



# LIBRARIES

UNIVERSITY OF WISCONSIN-MADISON

## **Site 4050: Waubeka - Fredonia, Ozaukee County, Township 12N, Range 21E, Section 27. 1952-05-29**

[s.l.]: [s.n.], 1952-05-29

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## STAND RECORD

## FORESTS

Stand No. 4050

Name: Waukega-Fredonia

County: Ozaukee

Date: 5-29-52

Size of Stand: 10 A

Forest Type:

Topography:

Locality:

T: 12N R: 21E Sec: 27

SW 1/4 SW 1/4

Observers: Ward, Ware

Size of Area Sampled: 10 A

Soil Type:

Slope:

Directions

Condition of Stand: Some old cutting; woods with closed canopy only in a few places. Some large trees.

## Open Grown Trees:

## % Canopy:

## Stumps:

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

## Soil Data:

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

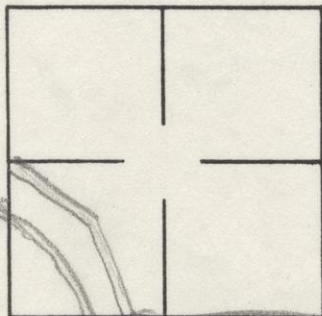
## DEPTH

## CHARACTERISTICS (Color, Texture, Structure, etc.)

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

## Parent Material:

## Map:



Milwaukee  
River



| STATION NO.         | 1        | 2  | 3   | 4                       | 5  | 6               | 7  | 8        | 9   | 10             |
|---------------------|----------|----|-----|-------------------------|----|-----------------|----|----------|-----|----------------|
| Acer negundo        |          |    |     |                         |    |                 |    |          |     |                |
| A. saccharinum      |          |    |     |                         |    |                 |    |          |     |                |
| A. saccharum        | 45<br>17 | 60 | 1   |                         | 1  | 100<br>80<br>50 | 1  | 1        | 1   | 30<br>95<br>45 |
| Betula nigra        |          |    |     |                         |    |                 |    |          |     |                |
| ✓ Carya cordiformis | 1        |    |     |                         |    |                 |    |          |     |                |
| Celtis occident.    |          |    |     |                         |    |                 |    |          |     |                |
| Crataegus sp.       |          |    |     |                         |    |                 |    |          |     |                |
| ✓ Fraxinus americ.  |          | 70 |     |                         |    |                 |    |          |     |                |
| ✓ F. nigra          |          |    |     |                         |    |                 |    |          | 90  |                |
| F. pensylvanica     |          |    |     |                         |    |                 |    |          |     |                |
| Gleditsia triacan.  |          |    |     |                         |    |                 |    |          |     |                |
| Gymnocladus dioica  |          |    |     |                         |    |                 |    |          |     |                |
| Juglans cinerea     |          |    |     |                         |    |                 |    |          |     |                |
| Platanus occident.  |          |    |     |                         |    |                 |    |          |     |                |
| Populus deltoides   |          |    |     |                         |    |                 |    |          |     |                |
| P. tremuloides      |          |    |     |                         |    |                 |    |          |     |                |
| Prunus serotina     |          |    |     |                         |    |                 |    |          |     |                |
| Quercus bicolor     |          |    | 130 |                         |    | 140             | 70 |          | 140 | 15             |
| Q. rubra            |          |    |     |                         |    |                 |    |          |     |                |
| Robinia pseudo.     |          |    |     |                         |    |                 |    |          |     |                |
| Salix nigra         |          |    |     | 30<br>130<br>150<br>250 |    |                 |    |          |     |                |
| Tilia americana     | 1        |    | 1   | 120<br>170              | 1  | 2               |    | 90<br>18 |     |                |
| Ulmus americana     |          |    |     | 45                      | 35 | 1               |    | 25       |     | 2              |
| U. rubra            |          |    | 50  |                         |    |                 |    |          |     |                |
| Astrya              | 1        | 3  | 2   | 1                       | 1  |                 |    | 1        |     | 1              |
| Corylus             | 1        |    |     |                         | 1  |                 |    | 3        |     |                |
| Fagus               |          |    |     | 50                      | 2  |                 | 1  |          |     |                |
| Distance            | 22       | 16 | 30  | 27                      | 21 | 14              | 18 | 12       | 17  | 20             |

Quercus velutina



| STATION NO.                       | 1   | 2  | 3   | 4   | 5   | 6  | 7  | 8        | 9  | 10         |
|-----------------------------------|-----|----|-----|-----|-----|----|----|----------|----|------------|
| Acer negundo                      |     |    |     |     |     |    |    |          |    |            |
| A. saccharinum                    |     |    |     |     |     |    |    |          |    |            |
| A. saccharum                      |     |    |     | 1   |     |    |    |          |    |            |
| Betula <sup>yellow</sup> nigra    |     |    |     |     |     | 50 |    |          |    |            |
| Carya cordiformis                 |     |    |     |     |     |    |    |          |    |            |
| Celtis occident.                  |     |    |     |     |     |    |    |          |    |            |
| Crataegus sp.                     |     |    |     |     |     |    |    |          |    |            |
| Fraxinus americ.                  | 170 | 85 |     |     |     |    |    |          |    | 100<br>150 |
| F. nigra                          |     |    |     |     |     |    |    |          |    |            |
| F. pensylvanica                   |     |    |     |     |     |    |    |          |    |            |
| Gleditsia triacan.                |     |    |     |     |     |    |    |          |    |            |
| Gymnocladus dioica                |     |    |     |     |     |    |    |          |    |            |
| Juglans cinerea                   |     |    |     |     |     |    |    |          |    |            |
| Platanus occident.                |     |    |     |     |     |    |    |          |    |            |
| Populus deltoides                 |     |    |     |     |     |    |    |          |    |            |
| P. <sup>grandil</sup> tremuloides |     |    |     |     |     |    | 30 |          |    |            |
| Prunus serotina                   |     |    |     |     |     |    |    |          |    |            |
| Quercus <sup>br</sup> bicolor     |     |    | 45  |     | 100 |    |    |          |    |            |
| Q. rubra                          |     |    |     |     |     |    | 1  |          |    |            |
| Robinia pseudo.                   |     |    |     |     |     |    |    |          |    |            |
| Salix nigra                       |     |    |     |     |     |    |    |          |    |            |
| Tilia americana                   | 1   | 17 | 2   | 1   | 1   |    |    |          |    |            |
| Ulmus americana                   | 110 | 70 | 190 | 190 | 1   | 35 |    |          | 55 |            |
| U. rubra                          |     |    |     |     |     |    |    |          |    |            |
| Crataegus                         | 2   |    |     |     |     |    |    | 35<br>20 |    |            |
| Fagus                             |     |    |     | 100 | 45  |    | 30 | 2        | 70 | 30         |
| Hamamelis                         |     |    |     | 1   |     |    |    |          |    | 20         |
| Cedrus                            | 12  | 10 | 23  | 26  | 24  | 23 | 25 | 25       | 19 | 20         |
| Distance                          |     |    |     |     |     |    |    |          |    |            |

Carpinus

(4)



| STATION NO.                                 | 1      | 2        | 3  | 4  | 5  | 6   | 7  | 8  | 9   | 10 |
|---------------------------------------------|--------|----------|----|----|----|-----|----|----|-----|----|
| Acer negundo                                |        |          |    |    |    |     |    |    |     |    |
| A. saccharinum                              |        |          |    |    |    |     |    |    |     |    |
| ✓ A. saccharum                              | 130    |          | ✓  | 4  | 35 | 1   |    | 12 | 120 | 75 |
| ✓ Betula <sup>lutea</sup> <del>nigra</del>  |        |          | 50 |    |    |     |    |    |     |    |
| ✓ Carya cordiformis                         |        | 16<br>15 |    |    |    |     |    |    |     |    |
| Celtis occident.                            |        |          |    |    |    |     |    |    |     |    |
| Crataegus sp.                               |        |          |    |    |    |     |    |    |     |    |
| ✓ Fraxinus americ.                          |        |          |    |    |    |     | 1  |    |     |    |
| ✓ F. nigra                                  |        |          |    |    |    |     |    |    |     |    |
| ✓ F. pensylvanica                           |        |          |    |    |    |     |    |    |     |    |
| Gleditsia triacan.                          |        |          |    |    |    |     |    |    |     |    |
| Gymnocladus dioica                          |        |          |    |    |    |     |    |    |     |    |
| Juglans cinerea                             |        |          |    |    |    |     |    |    |     |    |
| Platanus occident.                          |        |          |    |    |    |     |    |    |     |    |
| Populus deltoides                           |        |          |    |    |    |     |    |    |     |    |
| P. tremuloides                              |        |          |    |    |    |     |    |    |     |    |
| ✓ Prunus serotina                           |        |          |    |    |    |     |    |    |     |    |
| ✓ Quercus <sup>bur</sup> <del>bicolor</del> |        |          |    |    |    |     |    | 35 |     | 55 |
| ✓ Q. rubra                                  |        |          |    |    |    |     |    |    | 280 |    |
| Robinia pseudo.                             |        |          |    |    |    |     |    |    |     |    |
| Salix nigra                                 |        |          |    |    |    |     |    |    |     |    |
| Tilia americana                             |        |          |    |    |    | 4   | 1  |    |     | 2  |
| Ulmus americana                             | 100    | 1        |    |    |    | 60  |    |    |     |    |
| U. rubra                                    |        | 1        |    |    |    | 170 |    |    |     |    |
| ✓ Carpinus                                  |        | 1        |    |    |    |     | 3  | 1  |     | 1  |
| ✓ Castanea                                  |        |          | 35 |    |    |     | 1  | 1  | 3   |    |
| Fagus                                       |        |          |    | 65 | 22 | 55  |    |    |     | 40 |
| Distance                                    | 13 1/2 | 26       | 19 | 22 | 21 | 18  | 15 | 21 | 17  | 18 |

Hamamelis



| STATION NO.        | 1   | 2  | 3   | 4  | 5  | 6   | 7  | 8 | 9 | 10 |
|--------------------|-----|----|-----|----|----|-----|----|---|---|----|
| Acer negundo       |     |    |     |    |    |     |    |   |   |    |
| A. saccharinum     |     |    |     |    |    |     |    |   |   |    |
| A. saccharum       |     | 1  | 2   |    |    |     |    |   |   |    |
| 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    | 120 |    | 230 |    |    |     |    |   |   |    |
| Ulmus americana    |     | 40 |     | 80 | 2  | 100 | 35 | 3 |   |    |
| U. rubra           |     |    | 180 |    |    |     |    |   |   |    |
| beech              | 45  | 2  | 30  | 1  |    |     |    |   |   |    |
| cestruga           | 1   |    |     | 50 | 1  |     |    |   |   |    |
| Caryinus           |     |    | 2   |    |    | 1   |    |   |   |    |
| Distance           | 7   | 12 | 25  | 20 | 16 |     |    |   |   |    |



Presence or Frequency  
(Common species only)

## FLOOD-PLAIN HARDWOODS

Stand No. 4050  
Quadrat No.

~~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:

*Claytonia virginiana*  
*Cyrtopteris fragilis*  
*Cardamine douglasii*  
*Coptis trifolia*  
*Lithospermum latifolius*  
*Lysimachia quadrifolia*

*Carex rosea* (w-7)  
*Carex blanda* (w-1)  
*Solidago altissima*  
*Aster macrophyllus*



Presence List  
(Uncommon species)

## FLOOD-PLAIN HARDWOODS

Stand No. 4050

~~Quadrat No.~~~~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 pensylvanica

Carex projecta

Carex stipata

Carex tribuloides

Carex typhina

Carex vesicaria

Cassia marilandica

~~Chaerophyllum thalictroides~~

Galatrus 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 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 biternatum~~

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

5-29-52 WAUWATONIA  
G.W. Stand No. 4050  
R.T.W. 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  
Chaetophyllum procumbens  
Chelone glabra  
Cicuta maculata  
Clematis virginiana  
Cornus obliqua

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

Osmorhiza longistylis  
Osmunda regalis  
Parthenocissus inserta  
Phlox divaricata  
Physostegia virginiana  
Poa palustris  
Polygonatum canaliculatum  
Polygonum sagittatum  
Ranunculus 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

Additional species:

*Carex blanda*

*Hydrophyllum virg.*  
*Alnus incana*

*Solidago ulmifolia*  
*Solidago - aspera*  
*altissima*



WAB.

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

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*  
*Cicuta maculata*  
*Clematis virginiana*  
*Cornus obliqua*

Additional species:

*Claytonia virginica* ✓  
 Seedling (w-1)  
*Alnus incana*

*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*

*Mitella diphylla* ✓  
*Hydrocot. virg.* ✓  
*Tragac. virgin.* ✓

*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*

*Solidago - altissima*  
*Solidago ulmifolia* ✓  
*Prenanthes alba*  
*Carex flacca*  
*Sanguinaria canadense*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Waubesa Stand No.  
 Quadrat No. 3

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

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

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus 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

Additional species:

Allium tricoccum  
 Carex heliophila

Hydrophyllum virginicum ✓

Sanguinaria canadensis  
 Solidago ulmifolia



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Waubesa

Stand No.

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

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 clayton* ✓  
 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:

*Lycopodium heterophyllum*  
 "L. (w-5, 4)

*Hydrophyllum virginicum* ✓  
*Lithospermum latifolium*  
*Aceraceum maximum*

*Smilacina racemosa* ✓  
*Solidago ulmifolia* ✓  
*Maranthus canadensis* ✓  
*Ribes cynosbati*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

WABED  
Stand No.  
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  
Cicuta maculata  
Clematis virginiana  
Cornus obliqua

Cornus stolonifera  
Cryptotaenia canadensis  
Echinocystis lobata  
Ellisia nyctelea  
Elymus virginicus  
Epilobium palustris  
Galium aparine  
Galium concinnum  
Galium obtusum  
Galium tinctorium  
Geranium maculatum ✓  
Geum canadense  
Glyceria nervata  
Helenium autumnale  
Hypericum pyramidatum  
Ilex verticillata  
Impatiens capensis  
Iris virginica  
Juncus tenuis  
Laporteia 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

*Osman. clayton* ✓  
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

Additional species:

*Circaea quad.* ✓  
*Mint (w-5)*  
*"Sily" (w-5)*  
*Carex (w-5)*

*Aeraculum map.* ✓  
*Hydrophyllum virg.* ✓  
*Sagittaria latifolia*

*Solid. ulmifolia* ✓  
*Podophyllum pelt.* ✓  
*Trillium grandiflorum* ✓



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

W. K. B. Stand No.  
 Quadrat No. 6

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

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

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus 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

Additional species:

Carex (Alisma)  
 Aster shortii ✓  
 Allium triace

Hydrophyllum virginicum ✓  
 Eriogonum bistratum ✓

Smilacina racemosa ✓



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

WAUBES

Stand No.

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*

*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*  
*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*

## Additional species:

*Carex blanda*  
*Allium tricorne*  
*Aster shortii* ✓  
*Carex rosea*

*Horaceum mox* ✓  
*Lycopodium laterale* ✓  
*Hydrophyllum virginicum* ✓

*Solidago ulmifolia* ✓  
*Sanguinaria canadensis* ✓  
*Smilax racemosa*  
*Sanicula marilandica*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

W. A. B. Stand No.  
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  
 Cicuta maculata  
 Clematis virginiana  
 Cornus obliqua

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

Osmorhiza longistylis  
 Osmunda regalis  
 Parthenocissus inserta  
 Phlox divaricata  
 Physostegia virginiana  
 Poa palustris  
 Polygonatum canaliculatum  
 Polygonum sagittatum  
 Ranunculus 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

Additional species:

Carex (del) *obliqua*  
 Aster macrophyllum  
 2 (W-8) (comp)

Hydrophyllum v. *virg.*  
 Isop. *lutea* ✓  
 Beraclem. *map.*

Polygonatum *pubescent*  
 Sanicula *marit.* ✓  
 Smil. *racemosa*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

 6 AUG  
 Stand No.  
 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  
 Cicuta maculata  
 Clematis virginiana  
 Cornus obliqua

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

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

Additional species:

Carex (w-8)  
 Solidago (w-8)  
 Cliftonia virginica  
 Mirt (w-9)

Hieracium m...  
 Hydrophyllum virg...  
 Lycopodium lat...

Sol. ulmifolia ✓  
 Smilacina racem... ✓  
 Sanicula maritima ✓



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
Quadrat No. 10

WAMP,

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  
 Tovar virginiana  
 Viburnum lentago  
 Viola cucullata  
 Vitis riparia  
 Xanthoxylum americanum

## Additional species:

Cater shortii

C. ch. quad.

W-10 2 hydrophyllum

Desmodium illinoense

Hydrophyllum virginicum

Sanicula maritima ✓

Prenanthes alba

Sol. ulmifolius ✓



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

W. 100, Stand No.  
 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

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:

*Carex flacca*

*Narrow leaved Aster (W.S.)*  
*(W-10) 3/10/11*  
*small 3/10/11*

*Hy. virg.*  
*Isobit*

*Hepat. acutifolia*  
*Dentaria laciniata*  
*Allium triquetrum*

*Smil. race* ✓  
*Maianth. canad.*  
*Trillium grandiflorum* ✓



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
 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:

Allium triace ✓  
 narrow-leaved (w-8)

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

Hepat. acutoloba ✓  
 Hydro. virg ✓  
 Iso. lites ✓  
 Maian. can (1 fr?)

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

Sol. ulm ✓  
 Rudbeckia lacini? ✓  
 Sanic. maril ✓



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

W-10, Stand No.  
Quadrat No. 13

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:

Claytonia virgin.  
 Aster (W-8)  
 W-10 - Small 7 petalled - 2 hydro.  
 Carex (blond)  
 Aster shortii

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

Circaea quadr.  
 Mitella diphylla  
 Elymus cristatus  
 Hydro. virgin.  
 Hepat. acut.

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 ✓

Polygonum pubescens  
 Sol. ulm ✓  
 Potamogeton alba  
 Sanic. maril.  
 Rubus cuneolatus



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

WAB

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*  
*Cicuta maculata*  
*Clematis virginiana*  
*Cornus obliqua*

Additional species:

*Carex (sp.)*  
*Aster (w-8)*

*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*

*Isotria medeoloides* ✓

*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* ✓

*Ribes cynosbati*  
*Sanic. marit.*  
*Sol. ulm.* ✓



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

WABF

Stand No.

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*

*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*  
*Laporteia canadensis*  
*Leersia oryzoides*  
*Lippia lanceolata*  
*Lobelia cardinalis*  
*Lycopus americana*  
*Lycopus uniflorus*  
*Lysimachia ciliata*  
*Menispermum canadense*  
*Mertensia virginica*  
*Mimulus ringens*  
*Muhlenbergia sp.*  
*Napaea dioica*  
*Onoclea sensibilis*

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

Additional species:

*Carex (sp.)*  
*7-partis (W-10)*  
 = *Hydrophyllum*

*Isoetes*  
*with dipter*  
*Hydrophyllum*

*Sol. ulm.*  
*San. maril.*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

WKB,

Stand No.  
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 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:

Carex blanda  
 Arcaea quod  
 WKB (16)

Hydro. virg.  
 Mithel. digly  
 Iso. hetero

Podo pelt.  
 Sangon. canad.  
 Sarracenia  
 Sol. ulm.  
 Smil. racemosa  
 Smil. stell. ✓



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

WAB

Stand No.  
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:

*Carex (Blau)*  
*Aster shortii*  
*Scutellaria lacini.*  
*Fern (w-17)*  
*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*  
*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*

*Hepad. and.*  
*Hydro virg.*  
*Nit. diph.*  
*Zoo. betw.*  
*Shymin. ring.*

*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*

*Sarg. canad.*  
*San. marit.*  
*Osmo. clayt.*  
*Sol. Wm.*  
*Smilac. stell.*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.  
 Quadrat No. 18  
 W. K. B.

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

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

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

Additional species:

Carex oligosperma  
 Dent. lac.  
 Aster shortii

Hepat. acut.  
 Hydro. v. g.  
 Asmodea chry.  
 Oso. lutea.

Polyg. puber.  
 Trill. grand.  
 San. maid.  
 Sangu. canad.



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No.

Quadrat No. 19

WMB

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  
 Tovara virginiana  
 Viburnum lentago  
 Viola cucullata ✓  
 Vitis riparia  
 Xanthoxylum americanum ✓

Additional species:

Carex debilis  
 Sium virg.  
 Claytonia virginica

Geo. bot.  
 Hydro. virg.

Sang. canad.  
 Sant. maid.  
 Sol. ulm ✓  
 Smil. stell ✓  
 Viola pubesc ✓



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

W A U B - Stand No.  
Quadrat No. 20

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

Hydrophyllum  
 Zosteris  
 Cardus douglasii

Sol. ulm.  
 Sanicula maritima