



# LIBRARIES

UNIVERSITY OF WISCONSIN-MADISON

## **Site 4053: Mekan River, Marquette County, Township 16N, Range 11E, Section 29. 1952-07-03**

[s.l.]: [s.n.], 1952-07-03

<https://digital.library.wisc.edu/1711.dl/3BSVL57NBEJKN8H>

This material may be protected by copyright law (Title 17, US Code).

For information on re-use see:

<http://digital.library.wisc.edu/1711.dl/Copyright>

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.

## STAND RECORD

## FORESTS

Stand No. 4053

Name: Mecan River

County: Marquette

Date: July 3, 1952

Size of Stand: 40 A

Forest Type: flood plain hardwoods

Topography:

Locality:

T: 16N

R: 11E

Sec: 29

SW 1/4 of SE 1/4

Observers: Ward, Ware, Bray

Size of Area Sampled: 40 A

Soil Type:

Slope:

Directions

Condition of Stand: Undisturbed for many years. Large soft maples and elms. Some overflow disturbance. Fair-sized areas of almost completely closed canopy - whole stand braided by former channels of Mecan River.

Open Grown Trees:

% Canopy:

Stumps:

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

Soil Data:

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

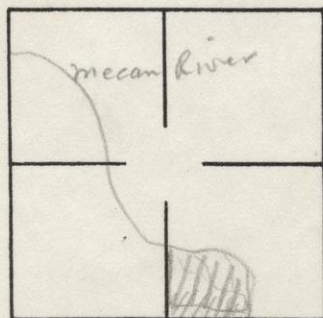
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

|                |                                                         |
|----------------|---------------------------------------------------------|
| A <sub>0</sub> | 1/2 in. little or none in most places                   |
| A <sub>1</sub> | 6 in. very dark and sandy                               |
| A <sub>2</sub> | no evidence of much change at a depth of 12 in. or more |
| B              |                                                         |

Parent Material: sandy, but not much evidence of alluviation  
Sec 29

Map:



State Highway 23



## POINT RECORD TREES

| STATION NO.        | 1   | 2          | 3   | 4         | 5   | 6          | 7   | 8          | 9        | 10  |
|--------------------|-----|------------|-----|-----------|-----|------------|-----|------------|----------|-----|
| Acer negundo       |     |            |     |           |     |            |     |            |          |     |
| A. saccharinum     | 100 | 150<br>320 | 260 | 70<br>140 | 65  |            | 200 | 700        |          | 340 |
| A. saccharum       |     |            |     |           |     |            |     |            |          |     |
| Betula nigra       |     |            |     |           |     |            |     |            |          |     |
| Carya cordiformis  |     |            |     |           |     |            |     |            |          |     |
| Celtis occident.   |     |            |     |           |     |            |     |            |          |     |
| Crataegus sp.      |     |            |     |           |     |            |     |            |          |     |
| Fraxinus americ.   |     |            |     |           |     |            |     |            |          |     |
| F. nigra           |     |            |     |           |     |            |     |            |          |     |
| F. pensylvanica    | 1   | 4          | 2   | 2         | 2   | 1          |     | 1          | 3        | 17  |
| 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           | 35  |            | 50  | 2         | 820 | 560<br>110 | 65  | 460<br>250 | 17<br>85 |     |
|                    |     |            |     |           |     |            |     |            |          |     |
|                    |     |            |     |           |     |            |     |            |          |     |
| Distance           | 15  | 17         | 30  | 21        | 33  | 22         | 26  | 26         | 12       | 16  |



2

Data Form No. 39  
POINT RECORD TREES

Plant Ecology Research  
FLOOD-PLAIN HARDWOODS

Univ. of Wisconsin  
Stand No. 4053

| STATION NO.        | 1                      | 2  | 3   | 4                 | 5   | 6  | 7   | 8    | 9  | 10  |
|--------------------|------------------------|----|-----|-------------------|-----|----|-----|------|----|-----|
| Acer negundo       |                        |    |     |                   |     |    |     |      |    |     |
| A. saccharinum     |                        |    | 18  | 460               |     |    |     | 1960 | 50 |     |
| A. saccharum       |                        |    |     |                   |     |    |     |      |    |     |
| Betula nigra       |                        |    |     |                   |     |    |     |      |    |     |
| Carya cordiformis  |                        |    |     |                   |     |    |     |      |    |     |
| Celtis occident.   |                        |    |     |                   |     |    |     |      |    |     |
| Crataegus sp.      |                        |    |     |                   |     |    |     |      |    |     |
| Fraxinus americ.   |                        |    |     |                   |     |    |     |      |    |     |
| F. nigra           |                        |    |     |                   |     |    |     |      |    |     |
| F. pensylvanica    | 50<br>30               |    | 3   | 1                 | 3   | 3  | 14  | 2    | 2  | 1   |
| Gleditsia triacan. |                        |    |     |                   |     |    |     |      |    |     |
| Gymnocladus dioica |                        |    |     |                   |     |    |     |      |    |     |
| Juglans cinerea    |                        |    |     |                   |     |    |     |      |    |     |
| Platanus occident. |                        |    |     |                   |     |    |     |      |    |     |
| Populus deltoides  |                        |    |     |                   |     |    |     |      |    |     |
| P. tremuloides     |                        |    |     |                   |     |    |     |      |    |     |
| Prunus serotina    |                        |    |     |                   |     |    |     |      |    |     |
| Quercus bicolor    |                        |    |     |                   | 470 |    |     | 270  |    |     |
| Q. rubra           |                        |    |     |                   |     |    |     |      |    |     |
| Robinia pseudo.    |                        |    |     |                   |     |    |     |      |    |     |
| Salix nigra        |                        |    |     |                   |     |    |     |      |    |     |
| Tilia americana    | 85<br>130<br>190<br>65 | 30 |     |                   |     | 85 |     | 1    | 3  | 100 |
| Ulmus americana    |                        |    |     |                   |     |    |     |      |    |     |
| U. rubra           |                        |    | 150 | 150<br>170<br>130 | 210 | 40 | 560 |      |    | 60  |
|                    |                        |    |     |                   |     |    |     |      |    |     |
|                    |                        |    |     |                   |     |    |     |      |    |     |
|                    |                        |    |     |                   |     |    |     |      |    |     |
| Distance           | 13                     | 15 | 24  | 12                | 21  | 26 | 22  | 30   | 11 | 70  |



| STATION NO.        | 1                              | 2   | 3          | 4         | 5                              | 6        | 7                | 8   | 9                | 10                             |
|--------------------|--------------------------------|-----|------------|-----------|--------------------------------|----------|------------------|-----|------------------|--------------------------------|
| Acer negundo       |                                |     |            |           |                                |          |                  |     |                  |                                |
| A. saccharinum     | 220                            |     |            |           | 250<br>130                     | 3        | 170 <sup>2</sup> |     | 15<br>160<br>110 | 90                             |
| A. saccharum       |                                |     |            |           |                                |          |                  |     |                  |                                |
| Betula nigra       |                                |     |            |           |                                |          |                  |     |                  |                                |
| Carya cordiformis  |                                |     |            |           |                                |          |                  |     |                  |                                |
| Celtis occident.   |                                |     |            |           |                                |          |                  |     |                  |                                |
| Crataegus sp.      |                                |     |            |           |                                |          |                  |     |                  |                                |
| Fraxinus americ.   |                                |     |            |           |                                |          |                  |     |                  |                                |
| F. nigra           |                                |     |            |           |                                |          |                  |     |                  |                                |
| F. pensylvanica    | 30                             |     | 2          |           | 170<br>140                     | 20<br>45 | 35               | 45  | 2                | 160                            |
| 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                              | 210 | L          |           | L                              |          |                  | 320 | L                | 4                              |
| Ulmus americana    |                                |     |            |           |                                |          |                  |     |                  |                                |
| U. rubra           |                                |     | 150<br>220 | 250<br>35 | L                              | L        |                  |     |                  |                                |
|                    |                                |     |            |           |                                |          |                  |     |                  |                                |
|                    |                                |     |            |           |                                |          |                  |     |                  |                                |
| Distance           | 31 <sup>1</sup> / <sub>2</sub> | 23  | 12         | 20        | 30 <sup>1</sup> / <sub>2</sub> | 29       | 17               | 22  | 12               | 18 <sup>1</sup> / <sub>2</sub> |



| STATION NO.        | 1   | 2  | 3            | 4                    | 5    | 6     | 7   | 8         | 9      | 10      |
|--------------------|-----|----|--------------|----------------------|------|-------|-----|-----------|--------|---------|
| Acer negundo       |     |    |              |                      |      |       |     |           |        |         |
| A. saccharinum     | 110 | 65 | 3 250<br>230 | 1                    |      | 3     | 2   | 310<br>65 |        | 1 660 3 |
| A. saccharum       |     |    |              |                      |      |       |     |           |        |         |
| Betula nigra       |     |    |              |                      |      |       |     |           |        |         |
| Carya cordiformis  |     |    |              |                      |      |       |     |           |        |         |
| Celtis occident.   |     |    |              |                      |      |       |     |           |        |         |
| Crataegus sp.      |     |    |              |                      |      |       |     |           |        |         |
| Fraxinus americ.   |     |    |              |                      |      |       |     |           |        |         |
| F. nigra           |     |    |              |                      |      |       |     |           |        |         |
| F. pensylvanica    | 22  | 1  | 1            | 130 3<br>Sing<br>110 | 65 2 | 170   | 230 |           |        |         |
| Gleditsia triacan. |     |    |              |                      |      |       |     |           |        |         |
| Gymnocladus dioica |     |    |              |                      |      |       |     |           |        |         |
| Juglans cinerea    |     |    |              |                      |      |       |     |           |        |         |
| Platanus occident. |     |    |              |                      |      |       |     |           |        |         |
| Populus deltoides  |     |    |              |                      |      |       |     |           |        |         |
| P. tremuloides     |     |    |              |                      |      |       |     |           |        |         |
| Prunus serotina    |     |    |              |                      |      |       |     |           |        |         |
| Quercus bicolor    |     |    |              |                      |      |       |     |           |        |         |
| Q. rubra           |     |    |              |                      |      |       |     |           |        |         |
| Robinia pseudo.    |     |    |              |                      |      |       |     |           |        |         |
| Salix nigra        |     |    |              |                      |      |       |     |           |        |         |
| Tilia americana    |     | 35 | 1            |                      |      | 2 180 |     |           | 150    | 1       |
| Ulmus americana    |     |    |              |                      |      |       |     |           |        |         |
| U. rubra           | 1   |    |              |                      | 240  |       | 190 |           | 320 2  | 90      |
|                    |     |    |              |                      |      |       |     |           |        |         |
|                    |     |    |              |                      |      |       |     |           |        |         |
|                    |     |    |              |                      |      |       |     |           |        |         |
| Distance           | 23  | 38 | 18 1/2       | 27                   | 16   | 17    | 32  | 20 1/2    | 25 1/2 | 12      |



Presence ~~or Frequency~~  
(Common species only)

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
~~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  
Athyrum filix-femina  
Athyrum 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:

*Carex lacustris*  
*Carex rostrata*  
*Scutellaria lateriflora*



Presence List  
(Uncommon species)

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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 albursina  
Carex alopecoidea  
Carex convoluta  
Carex cristata  
Carex grisea  
Carex laxiflora  
Carex molesta  
Carex muskingumensis  
Carex pennsylvanica  
Carex projecta  
Carex stipata  
Carex tribuloides  
Carex typhina  
Carex vesicaria  
Cassia marilandica  
Chaerophyllum 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 nyctelea  
Elymus virginicus  
Epilobium palustris  
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 pennsylvanica  
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 pennsylvanica  
Scutellaria lateriflora  
Senecio aureus  
Silphium perfoliatum  
Sium suave  
Solidago gigantea  
Solidago ulmifolia  
Spiraea alba  
Staphylea trifolia  
Stellaria longifolia  
Symlocarpus foetida  
Trientalis borealis  
Trillium grandiflorum  
Trillium recurvatum  
Triosteum perfoliatum  
Urtica dioica  
Uvularia grandiflora  
Vernonia fasciculata  
Viola renifolia  
Zizia aurea

Additional Species:

Apios tuberosa

Solanum dulcamara  
Glyceria striata



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
Quadrat No. 1

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  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

Additional species:

Oxalis yellow  
 Aster lat.

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

*Dioscorea villosa*  
*Thalictrum*

*Ribes americanum*

*Glyceria striata*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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*  
*Chaetophyllum 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 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*

*Aster lat*  
*Dioscorea villosa*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No.4053  
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  
 Chaetophyllum 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

elm seedling  
 ash 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  
 Tovar virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Bromococcis stellata  
 Carex lacustris



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

 Stand No. 4053  
 Quadrat No. 4

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  
 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

ash oak  
 Dioscorea villosa



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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

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

Symplocarpus foetida  
 Viola cucullata

Dioscorea villosa

Glyceria

off. mag. seedling  
 fruiting state  
 strigata  
 ebr. seedling



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

Additional species:

Cirsium sp.

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

Vitis fusca  
 Carex acutata  
 Carex rosea  
 Glyceria striata

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



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
Quadrat No. 7

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  
 Cicutula maculata  
 Clematis virginiana  
 Cornus obliqua

Additional species:

*Circaea quad.*

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  
 Laporthea 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

*Shm 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  
 Tovar virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

*Cuscuta groenlandica*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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

also see  
 Urtica dioica

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

Smilacina stellata  
 Glyceria striata



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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

elm seedling  
 Smilax latifolia  
 Scutellaria  
 latifolia

Dryopteris thelypteris



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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  
 Tovara virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

*Discovium villosa*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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  
 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

*Vitis cucullata*  
*Syntherisma foetida*  
*Syntherisma thelypod*  
*Mentha*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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  
 Tovara virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

Carex rosea  
 Ch. sedgwickii  
 Smilax latifolia  
 Smilax racemosa

Symphoricarpos foetida  
 Lonicera villosa



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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  
 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

Synthyris  
 Lactuca  
 Synthyris  
 spinulosa

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

Lactuca coll



4053

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
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  
 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

*Dryopteris spinulosa*  
*Smilax stellata*  
*Dioscorea villosa*

*Solanum dulcamara*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

 Stand No. **4053**  
 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  
 Cicutu 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 cucullata*

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  
 Tovar virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum



4053

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

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  
 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:

~~Glyceria striata~~  
~~Sparganium angustifolium~~  
 Viola cucullata

Prunus virginiana



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No.4053  
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  
 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

*Dioscorea villosa*  
 elm seedling



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
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  
 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

*elm seedling*  
*Aster lateriflorus*

*Smilacina stellata*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

 Stand No. 4053  
 Quadrat No. 19

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  
 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  
 Lappula 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:



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4053  
Quadrat No. 70

Acorus calamus  
 Alisma subcordatum  
 Amorpha fruticosa  
 Anemone canadensis  
 Anemone virginiana  
 Angelica atropurpurea  
 Arisaema atrorubens  
 Arisaema dracontium  
 Asarum canadense  
 Asclepias incarnata  
 Bidens coronata  
 Bidens yulgata  
 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  
 Cicutu 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 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

elm seedling  
 Glyceria striata  
 Viola pubescens