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## **Site 4065: Cassville, Grant County, Township 3N, Range 6W, Section 3. 1952-07-31**

[s.l.]: [s.n.], 1952-07-31

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## STAND RECORD

## FORESTS

Stand No. 4065

Name: Cassville

County: Grant

Date: July 31, 1952

Size of Stand: 80 A.

Forest Type: Floodplain hardwood

Topography:

Locality:

T: 3 N R: 6 W Sec: 3

Observers: Ward, Ware, Bray

Size of Area Sampled: 20 A

Soil Type:

Slope:

Directions

Condition of Stand:

Some cutting - evidenced by very large stumps, some of which were soft maple. Parts of woods in excellent condition with some fallen timber, and quite a bit of debris deposited by over flow. Herbs in good condition and not recently inundated.

Open Grown Trees:

85 % 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              |    |   |   |   |    |    |           |          |        |

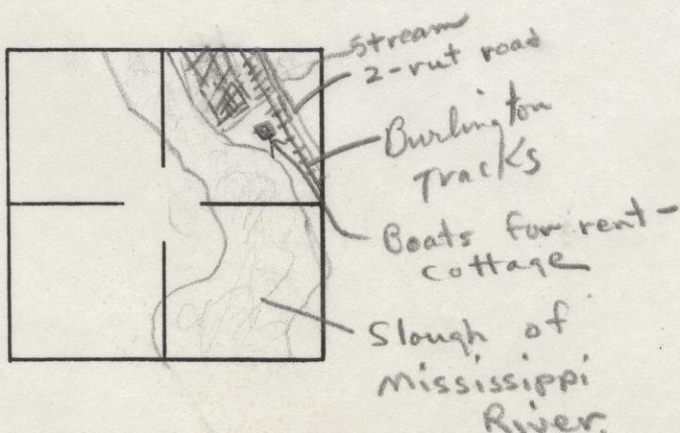
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

|                |        |                                                |
|----------------|--------|------------------------------------------------|
| A <sub>0</sub> | 1/2 in | thin layer of leaves                           |
| A <sub>1</sub> | 3 in   | profile just barely evident - dark brown silty |
| A <sub>2</sub> |        | sandy on down to water table at 12-15 in.      |
| B              |        |                                                |

Parent Material:

Map:





| STATION NO.        | 1                     | 2                     | 3         | 4                     | 5                     | 6                     | 7                     | 8          | 9        | 10                    |
|--------------------|-----------------------|-----------------------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------|----------|-----------------------|
| Acer negundo       |                       |                       | L         |                       |                       |                       |                       |            |          |                       |
| A. saccharinum     |                       |                       |           | 140                   | 130                   | 140                   | 170<br>150            | 160<br>150 | 110      | 110                   |
| A. saccharum       |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Betula nigra       |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Carya cordiformis  |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Celtis occident.   |                       |                       |           | ✓                     |                       |                       | L                     |            | L        |                       |
| Crataegus sp.      |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Fraxinus americ.   |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| F. nigra           |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| F. pensylvanica    |                       |                       | ✓         |                       | L                     |                       |                       |            |          |                       |
| Gleditsia triacan. |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Gymnocladus dioica |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Juglans cinerea    |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Platanus occident. |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Populus deltoides  |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| P. tremuloides     |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Prunus serotina    |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Quercus bicolor    |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Q. rubra           |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Robinia pseudo.    |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Salix nigra        |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Tilia americana    |                       |                       |           |                       |                       | L                     |                       |            | L        |                       |
| Ulmus americana    |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| U. rubra           | 50<br>28              | 45<br>35              | 110<br>55 | 130                   | 270<br>3              | 110<br>3              | 3                     | 4          | 100<br>2 | 100<br>4              |
|                    |                       |                       |           |                       |                       |                       |                       |            |          |                       |
|                    |                       |                       |           |                       |                       |                       |                       |            |          |                       |
|                    |                       |                       |           |                       |                       |                       |                       |            |          |                       |
| Distance           | 18 <sup>1</sup><br>28 | 25 <sup>1</sup><br>35 | 19        | 17 <sup>1</sup><br>28 | 18 <sup>1</sup><br>28 | 18 <sup>1</sup><br>28 | 21 <sup>1</sup><br>28 | 17         | 14       | 38 <sup>1</sup><br>28 |



## POINT RECORD TREES

Plant Ecology Research  
FLOOD-PLAIN HARDWOODS

| STATION NO.        | 1   | 2      | 3      | 4      | 5     | 6      | 7    | 8    | 9       | 10   |
|--------------------|-----|--------|--------|--------|-------|--------|------|------|---------|------|
| Acer negundo       |     |        |        |        |       |        |      |      |         |      |
| A. saccharinum     | 120 | 110    | 80     |        |       |        |      | 120  |         | 180  |
| A. saccharum       |     |        |        |        |       |        |      |      |         |      |
| Betula nigra       |     |        |        |        |       |        |      |      |         |      |
| Carya cordiformis  |     |        |        |        |       |        |      |      |         |      |
| Celtis occident.   |     |        |        |        |       |        | 1    |      |         |      |
| Crataegus sp.      |     |        |        |        |       |        |      |      |         |      |
| Fraxinus americ.   |     |        |        |        |       |        |      | 1    |         |      |
| F. nigra           |     |        |        |        |       |        |      |      |         |      |
| F. pensylvanica    | 2   |        |        |        |       |        |      |      |         |      |
| Gleditsia triacan. |     |        |        |        |       |        |      |      |         |      |
| Gymnocladus dioica |     |        |        |        |       |        |      |      |         |      |
| Juglans cinerea    |     |        |        |        |       |        |      |      |         |      |
| Platanus occident. |     |        |        |        |       |        |      |      |         |      |
| Populus deltoides  |     |        |        |        |       |        |      |      |         |      |
| P. tremuloides     |     |        |        |        |       |        |      |      |         |      |
| Prunus serotina    |     |        |        |        |       |        |      |      |         |      |
| Quercus bicolor    |     |        |        |        |       |        |      |      |         |      |
| Q. rubra           |     |        |        |        |       |        |      |      |         |      |
| Robinia pseudo.    |     |        |        |        |       |        |      |      |         |      |
| Salix nigra        |     |        |        |        |       |        |      |      |         |      |
| Tilia americana    |     |        | 1      |        |       |        |      |      |         |      |
| Ulmus americana    |     |        |        |        |       |        |      |      |         |      |
| U. rubra           | 120 | 95     | 180    | 30/2   | 80/35 | 210/26 | 15/3 | 95/3 | 100/260 | 45/4 |
|                    |     |        |        |        |       |        |      |      |         |      |
|                    |     |        |        |        |       |        |      |      |         |      |
|                    |     |        |        |        |       |        |      |      |         |      |
| Distance           | 10  | 12 1/2 | 18 1/2 | 17 1/2 | 19    | 17 1/2 | 23   | 37   | 20 1/2  | 15   |



| STATION NO.        | 1          | 2   | 3                 | 4   | 5   | 6         | 7         | 8  | 9   | 10        |
|--------------------|------------|-----|-------------------|-----|-----|-----------|-----------|----|-----|-----------|
| Acer negundo       |            |     |                   |     |     |           |           |    |     |           |
| A. saccharinum     | 250        | 290 | 510<br>265<br>295 |     |     |           | 55<br>110 | 90 | 130 | 200       |
| A. saccharum       |            |     |                   |     |     |           |           |    |     |           |
| Betula nigra       |            |     |                   |     |     |           |           |    |     |           |
| Carya cordiformis  |            |     |                   |     |     |           |           |    |     |           |
| Celtis occident.   |            |     |                   |     |     |           |           |    |     |           |
| Crataegus sp.      |            |     |                   |     |     |           |           |    |     |           |
| Fraxinus americ.   |            |     |                   |     |     |           |           |    |     |           |
| F. nigra           |            |     |                   |     |     |           |           |    |     |           |
| F. pensylvanica    |            |     |                   |     | 200 |           |           |    |     |           |
| Gleditsia triacan. |            |     |                   |     |     |           |           |    |     |           |
| Gymnocladus dioica |            |     |                   |     |     |           |           |    |     |           |
| Juglans cinerea    |            |     |                   |     |     |           |           |    |     |           |
| Platanus occident. |            |     |                   |     |     |           |           |    |     |           |
| Populus deltoides  |            |     |                   | 170 |     |           |           |    |     |           |
| P. tremuloides     |            |     |                   |     |     |           |           |    |     |           |
| Prunus serotina    |            |     |                   |     |     |           |           |    |     |           |
| Quercus bicolor    |            |     |                   |     |     |           |           |    |     |           |
| Q. rubra           |            |     |                   |     |     |           |           |    |     |           |
| Robinia pseudo.    |            |     |                   |     |     |           |           |    |     |           |
| Salix nigra        |            |     |                   |     |     |           |           |    |     |           |
| Tilia americana    |            |     |                   |     |     |           |           |    |     |           |
| Ulmus americana    |            |     |                   |     |     |           |           |    |     |           |
| U. rubra           | 570<br>270 | 40  | 150<br>120        | 2   | 50  | 160<br>18 | 4         | 4  | 65  | 100<br>25 |
|                    |            |     |                   |     |     |           |           |    |     |           |
|                    |            |     |                   |     |     |           |           |    |     |           |
|                    |            |     |                   |     |     |           |           |    |     |           |
| Distance           | 12         | 19  | 21                | 18  | 17  | 14        | 16        | 6  | 30  | 21        |

numerous small  
ashes



| STATION NO.        | 1        | 2         | 3         | 4        | 5        | 6   | 7   | 8   | 9          | 10  |
|--------------------|----------|-----------|-----------|----------|----------|-----|-----|-----|------------|-----|
| Acer negundo       |          |           |           |          |          |     |     |     |            |     |
| A. saccharinum     |          |           |           |          |          | 150 | 260 | 220 | 180<br>140 | 75  |
| A. saccharum       |          |           |           |          |          |     |     |     |            |     |
| Betula nigra       |          |           |           |          |          |     |     |     |            |     |
| Carya cordiformis  |          |           |           |          |          |     |     |     |            |     |
| Celtis occident.   |          |           |           |          |          |     |     |     |            |     |
| Crataegus sp.      |          |           |           |          |          |     |     |     |            |     |
| Fraxinus americ.   |          |           |           |          |          |     |     |     |            |     |
| 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    |          |           |           |          |          |     |     |     |            |     |
| Ulmus americana    |          |           |           |          |          |     |     |     |            |     |
| U. rubra           | 50<br>65 | 290<br>17 | 140<br>12 | 30<br>19 | 70<br>30 | 504 | 201 | 651 | 15         | 430 |
|                    |          |           |           |          |          |     |     |     |            |     |
|                    |          |           |           |          |          |     |     |     |            |     |
|                    |          |           |           |          |          |     |     |     |            |     |
| Distance           | 23 1/2   | 15        | 22 1/2    | 24 1/2   | 23 1/2   | 17  | 18  | 12  | 18         | 19  |



Presence or Frequency  
(Common species only)

## FLOOD-PLAIN HARDWOODS

Stand No. 4065

~~Quadrat No.~~

Presence

Adiantum pedatum  
Agrimonia gryposepala  
Allium canadense  
Allium tricoccum  
Amphicarpa bracteata  
Anemone canadensis  
Anemone virginiana  
Aralia nudicaulis  
Arenaria lateriflora  
Arisaema atrorubens  
Arisaema dracontium  
Asarum canadense  
Aster lateriflorus  
Aster simplex  
Athyrium filix-femina  
Athyrium thelypteroides  
Boehmeria cylindrica  
Brachyelytrum erectum  
Caltha palustris  
Campanula americana  
Carex crinita  
Carex grayii  
Carex intumescens  
Carex lupulina  
Carex normalis  
Carex vupinoidea  
Cephalanthus occidentalis  
Cicuta maculata  
Circaea quadrisulcata  
Cirsium altissimum  
Convolvulus sepium  
Cornus femina  
Cornus obliqua  
Cornus rugosa  
Cornus stolonifera

Corylus americana  
Cryptotaenia canadensis  
Desmodium glutinosum  
Dioscorea villosa  
Echinocystis lobata  
Fragaria virginiana  
Galium aparine  
Galium concinnum  
Galium obtusum  
Galium triflorum  
Geranium maculatum  
Geum canadense  
Glyceria striata  
Hydrophyllum virginianum  
Ilex verticillata  
Impatiens capensis  
Iris virginica  
Lactuca biennis  
Laportea canadensis  
Leersia oryzoides  
Lobelia cardinalis  
Lycopus americanus  
Lycopus uniflorus  
Lysimachia ciliata  
Lysimachia nummularia  
Menispermum canadense  
Onoclea sensibilis  
Osmorhiza claytoni  
Osmorhiza longistylis  
Parthenocissus inserta  
Phlox divaricata  
Phryma leptostachya  
Physostegia virginiana  
Podophyllum peltatum  
Polemonium reptans

Polygonatum canaliculatum  
Prenanthes alba  
Ranunculus abortivus  
Ranunculus septentrionalis  
Rhus radicans  
Ribes americanum  
Ribes cynosbati  
Ribes missouriense  
Rorippa islandica  
Rudbeckia laciniata  
Rumex verticillatus  
Sambucus canadensis  
Sanguinaria canadensis  
Sanicula gregaria  
Smilacina racemosa  
Smilacina stellata  
Smilax ecirrhata  
Smilax herbacea  
Smilax tamnoides  
Solanum dulcamara  
Stachys palustris  
Teucrium canadense  
Thalictrum dasycarpum  
Thalictrum dioicum  
Tovara virginiana  
Trillium flexipes  
Uvularia sessilifolia  
Veronicastrum virginianum  
Viburnum lentago  
Viola canadensis  
Viola conspersa  
Viola cucullata  
Viola pubescens  
Vitis riparia  
Zanthoxylum americanum

Additional species:

honey forest seedling  
Morus rubra seedling



Presence List  
(Uncommon species)

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
~~Quadrat No.~~

*Presence*

Acorus calamus  
 Actaea pachypoda  
 Actaea rubra  
 Agastache scrophulariaefolia  
 Agropyron trachycaulum  
 Alisma subcordatum  
 Alnus incana  
 Alnus rugosa  
 Ambrosia trifida  
 Amorpha fruticosa  
 Anemone quinquefolia  
 Anemonella thalictroides  
 Angelica atropurpurea  
 Apios americana  
 Aralia hispida  
 Aralia racemosa  
 Asclepias incarnata  
 Aster cordifolius  
 Aster sagittifolius  
 Aster shortii  
 Bidens connata  
 Bidens coronata  
 Bidens frondosa  
 Bidens vulgata  
 Botrychium virginianum  
 Bromus purgans  
 Calamagrostis canadensis  
 Carex albusina  
 Carex alopecoidea  
 Carex convoluta  
 Carex cristata  
 Carex grisea  
 Carex laxiflora  
 Carex molesta  
 Carex muskingumensis  
 Carex pensylvanica  
 Carex projecta  
 Carex stipata  
 Carex tribuloides  
 Carex typhina  
 Carex vesicaria  
 Cassia marilandica  
 Caulophyllum thalictroides  
 Celastrus scandens  
 Chaerophyllum procumbens  
 Chelone glabra  
 Cicuta bulbifera  
 Circaea alpina  
 Clematis virginiana  
 Clintonia borealis

Comandra umbellata  
 Cornus alternifolia  
 Cuscuta sp.  
 Dentaria laciniata  
 Desmodium nudiflorum  
 Dicentra cucullaria  
 Diervilla lonicera  
 Dryopteris cristata  
 Dryopteris spinulosa  
 Dryopteris thelypteris  
 Ellisia hystelea  
 Elymus virginicus  
 Epilobium palustre  
 Equisetum arvense  
 Equisetum hyemale  
 Erigeron philadelphicus  
 Erigeron pulchellus  
 Erythronium albidum  
 Eupatorium perfoliatum  
 Eupatorium purpureum  
 Eupatorium rugosum  
 Euonymus atropurpureus  
 Festuca obtusa  
 Fragaria vesca  
 Galium tinctorium  
 Gerardia gradiflora  
 Geum strictum  
 Hackelia virginica  
 Helenium autumnale  
 Helianthus strumosus  
 Hepatica acutiloba  
 Heracleum maximum  
 Hydrophyllum appendiculatum  
 Hypericum ascyron  
 Hypericum pyramidatum  
 Hystrix patula  
 Impatiens pallida  
 Iris versicolor  
 Isopyrum bitermum  
 Juncus tenuis  
 Lactuca canadensis  
 Lilium michiganense  
 Lilium philadelphicum  
 Lilium superbum  
 Lippia lanceolata  
 Lonicera prolifera  
 Maianthemum canadense  
 Mentha arvensis  
 Mertensia virginica  
 Mimulus ringens

Mitella diphylla  
 Monarda fistulosa  
 Muhlenbergia sp.  
 Napaea dioica  
 Nepeta hederacea  
 Oryzopsis racemosa  
 Osmunda cinnamomea  
 Osmunda regalis  
 Oxalis europaea  
 Oxalis stricta  
 Parietaria pensylvanica  
 Phalaris arundinacea  
 Phlox pilosa  
 Physocarpus opulifolius  
 Pilea pumila  
 Poa palustris  
 Polygonatum biflorum  
 Polygonatum pubescens  
 Polygonum hydropiper  
 Polygonum sagittatum  
 Pteridium aquilinum  
 Ranunculus recurvatus  
 Ratibida pinnata  
 Rubus allegheniensis  
 Rubus occidentalis  
 Rumex altissimus  
 Salix amygdaloides  
 Salix interior  
 Sanicula marilandica  
 Saxifraga pensylvanica  
 Scutellaria lateriflora  
 Senecio aureus  
 Silphium perfoliatum  
 Sium suave  
 Solidago gigantea  
 Solidago ulmifolia  
 Spiraea alba  
 Staphylea trifolia  
 Stellaria longifolia  
 Symplocarpus foetida  
 Trientalis borealis  
 Trillium grandiflorum  
 Trillium recurvatum  
 Triosteum perfoliatum  
 Urtica dioica  
 Uvularia grandiflora  
 Vernonia fasciculata  
 Viola renifolia  
 Zizia aurea

Additional Species:



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 1

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:

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

*Solanum dulcamara*  
*Lythrum hyssagifolium*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 2

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:

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

*Glechoma hederacea*  
*Urtica dioica*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 3

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  
 Chamaecrista procumbens  
 Chelone glabra  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

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  
 Tofieldia virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

*Asclepias tuberosa*  
*Hedera*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 4

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:

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  
 Tovarua virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Gleichenia  
 Hedera



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
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  
 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 simplex

Glehnia  
 heteromela



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 6

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atropurpurea  
 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:

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  
 Osunda 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

*Viola blanda*  
*Glechoma hederacea*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
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  
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:

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



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 8

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:

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

*Handwritten notes:*  
 Scleranthus  
 Myle  
 Oxalis



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 9

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:

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

*Eleocharis  
 acicularis*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

 Stand No. 4065  
 Quadrat No. 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  
 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:

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

Hedera  
 hederacea



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 11

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:

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  
 Tovarua virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

*Isachne*  
*hederacea*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 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

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  
 Tovarva virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

*Solanum dulcamara*  
*Amphicarpia*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 13

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:

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



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 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*  
*Cicuta 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*

*Vitis riparia*

*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*

*Urtica dioica*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
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*  
*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:

*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*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 16

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atropurpurea  
 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  
 Chaeiophyllum procumbens  
 Chelone glabra  
 Cicutula 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  
 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

ash seedling  
 Asplenium  
 simplex



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 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*  
*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:

*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*

Maple seedling

*Osmorhiza longistylis*  
*Osunda 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*  
*Xanthoxylum americanum*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
Quadrat No. 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*  
*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:

*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*

*Viola blanda*

*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*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
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*  
*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:

*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*

Maple seedling

*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*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4065  
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  
 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  
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 Juncus tenuis  
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 Lippia lanceolata  
 Lobelia cardinalis  
 Lycopodium americana  
 Lycopodium uniflorum  
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 Menispermum canadense  
 Mertensia virginica  
 Mimulus ringens  
 Muhlenbergia sp.  
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 Smilax herbacea  
 Smilax hispida  
 Stachys palustris  
 Teucrium canadense  
 Thalictrum dasycarpum  
 Thalictrum dioicum  
 Tovarva virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Additional species:

*Boehmeria cylindrica**Lycopodium obscurum*