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## **Site 4056: Vernon, Waukesha County, Township 5N, Range 19E, Section 5. 1952-07-11**

[s.l.]: [s.n.], 1952-07-11

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STAND RECORD

FORESTS

Stand No. 4056

Name: Vernon  
 County: Waukesha  
 Date: July 11, 1952  
 Size of Stand: 20A  
 Forest Type:  
 Topography:

Locality:  
 T: 5N R: 19E Sec: 5 NE 1/4 NE 1/4  
 Observers: Ward, Ware  
 Size of Area Sampled: 10A  
 Soil Type:  
 Slope: Directions

Condition of Stand: good only in a few places. Few large trees, but a complete canopy of small and medium trees. Fringes of stand with quite a bit of tamarack. Floor of stand slightly quaky in places.

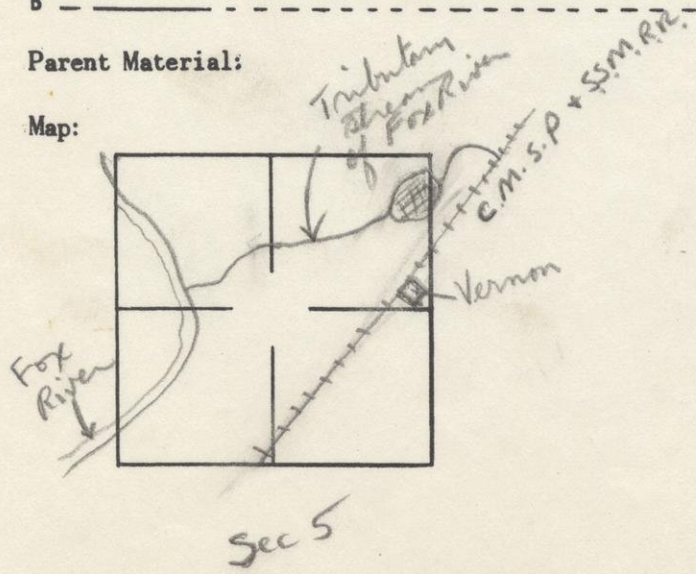
Open Grown Trees:	% Canopy:		
Stumps:			
1.	4.	7.	10.
2.	5.	8.	11.
3.	6.	9.	12.

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>	_____ <u>little or none</u>
A <sub>1</sub>	_____ <u>black with much humus - no change to a depth of 1 ft</u>
A <sub>2</sub>	_____
B	_____

Parent Material:

Map:



STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer negundo										
A. saccharinum										
A. <del>saccharinum</del> saccharum										310
Betula nigra										
Carya cordiformis										
Celtis occident.										
Crataegus sp.										
Fraxinus americ.										
F. nigra										
F. pensylvanica	29	4	35	3	2	1	1	1		
Gleditsia triacan.										
Gymnocladus dioica										
Juglans cinerea										
Platanus occident.										
Populus deltoides										
P. tremuloides										
Prunus serotina										
Quercus bicolor										
Q. rubra										
Robinia pseudo.										
Salix nigra										
Tilia americana			10			16	30 24	60 100		1
Ulmus americana										
U. rubra	80	100	330	90	170	90	60	2	60	17
A. mel 2nd			1	1	1		2		13	1
Birch 7				40			1			
Cornus									1	2
Distance	15	18	17	22	17 1/2	19	27 1/4	24	9	21 1/2

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer negundo										
A. saccharinum										
A. <del>saccharum</del> <sup>rubra</sup>					110		1	1		
Betula nigra										
Carya cordiformis										
Celtis occident.										
Crataegus sp.										
Fraxinus americ.										
F. nigra										
F. pensylvanica	1	1				1				3
Gleditsia triacan.										
Gymnocladus dioica										
Juglans cinerea										
Platanus occident.										
Populus deltoides										
P. tremuloides										
Prunus serotina										
Quercus <del>bicolor</del> <sup>macro</sup>										130
Q. rubra										
Robinia pseudo.										
Salix nigra										
Tilia americana										
Ulmus americana										
U. rubra	90 260			29 100		42 70	260 50	121 120	13 19	320
<i>Prunus</i>	26	3	17/2	35 70/4	30	1				
<i>Cornus</i>							2	1	1	1
<i>Smilax</i>										
Distance	17	7 1/2	10 1/2	12 1/2	12	12 1/2	20	15 1/2	11	21

STATION NO.	1	2	3	4	5	6	7	8	9	10
Acer negundo										
A. saccharinum										
A. <sup>rubrum</sup> saccharum		45	110 400							
Betula nigra										
Carya cordiformis										
Celtis occident.										
Crataegus sp.										
Fraxinus americ.										
F. nigra										
F. pensylvanica	29	1				30		12	4	27
Gleditsia triacan.								40	35	35
Gymnocladus dioica										
Juglans cinerea										
Platanus occident.										
Populus deltoides										
P. tremuloides										
Prunus serotina										
Quercus bicolor										
Q. rubra										
Robinia pseudo.										
Salix nigra										
Tilia americana	95	1				45				
Ulmus americana										
U. rubra		75	50		990		40	290		3
<sup>vrh</sup> Prunus	2	1	3	55	3	65	2	3		
Cornus				100			2	1		
Lonic							23			
Distance	20	25	25	17	25	24	14	14	12	9

Presence or Frequency  
(Common species only)

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
~~Quadrat No.~~

Presence

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

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

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

Additional species:

*Heracleum*  
*like comst.*

*Aster pumiceus*  
*Bromus latiflorus*  
*Amelanchier*

ATHAY  
RIB MO  
GE  
RUS PUB  
AST PUN  
STACHS  
ULM  
LON  
RHUVER  
LAL  
PRU

Presence List  
(Uncommon species)

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No.

Presence

Acorus calamus	Comandra umbellata	Mitella diphylla
Actaea pachypoda	Cornus alternifolia -	Monarda fistulosa
Actaea rubra	Cuscuta sp.	Muhlenbergia sp.
Agastache scrophulariaefolia	Dentaria laciniata	Napaea dioica
Agropyron trachycaulum	Desmodium nudiflorum	Nepeta hederacea
Alisma subcordatum	Dicentra cucullaria	Oryzopsis racemosa
Alnus incana	Diervilla lonicera	Osmunda cinnamomea -
Alnus rugosa	Dryopteris cristata -	Osmunda regalis
Ambrósia trifida	Dryopteris spinulosa	Oxalis europaea
Amorpha fruticosa	Dryopteris thelypteris	Oxalis stricta
Anemone quinquefolia	Ellisia nyctelea	Parietaria pensylvanica
Anemonella thalictroides	Elymus virginicus	Phalaris arundinacea
Angelica atropurpurea	Epilobium palustris	Phlox pilosa
Apios americana	Equisetum arvense	Physocarpus opulifolius
Aralia hispida	Equisetum hyemale	Pilea pumila
Aralia racemosa	Erigeron philadelphicus	Poa palustris
Asclepias incarnata	Erigeron pulchellus	Polygonatum biflorum
Aster cordifolius	Erythronium albidum	Polygonatum pubescens
Aster sagittifolius	Eupatorium perfoliatum	Polygonum hydropiper
Aster shortii	Eupatorium purpureum	Polygonum sagittatum
Bidens connata	Eupatorium rugosum	Pteridium aquilinum
Bidens coronata	Euonymus atropurpureus	Ranunculus recurvatus
Bidens frondosa	Festuca obtusa	Ratibida pinnata
Bidens vulgata	Fragaria vesca	Rubus allegheniensis
Botrychium virginianum	Galium tinctorium	Rubus occidentalis
Bromus purgans	Gerardia gradiflora	Rumex altissimus
Calamagrostis canadensis	Geum strictum	Salix amygdaloides
Carex albursina	Hackelia virginica	Salix interior
Carex alopecoidea	Helenium autumnale	Sanicula marilandica
Carex convoluta	Helianthus strumosus	Saxifraga pensylvanica
Carex cristata	Hepatica acutiloba	Scutellaria lateriflora
Carex grisea	Heracleum maximum	Senecio aureus
Carex laxiflora	Hydrophyllum appendiculatum	Silphium perfoliatum
Carex molesta	Hypericum ascyron	Sium suave
Carex muskingumensis	Hypericum pyramidatum	Solidago gigantea -
Carex pensylvanica	Hystrix patula -	Solidago ulmifolia
Carex projecta	Impatiens pallida	Spiraea alba
Carex stipata	Iris versicolor	Staphylea trifolia
Carex tribuloides	Isopyrum biternatum	Stellaria longifolia
Carex typhina	Juncus tenuis	Symplocarpus foetida -
Carex vesicaria	Lactuca canadensis	Trientalis borealis
Cassia marilandica	Lilium michiganense	Trillium grandiflorum
Chaetophyllum thalictroides	Lilium philadelphicum	Trillium recurvatum
Galástrus scandens	Lilium superbum	Triosteum perfoliatum
Chaerophyllum procumbens	Lippia lanceolata	Urtica dioica
Chelone glabra	Lonicera prolifera	Uvularia grandiflora
Cicuta bulbifera	Maianthemum canadense -	Vernonia fasciculata
Circaea alpina	Mentha arvensis	Viola renifolia
Clematis virginiana	Mertensia virginica	Zizia aurea
Clintonia borealis	Mimulus ringens	

Additional Species:

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 1

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus arbortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laporteia canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

*Athyrium*  
*argenteum*  
*Cornus alt. coll.*  
*Aster*

*Sanguinaria*  
*Polygonum pubesc.*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 2

Acorus calamus	Cornus stolonifera	Osmorhiza <sup>claytoni</sup> longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus arbortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laporteia canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

Aster lat.

Polygonum  
Symbicarpa  
Ribes missouriense

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 3

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	<del>Parthenocissus inserta</del>
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	<del>Galium aparine</del>	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	<del>Geum canadense</del>	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	<del>Impatiens capensis</del>	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	<del>Laportea canadensis</del>	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	<del>Thalictrum dasycarpum</del>
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

Adiantum

Polemonium reptans

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056

Quadrat No. 4

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laporteia canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species

*Solidago gigantea*  
*Desm. illinoensis*  
*Aster - Phytolacca*  
*lancea*

*Rubus pubescens*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 5

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laportea canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species

*Platanus canadense*  
*Athyrium* sp.

*Viola cucullata*  
*Polygonatum*  
*pubescens*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 6

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laportea canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaetophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

*Triss. all. - Herb. p. 110*  
*Viola cucullata*  
*Marrubium*  
*artemisia*

*Ribes missouriense*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
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  
 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:

*Aster latifolius*  
*Physalis*  
*Gloss. hypoleuca*  
*Mimulus*

*Rubus parviflorus*  
*Vitis cucullata*  
*Polygonum septem*  
*Aster pumilus*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
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~~ *cinn*  
 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:

*Aster laevis*  
*Aster pruniceus*

*Rubus*  
*Spilargis*  
*Hyptis*

*Rubus*  
*Spilargis*  
*Hyptis*

*Viola cucullata*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 9

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laportea canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaetophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum
Additional species:		

*Aster pumilus*  
*Polygonatum*  
*Rubus*  
*Polemonium*  
*Rumex*



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 10

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	<del>Echinocystis lobata</del>	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
<del>Arisaema atrorubens</del>	<del>Galium aparine</del>	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	<del>Impatiens capensis</del>	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laportea canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaerophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

*Anemone nudicaulis**Polygonum puberulum*  
*Rubus parviflorus*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 11

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laportea canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

*Andropogon caudatus*  
*Abies*  
*Andropogon*  
*Cnicus*  
*Smilax*  
*Stellaria*  
*Phytolacca*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 12

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	<del>Galium concinnum</del>	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	<del>Impatiens capensis</del>	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laporteia canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

*Marrubium*  
*Athyrium*  
 large spp. *leaved*  
*Polygon. pubesc*  
*Arabis nud*  
*Symphoricarpon*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 13

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus abortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laportea canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaeiophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

*Allypium*  
*Trollius*  
*Miananthus*

*Hystrix pat*  
*Aralia nudicaulis*  
*Stachys hispida*  
*Rubus parviflorus*  
*Symphoricarpos*  
*Urtica*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
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:

*Ardia* and  
*Sargassum*  
*Cyperus*

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

*Symphoricarpos*  
*elm scullus*  
*Mentha*

~~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

*Aster pinnatus*  
*long 6 pp*  
*leaved comp*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 15

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

Additional species:

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

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

*Rhus*  
*vermifolia*

*Dryopteris cristata*  
*Aster lateriflorus*  
*Sonchum oleraceum*  
*Polypodium*

*Smilax herb.*  
*Rubus pubescens*  
*Milium effusum*  
*M. canthium*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 16

Acorus calamus	Cornus stolonifera	Osmorhiza <del>longistylis</del> <i>claytonii</i>
Alisma subcordatum	Cryptotaenia canadensis	Osmunda regalis
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	<del>Galium concinnum</del>	Polygonum sagittatum
Asarum canadense	Galium obtusum	<del>Ranunculus arbortivus</del>
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	<del>Impatiens capensis</del>	<del>Sambucus canadensis</del>
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	<del>Laportea canadensis</del>	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	<del>Thalictrum dioicum</del>
Chaerophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

*Thalictrum**Symphoricarpos**Aster lateriflorus**Polygonatum**Althya ang.**Hypoxis patula**Aster paniculatus**Mianthemum**Rubus pubescens*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
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

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

*claytonii*  
 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:

~~Melica~~  
 Rubus  
 Sangre de  
 Rubus pubescens

Lactuca coll



## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
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  
 Chaerophyllum procumbens  
 Chelone glabra  
 Cicuta maculata  
 Clematis virginiana  
 Cornus obliqua

Additional species:

*Arctia and*

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

*Athyrium angustum*  
*Rubus pubescens*  
*Mniotagma*  
*Polyg. pubescens*

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

*Prunus americana*  
*Viola cucullata*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
Quadrat No. 19

Acorus calamus	Cornus stolonifera	Osmorhiza longistylis
Alisma subcordatum	Cryptotaenia canadensis	Osmunda <del>regalis</del> <i>claytoni</i>
Amorpha fruticosa	Echinocystis lobata	Parthenocissus inserta
Anemone canadensis	Ellisia nyctelea	Phlox divaricata
Anemone virginiana	Elymus virginicus	Physostegia virginiana
Angelica atropurpurea	Epilobium palustris	Poa palustris
Arisaema atrorubens	Galium aparine	Polygonatum canaliculatum
Arisaema dracontium	Galium concinnum	Polygonum sagittatum
Asarum canadense	Galium obtusum	Ranunculus arbortivus
Asclepias incarnata	Galium tinctorium	Ranunculus septentrionalis
Bidens coronata	Geranium maculatum	Rhus radicans
Bidens vulgata	Geum canadense	Rorippa islandica
Caltha palustris	Glyceria nervata	Rudbeckia laciniata
Campanula americana	Helenium autumnale	Rumex verticillatus
Carex alopecoidea	Hypericum pyramidatum	Salix amygdaloides
Carex crinita	Ilex verticillata	Salix longifolia
Carex grayii	Impatiens capensis	Sambucus canadensis
Carex intumescens	Iris virginica	Sanicula gregaria
Carex lupulina	Juncus tenuis	Silphium perfoliatum
Carex muskingumensis	Laportea canadensis	Sium suave
Carex normalis	Leersia oryzoides	Smilax ecirrhata
Carex tribuloides	Lippia lanceolata	Smilax herbacea
Carex typhina	Lobelia cardinalis	Smilax hispida
Carex vesicaria	Lycopus americana	Stachys palustris
Carex vulpinoidea	Lycopus uniflorus	Teucrium canadense
Cassia marilandica	Lysimachia ciliata	Thalictrum dasycarpum
Cephalanthus occidentalis	Menispermum canadense	Thalictrum dioicum
Chaetophyllum procumbens	Mertensia virginica	Tovara virginiana
Chelone glabra	Mimulus ringens	Viburnum lentago
Cicuta maculata	Muhlenbergia sp.	Viola cucullata
Clematis virginiana	Napaea dioica	Vitis riparia
Cornus obliqua	Onoclea sensibilis	Xanthoxylum americanum

Additional species:

*Geum canadense*  
*Bromus setigerrimus*

## HERB FREQUENCY

## FLOOD-PLAIN HARDWOODS

Stand No. 4056  
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  
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 <sup>claytonii</sup> 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:

*Aralia nud.*  
*Symphoricarpos*  
*Athyrium*

*Polygonatum puber.*  
*Maurandia*  
*Sanguinaria*

*Prunus serotina*