua

Additional species:

*Pteris nodulosa* (P)  
*Eupatorium*

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustre  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
☒ *Geum canadense*  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
☒ *Menispermum canadense*  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
☒ *Parthenocissus inserta*  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
☒ *Ranunculus arbortivus*  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
☒ *Toxaria virginiana*  
 Viburnum lentago  
☒ *Viola cucullata*  
 Vitis riparia  
 Xanthoxylum americanum

*Polypodium*  
*biflorum* (P)

*Toxaria*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4031  
Quadrat No. 5

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii → *Convallaria*  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutu maculata  
 Clematis virginiana  
 Cornus obliqua *femina*

Additional species:

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopus americana  
 Lycopus uniflorus  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus arbortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovarua virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

*Eupatorium*  
*Aster lat.*

*Oxalis europea*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

Quadrat No. 6

4031

*Acorus calamus*  
*Alisma subcordatum*  
*Amorpha fruticosa*  
*Anemone canadensis*  
*Anemone virginiana*  
*Angelica atropurpurea*  
*Arisaema atrorubens*  
*Arisaema dracontium*  
*Asarum canadense*  
*Asclepias incarnata*  
*Bidens coronata*  
*Bidens vulgata*  
*Caltha palustris*  
*Campanula americana*  
*Carex alopecoidea*  
*Carex crinita*  
*Carex grayii*  
*Carex intumescens*  
*Carex lupulina*  
*Carex muskingumensis*  
*Carex normalis*  
*Carex tribuloides*  
*Carex typhina*  
*Carex vesicaria*  
*Carex vulpinoidea*  
*Cassia marilandica*  
*Cephalanthus occidentalis*  
*Chaeiophyllum procumbens*  
*Chelone glabra*  
*Cicuta maculata*  
*Clematis virginiana*  
*Cornus obliqua*

*Cornus stolonifera*  
*Cryptotaenia canadensis*  
*Echinocystis lobata*  
*Ellisia nyctelea*  
*Elymus virginicus*  
*Epilobium palustris*  
*Galium aparine*  
*Galium concinnum*  
*Galium obtusum*  
*Galium tinctorium*  
*Geranium maculatum*  
*Geum canadense*  
*Glyceria nervata*  
*Helenium autumnale*  
*Hypericum pyramidatum*  
*Ilex verticillata*  
*Impatiens capensis*  
*Iris virginica*  
*Juncus tenuis*  
*Laportea canadensis*  
*Leersia oryzoides*  
*Lippia lanceolata*  
*Lobelia cardinalis*  
*Lycopus americana*  
*Lycopus uniflorus*  
*Lysimachia ciliata*  
*Menispermum canadense*  
*Mertensia virginica*  
*Mimulus ringens*  
*Muhlenbergia sp.*  
*Napaea dioica*  
*Onoclea sensibilis*

*Osmorhiza longistylis*  
*Osmunda regalis*  
*Parthenocissus inserta*  
*Phlox divaricata*  
*Physostegia virginiana*  
*Poa palustris*  
*Polygonatum canaliculatum*  
*Polygonum sagittatum*  
*Ranunculus abortivus*  
*Ranunculus septentrionalis*  
*Rhus radicans*  
*Rorippa islandica*  
*Rudbeckia laciniata*  
*Rumex verticillatus*  
*Salix amygdaloides*  
*Salix longifolia*  
*Sambucus canadensis*  
*Sanicula gregaria*  
*Silphium perfoliatum*  
*Sium suave*  
*Smilax ecirrhata*  
*Smilax herbacea*  
*Smilax hispida*  
*Stachys palustris*  
*Teucrium canadense*  
*Thalictrum dasycarpum*  
*Thalictrum dioicum*  
*Tovara virginiana*  
*Viburnum lentago*  
*Viola cucullata*  
*Vitis riparia*  
*Xanthoxylum americanum*

Additional species:

*Eupatorium*  
*Carex*  
*Urtica*  
*Aster laevis*

*Oxalis sp.*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4031  
Quadrat No. 7

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 ✓ Carex crinita  
 Carex grayii  
 Carex intumescens 204  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 ✓ Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutia maculata  
 Clematis virginiana  
 Cornus obliqua

Additional species:

Eupat. mag.  
 Phlox pilosa

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 ✓ Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 ✓ Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 ✓ Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 ✓ Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 ✓ Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovara virginiana  
 Viburnum lentago  
 ✓ Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Oxalis  
 Cirsium

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No. 8

4031

*Acorus calamus*  
*Alisma subcordatum*  
*Amorpha fruticosa*  
~~*Anemone canadensis*~~ (P)  
*Anemone virginiana*  
*Angelica atropurpurea*  
*Arisaema atrorubens*  
*Arisaema dracontium*  
*Asarum canadense*  
*Asclepias incarnata*  
*Bidens coronata*  
*Bidens vulgata*  
*Caltha palustris*  
*Campanula americana*  
*Carex alopecoidea*  
*Carex crinita*  
*Carex grayii*  
*Carex intumescens*  
*Carex lupulina*  
*Carex muskingumensis*  
*Carex normalis*  
*Carex tribuloides*  
*Carex typhina*  
*Carex vesicaria*  
*Carex vulpinoidea*  
*Cassia marilandica*  
*Cephalanthus occidentalis*  
*Chaeiophyllum procumbens*  
*Chelone glabra*  
*Cicuta maculata*  
*Clematis virginiana*  
*Cornus obliqua*

*Cornus stolonifera*  
*Cryptotaenia canadensis*  
*Echinocystis lobata*  
*Ellisia nyctelea*  
*Elymus virginicus*  
*Epilobium palustris*  
*Galium aparine*  
*Galium concinnum*  
*Galium obtusum*  
*Galium tinctorium*  
*Geranium maculatum*  
*Geum canadense*  
*Glyceria nervata*  
*Helenium autumnale*  
*Hypericum pyramidatum*  
*Ilex verticillata*  
*Impatiens capensis*  
*Iris virginica*  
*Juncus tenuis*  
*Laportea canadensis*  
~~*Leersia oryzoides*~~  
*Lippia lanceolata*  
*Lobelia cardinalis*  
*Lycopus americana*  
*Lycopus uniflorus*  
*Lysimachia ciliata*  
*Menispermum canadense*  
*Mertensia virginica*  
*Mimulus ringens*  
*Muhlenbergia sp.*  
*Napaea dioica*  
*Onoclea sensibilis*

*Osmorhiza longistylis*  
*Osmunda regalis*  
*Parthenocissus inserta*  
*Phlox divaricata*  
*Physostegia virginiana*  
*Poa palustris*  
*Polygonatum canaliculatum*  
*Polygonum sagittatum*  
*Ranunculus abortivus*  
*Ranunculus septentrionalis*  
*Rhus radicans*  
*Rorippa islandica*  
*Rudbeckia laciniata*  
*Rumex verticillatus*  
*Salix amygdaloides*  
*Salix longifolia*  
*Sambucus canadensis*  
*Sanicula gregaria*  
*Silphium perfoliatum*  
*Sium suave*  
*Smilax ecirrhata*  
*Smilax herbacea*  
*Smilax hispida*  
~~*Stachys palustris*~~  
*Teucrium canadense*  
*Thalictrum dasycarpum*  
*Thalictrum dioicum*  
*Tovara virginiana*  
*Viburnum lentago*  
*Viola cucullata*  
*Vitis riparia*  
*Xanthoxylum americanum*

Additional species:

*Monarda* (P)

*Eup. rug.*  
*Oxalis*

*Aster laevis*  
*Salicodago sp.*  
*Buckwheat*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No. 9

4031

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovarva virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

aster  
 heterophyllus

Monarda fistulosa  
 Veronicastrum  
 Helianthus sp.  
 Oxalis em.

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No.

4031

10

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina *capifolia*  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicuta maculata  
 Clematis virginiana  
 Cornus obliqua

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovara virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

*Asperula angustifolia**Rumex crispus*  
*Oxalis*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

Quadrat No.

4031

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicuta maculata  
 Clematis virginiana  
 Cornus obliqua

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovar virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

Anemone (P) also in quad  
 water lily

Eupatorium

Verbena sp

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No.

4031

12

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus ~~obliqua~~ *floridana*

Additional species:

*Eup. rug.*  
*Aster linum*

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
~~Geum~~ *canadense*  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
~~Menispermum~~ *canadense*  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus arbortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
~~Thalictrum~~ *dasycarpum*  
 Thalictrum dioicum  
 Tovarva virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
~~Xanthoxylum~~ *americanum*

*Solidago canadense*

*Bidens frond (P)*  
*Oxalis*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No.

4031

13

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atropurpureum  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicuta maculata  
 Clematis virginiana  
 Cornus obliqua

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovararia virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

Aster cordifolius  
 later

Cuscuta

Cuscuta quadrifida

Tovararia  
 Polemonium reptans

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

Quadrat No.

4031

14

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

Additional species:

Phlox sp  
 Oxalis

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustre  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovarva virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Arundo donax  
 Carex sp  
 Rhus sp  
 Agave

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4031  
Quadrat No. 15

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina *car*  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicuta maculata  
 Clematis virginiana  
 Cornus obliqua *benina*

Additional species:

Cornus stolonifera  
 ✓ Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 ✓ Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 ✓ Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 ✓ Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovar virginiana  
 Viburnum lentago  
 ✓ Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

*Phlox sp**Lysimachia ciliata*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

Quadrat No. 16

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atropurpureum  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecuroides  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaetophyllum procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

Additional species:

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustre  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovarva virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

*convoluta*  
*ax*  
*date lat*

*Oxalis*  
*Rumex virgin.*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No.

4031

17

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens *convulsa*  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicuta maculata  
 Clematis virginiana  
 Cornus obliqua *femina*

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopus americana  
 Lycopus uniflorus  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus arbortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictum dasycarpum  
 Thalictum dioicum  
 Tovar virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

*Carex laxif**Raspberry**Phlox sp*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No.

4031

18

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita *convoluta*  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
*Geum* canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
*Laportea* canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
*Menispermum* canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
*Smilax* ecirrhata  
*Smilax* herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovarva virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

*Aster lat**Eup rug.*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4031  
Quadrat No. 19

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 ✓ Carex intumescens (3) 20x  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua *bermuda*

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 ✓ Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
 Lysimachia ciliata  
 ✓ Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 ✓ Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovarva virginiana  
 Viburnum lentago  
 ✓ Viola cucullata *pubescens*  
 Vitis riparia  
 ✓ Xanthoxylum americanum

Additional species:

*Hydrophyllum*  
*Alastus ascendens*

*Phlox*  
*Eup. rug.*  
*Oxalis*

40-031

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

Quadrat No.

20

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens vulgata  
 Caltha palustris  
 Campanula americana  
 Carex alopecoidea  
 Carex crinita  
 Carex grayii  
 Carex intumescens  
 Carex lupulina  
 Carex muskingumensis  
 Carex normalis  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Carex vulpinoidea  
 Cassia marilandica  
 Cephalanthus occidentalis  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutia maculata  
 Clematis virginiana  
 Cornus obliqua

Additional species:

Cornus stolonifera  
 Cryptotaenia canadensis  
 Echinocystis lobata  
 Ellisia nyctelea  
 Elymus virginicus  
 Epilobium palustris  
 Galium aparine  
 Galium concinnum  
 Galium obtusum  
 Galium tinctorium  
 Geranium maculatum  
 Geum canadense  
 Glyceria nervata  
 Helenium autumnale  
 Hypericum pyramidatum  
 Ilex verticillata  
 Impatiens capensis  
 Iris virginica  
 Juncus tenuis  
 Laportea canadensis  
 Leersia oryzoides  
 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopus americana  
 Lycopus uniflorus  
 Lysimachia ciliata  
 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
 Napaea dioica  
 Onoclea sensibilis

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus abortivus  
 Ranunculus septentrionalis  
 Rhus radicans  
 Rorippa islandica  
 Rudbeckia laciniata  
 Rumex verticillatus  
 Salix amygdaloides  
 Salix longifolia  
 Sambucus canadensis  
 Sanicula gregaria  
 Silphium perfoliatum  
 Sium suave  
 Smilax ecirrhata  
 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovar virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Viburnum lentago

Urtica

Phlox

Eup per

rug.

## PRESENCE LIST

## SOUTHERN FLOODPLAIN FOREST

Stand No. 031

Acer negundo  
Acer rubrum  
✓ Acer saccharinum  
Acer saccharum  
Betula lutea  
✓ Betula nigra  
✓ Carya cordiformis  
Carya ovata  
✓ Celtis occidentalis  
Crataegus  
✓ Fraxinus americana  
Fraxinus nigra

Fraxinus pennsylvanica  
Fraxinus lanceolata  
Fraxinus quadrangulata  
Gleditsia triacanthos  
Gymnocladus dioica  
Juglans cinerea  
Juglans nigra  
Ostrya virginiana  
Platanus occidentalis  
✓ Populus deltoides  
Populus tremuloides  
Prunus serotina

Prunus virginiana  
✓ Quercus alba  
Quercus bicolor  
Quercus ellipsoidalis  
Quercus macrocarpa  
✓ Quercus rubra  
Robinia pseudoacacia  
Salix nigra  
✓ Tilia americana  
✓ Ulmus americana  
Ulmus fulva

*Pinus*  
*Strobilus*

## HERBS &amp; SHRUBS

Acorus calamus  
Actaea pachypoda  
Adiantum pedatum  
Agrimonia gryposepala  
Alisma plantago-aquatica  
Allium canadense  
Alnus incana  
Alnus rugosa  
Ambrosia trifida *ambrosioides*  
Amorpha fruticosa  
Amphicarpa bracteata  
✓ Anemone canadensis  
Anemone quinquefolia  
Anemone virginiana  
Anemonella thalictroides  
Apios tuberosa  
Aralia nudicaulis  
Aralia racemosa  
Arenaria lateriflora  
Arisaema atrorubens  
✓ Arisaema dracontium  
Asarum canadense  
Asclepias incarnata  
✓ Aster lateriflorus *linearifolius*  
Aster paniculatus *cordifolius*  
Athyrium angustum  
Aureolaria grandiflora  
Bidens coronata  
Bidens vulgata  
Botrychium virginianum  
Brachyelytrum erectum  
Bromus purgans  
Caltha palustris  
Campanula americana  
Carex grayii *convoluta*  
Cassia marilandica *stipitata*  
Caulophyllum thalictroides  
Cephalanthus occidentalis  
Cheirophyllum procumbens  
Chelone glabra  
Cicuta maculata

✓ Circaea latifolia  
Cirsium altissimum  
✓ Clematis virginiana  
Comandra umbellata  
Convolvulus sepium  
Cornus alternifolia  
✓ Cornus femina  
Cornus obliqua  
Cornus rugosa  
Cornus stolonifera  
✓ Corylus americana  
✓ Cryptotaenia canadensis  
Cuscuta sp.  
Dentaria laciniata  
Desmodium glutinosum  
Dicentra cucullaria  
✓ Dioscorea villosa  
Dryopteris thelypteris  
Echinocystis lobata  
Ellisia nyctelea  
Elymus virginicus  
Epilobium palustre  
Erythronium albidum  
✓ Eupatorium purpureum  
✓ Eupatorium rugosum  
Fragaria virginiana  
Galium aparine  
Galium concinnum  
✓ Galium obtusum  
✓ Galium triflorum  
✓ Geranium maculatum  
✓ Geum canadense  
Geum strictum  
Glyceria nervata  
Helianthus strumosus  
Hepatica acutiloba  
Hydrophyllum appendiculatum  
✓ Hydrophyllum virginianum  
Hypericum ascyron *virginianum*  
Hystrix patula  
Ilex verticillata

Impatiens biflora  
Iris virginica  
Juncus tenuis  
Lactuca spicata  
✓ Laportea canadensis  
Leersia oryzoides  
Lilium philadelphicum  
Lippia lanceolata  
Lobelia cardinalis  
Lonicera prolifera  
Lycopus americana  
Lycopus uniflorus  
✓ Menispermum canadense  
Muhlenbergia sp.  
Napaea dioica  
Onoclea sensibilis  
Osmorhiza claytoni  
Osmorhiza longistylis  
Osmunda regalis  
Parietaria pennsylvanica  
✓ Parthenocissus vitacea  
Phlox divaricata *pelosa*  
✓ Phryma leptostachya  
Physocarpus opulifolius  
Physostegia virginiana  
Pilea pumila  
Podophyllum peltatum  
✓ Polemonum reptans  
Polygonatum commutatum  
Polygonum sagittatum  
Polygonum virginianum  
Prenanthes alba  
✓ Ranunculus abortivus  
Ranunculus recurvatus  
Ranunculus septentrionalis  
✓ Rhus radicans  
Ribes americanum  
✓ Ribes cynosbati  
Ribes missouriense  
Rorippa palustris  
Rubus allegheniensis

*Cornus vulpina* *laxiflora* *crinita*

~~Rudbeckia laciniata~~  
~~Rumex verticillatus~~  
~~Sambucus canadensis~~  
~~Sanguinaria canadensis~~  
~~Sanicula gregaria~~  
~~Sanicula marilandica~~  
~~Scutellaria lateriflora~~  
~~Senecio aureus~~  
~~Silphium perfoliatum~~  
~~Sium suave~~  
~~Smilacina racemosa~~  
~~Smilacina stellata~~

~~Smilax ecirrhata~~  
~~Smilax herbacea~~  
~~Smilax hispida~~  
~~Solidago gigantea~~  
~~Solidago ulmifolia~~  
~~Stachys palustris~~ *sp*  
~~Staphylea trifolia~~  
~~Steironema ciliata~~  
~~Stellaria longifolia~~  
~~Teucrium canadense~~  
~~Thalictrum dasycarpum~~  
~~Thalictrum dioicum~~

~~Trillium flexipes~~  
~~Trillium grandiflorum~~  
~~Trillium recurvatum~~  
~~Triosteum perfoliatum~~  
~~Uvularia grandiflora~~ *sessilifolia*  
~~Veronicastrum virginianum~~  
~~Viburnum lentago~~  
~~Viola cucullata~~  
~~Viola pubescens~~  
~~Vitis riparia~~  
~~Zanthoxylum americanum~~

## Additional species:

*Ribes unsonense*

*Tovara*

*Oxalis*

*Lysimachia ciliata*