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## **Site 4081: Menchalville, Manitowoc County, Township 20N, Range 22E, Section 16. 1953-07-29**

[s.l.]: [s.n.], 1953-07-29

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## STAND RECORD

## FORESTS

Stand No. 4081

Name: Menchalville

Locality:

SE:NE

County: Manitowoc

T: 20N R: 22E Sec: 16

Date: July 29, 1953

Observers: Ware, Anderson

Size of Stand: 20A

Size of Area Sampled: 10A

Forest Type: Swamp hardwoods &amp; conifers

Soil Type:

Topography: Low, flat with drainage depressions

Slope:

Directions

Condition of Stand:

Good though selectively cut many years ago.  
 Very large white cedar & perhaps beech stumps present.

Open Grown Trees:

85% Canopy:

Stumps:

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

Soil Data:

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

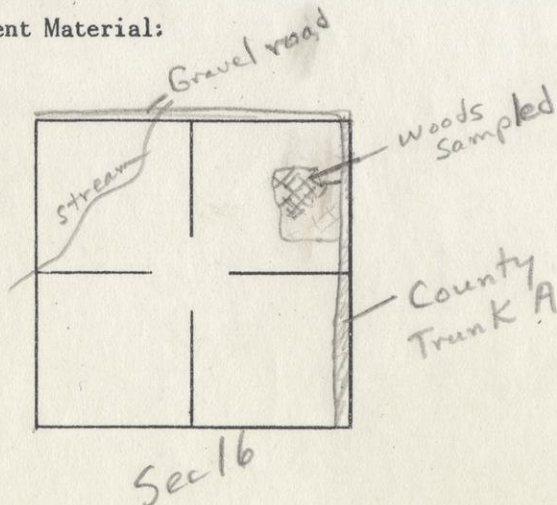
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

|                |                               |
|----------------|-------------------------------|
| A <sub>0</sub> | little or none; snails active |
| A <sub>1</sub> | 4-6 inches; very black        |
| A <sub>2</sub> | 4-6 inches crumbly black clay |
| B              | black clay                    |

Parent Material:

Map:



| STATION NO.                   | 1      | 2          | 3        | 4        | 5         | 6   | 7   | 8  | 9        | 10  |
|-------------------------------|--------|------------|----------|----------|-----------|-----|-----|----|----------|-----|
| <i>rubrum</i><br>Acer negundo | 90     | 355<br>720 | 2        | 2        |           | 1   |     | 80 | 1        |     |
| A. saccharinum                |        |            |          |          |           |     |     |    |          |     |
| A. saccharum                  |        |            |          |          |           |     |     |    |          |     |
| Betula nigra                  |        |            |          |          |           |     |     |    |          |     |
| Carya cordiformis             |        |            |          |          |           |     |     |    |          |     |
| Celtis occident.              |        |            |          |          |           |     |     |    |          |     |
| Crataegus sp.                 |        |            |          |          |           |     |     |    |          |     |
| Fraxinus americ.              |        |            |          |          |           |     |     |    |          |     |
| F. nigra                      | 30     |            | 90<br>75 | 55<br>75 | 190<br>95 | 4   |     |    |          |     |
| F. pensylvanica               |        |            |          |          |           |     |     |    |          | 135 |
| Gleditsia triacan.            |        |            |          |          |           |     |     |    |          |     |
| Gymnocladus dioica            |        |            |          |          |           |     |     |    |          |     |
| Juglans cinerea               |        |            |          |          |           |     |     |    |          |     |
| Platanus occident.            |        |            |          |          |           |     |     |    |          |     |
| Populus deltoides             |        |            |          |          |           |     |     |    |          |     |
| P. tremuloides                |        |            |          |          |           |     |     |    |          |     |
| Prunus serotina               |        |            |          |          |           |     |     |    |          |     |
| Quercus bicolor               |        |            |          |          |           |     |     |    |          |     |
| Q. rubra                      |        |            |          |          |           |     |     |    |          |     |
| Robinia pseudo.               |        |            |          |          |           |     |     |    |          |     |
| Salix nigra                   |        |            |          |          |           |     |     |    |          |     |
| Tilia americana               |        |            |          |          |           |     | 900 | 2  |          | 40  |
| Ulmus americana               | 1      | 2          | 1        |          |           | 640 |     |    | 35<br>65 | 2   |
| U. rubra                      |        |            |          |          |           |     |     |    |          |     |
| <i>hemlock</i>                |        |            |          |          |           | 100 | 1   | 40 | 1        | 1   |
| <i>Thuja</i>                  |        |            |          |          |           |     | 1   |    |          | 1   |
| <i>Yell bark</i>              |        |            |          |          |           |     | 60  |    |          |     |
| Distance                      | 18 1/2 | 11         | 21       | 15       | 21        | 8   | 21  | 16 | 13       | 18  |

*carpinus*

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Data Form No. 39  
POINT RECORD TREES

Plant Ecology Research  
FLOOD-PLAIN HARDWOODS

Univ. of Wisconsin  
Stand No. 4081

| STATION NO.               | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <i>Acer negundo</i>       |     |     |     | 120 | 35  |     |     |     | 220 |     |
| <i>A. saccharinum</i>     |     |     |     |     |     |     |     |     |     |     |
| <i>A. saccharum</i>       |     |     | 20  |     |     | 50  |     |     |     | 120 |
| <i>Betula nigra</i>       |     |     |     |     |     |     |     |     |     |     |
| <i>Carya cordiformis</i>  |     |     |     |     |     |     |     |     |     |     |
| <i>Celtis occident.</i>   |     |     |     |     |     |     |     |     |     |     |
| <i>Crataegus sp.</i>      |     |     |     |     |     |     |     |     |     |     |
| <i>Fraxinus americ.</i>   |     |     |     |     |     |     |     |     |     |     |
| <i>F. nigra</i>           | 80  | 2   |     | 100 |     |     |     |     | 2   |     |
| <i>F. pensylvanica</i>    |     |     |     |     |     |     |     |     |     |     |
| <i>Gleditsia triacan.</i> |     |     |     |     |     |     |     |     |     |     |
| <i>Gymnocladus dioica</i> |     |     |     |     |     |     |     |     |     |     |
| <i>Juglans cinerea</i>    |     |     |     |     |     | 190 |     | 110 |     |     |
| <i>Platanus occident.</i> |     |     |     |     |     |     |     |     |     |     |
| <i>Populus deltoides</i>  |     |     |     |     |     |     |     |     |     |     |
| <i>P. tremuloides</i>     |     |     |     |     |     |     |     |     |     |     |
| <i>Prunus serotina</i>    |     |     |     |     |     |     |     |     |     |     |
| <i>Quercus bicolor</i>    |     |     |     |     |     |     |     |     |     |     |
| <i>Q. rubra</i>           |     |     |     |     |     |     |     |     |     |     |
| <i>Robinia pseudo.</i>    |     |     |     |     |     |     |     |     |     |     |
| <i>Salix nigra</i>        |     |     |     |     |     |     |     |     |     |     |
| <i>Tilia americana</i>    |     |     |     |     |     |     |     |     |     |     |
| <i>Ulmus americana</i>    |     | 190 |     |     |     |     |     |     |     |     |
| <i>U. rubra</i>           |     |     |     |     |     |     |     |     |     |     |
| <i>hemlock</i>            | 160 | 180 | 3   | 1   | 4   |     | 240 | 220 | 1   | 3   |
| <i>Thuja</i>              |     |     | 140 | 2   |     | 4   | 50  |     | 1   | 35  |
| <i>beech</i>              |     |     |     |     | 270 | 40  |     |     |     |     |
| Distance                  | 19  | 22  | 13  | 14  | 20  | 16  | 21  | 20  | 17  | 12  |

Corpus

②

+ Hemerocallis

| STATION NO.                         | 1  | 2   | 3   | 4   | 5   | 6          | 7  | 8   | 9   | 10 |
|-------------------------------------|----|-----|-----|-----|-----|------------|----|-----|-----|----|
| Acer <sup>rubrum</sup> negundo      |    |     |     |     |     | 160<br>450 |    |     |     | 2  |
| A. saccharinum                      |    |     |     |     |     |            |    |     |     |    |
| A. saccharum                        |    |     |     |     |     |            |    |     |     |    |
| Betula nigra                        |    |     |     |     |     |            |    |     |     |    |
| Carya cordiformis                   |    |     |     |     |     |            |    |     |     |    |
| Celtis occident.                    |    |     |     |     |     |            |    |     |     |    |
| Crataegus sp.                       |    |     |     |     |     |            |    |     |     |    |
| Fraxinus americ.                    |    |     |     | 120 |     |            |    |     |     |    |
| F. nigra                            | 12 | 2   | 4   | 2   |     |            |    |     |     |    |
| F. pensylvanica                     |    |     |     |     |     |            |    |     |     |    |
| Gleditsia triacan.                  |    |     |     |     |     |            |    |     |     |    |
| Gymnocladus dioica                  |    |     |     |     |     |            |    |     |     |    |
| <sup>beech</sup><br>Juglans cinerea |    |     |     |     |     |            |    | 270 |     |    |
| Platanus occident.                  |    |     |     |     |     |            |    |     |     |    |
| Populus deltoides                   |    |     |     |     |     |            |    |     |     |    |
| P. tremuloides                      |    |     |     |     |     |            |    |     |     |    |
| Prunus serotina                     |    |     |     |     |     |            |    |     |     |    |
| Quercus bicolor                     |    |     |     |     |     |            |    |     |     |    |
| Q. rubra                            |    |     |     |     |     |            |    |     |     |    |
| Robinia pseudo.                     |    |     |     |     |     |            |    |     |     |    |
| Salix nigra                         |    |     |     |     |     |            |    |     |     |    |
| Tilia americana                     |    | 2   |     |     |     |            | 35 | 1   |     |    |
| Ulmus americana                     | 3  | 580 | 940 | 400 | 160 |            |    |     | 110 |    |
| U. rubra                            |    |     | 330 | 2   | 130 |            |    |     | 160 |    |
| <sup>Thuja</sup>                    | 65 | 1   |     |     |     |            | 2  | 2   | 1   |    |
| <sup>yell birch</sup>               |    |     |     |     |     |            | 12 | 1   | 25  |    |
| <sup>hemlock</sup>                  |    |     |     |     |     |            |    | 330 | 120 |    |
| Distance                            | 11 | 20  | 27  | 19  | 16  | 18         | 18 | 20  | 21  | 18 |

10 1/2 ft in circ

| STATION NO.               | 1  | 2   | 3   | 4    | 5    | 6  | 7  | 8    | 9   | 10 |
|---------------------------|----|-----|-----|------|------|----|----|------|-----|----|
| <i>Acer negundo</i>       | 40 |     |     |      | 170  | 2  | 30 |      |     | 40 |
| <i>A. saccharinum</i>     |    |     |     |      |      |    |    |      |     | 2  |
| <i>A. saccharum</i>       |    |     |     |      |      |    |    |      |     |    |
| <i>Betula nigra</i>       |    |     |     |      |      |    |    |      |     |    |
| <i>Carya cordiformis</i>  |    |     |     |      |      |    |    |      |     |    |
| <i>Celtis occident.</i>   |    |     |     |      |      |    |    |      |     |    |
| <i>Crataegus sp.</i>      |    |     |     |      |      |    |    |      |     |    |
| <i>Fraxinus americ.</i>   |    |     |     |      |      |    |    |      |     |    |
| <i>F. nigra</i>           |    | 180 | 130 | 2330 |      | 15 |    | 140  | 4   | 1  |
| <i>F. pensylvanica</i>    |    |     |     |      |      |    | 40 | 1    |     |    |
| <i>Gleditsia triacan.</i> |    |     |     |      |      |    |    |      |     |    |
| <i>Gymnocladus dioica</i> |    |     |     |      |      |    |    |      |     |    |
| <i>Juglans cinerea</i>    |    |     |     |      |      |    |    |      | 270 |    |
| <i>Platanus occident.</i> |    |     |     |      |      |    |    |      |     |    |
| <i>Populus deltoides</i>  |    |     |     |      |      |    |    |      |     |    |
| <i>P. tremuloides</i>     |    |     |     |      |      |    |    |      |     |    |
| <i>Prunus serotina</i>    |    |     |     |      |      |    |    |      |     |    |
| <i>Quercus bicolor</i>    |    |     |     |      |      |    |    |      |     |    |
| <i>Q. rubra</i>           |    |     |     |      |      |    |    |      |     |    |
| <i>Robinia pseudo.</i>    |    |     |     |      |      |    |    |      |     |    |
| <i>Salix nigra</i>        |    |     |     |      |      |    |    |      |     |    |
| <i>Tilia americana</i>    |    |     |     |      |      |    |    |      |     |    |
| <i>Ulmus americana</i>    |    | 80  | 150 | 1    |      | 90 | 1  | 2270 |     | 40 |
| <i>U. rubra</i>           |    |     |     |      |      |    |    |      |     |    |
| <i>Thuja</i>              | 50 | 4   | 3   | 130  | 2    | 2  | 3  |      |     | 2  |
| <i>Larix</i>              |    |     |     |      | 2150 |    |    |      | 330 | 2  |
| <i>Yellow Birch</i>       |    |     |     |      |      |    |    |      |     |    |
| Distance                  | 13 | 22  | 12  | 12   | 17   | 9  | 15 | 15   | 19  | 23 |

(5)

Presence or Frequency  
(Common species only)

## FLOOD-PLAIN HARDWOODS

Stand No. 4081  
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:

Carex projecta  
Carex gracillima  
Carex bromoides

Mitella diphylla

Saxifraga pennsylvanica

Dryopteris Linnacana

Dryopteris cristata

Pteris

Athyrium angustatum

Viola canadensis

Presence List  
(Uncommon species)

## FLOOD-PLAIN HARDWOODS

Stand No. 4081  
Quadrat No.  
PRESENCE

Acorus calamus  
Actaea pachypoda  
Actaea rubra  
Agastache scrophulariaefolia  
Agropyron trachycaulum  
Alisma subcordatum  
Alnus incana  
Alnus rugosa  
Ambrosia trifida  
Amorpha fruticosa  
Anemone quinquefolia  
Anemonella thalictroides  
Angelica atropurpurea  
Apios americana  
Aralia hispida  
Aralia racemosa  
Asclepias incarnata  
Aster cordifolius  
Aster sagittifolius  
Aster shortii  
Bidens connata  
Bidens coronata  
Bidens frondosa  
Bidens vulgata  
Botrychium virginianum  
Bromus purgans  
Calamagrostis canadensis  
Carex albursina  
Carex alopecoidea  
Carex convoluta  
Carex cristata  
Carex grisea  
Carex laxiflora  
Carex molesta  
Carex muskingumensis  
Carex pennsylvanica  
Carex projecta  
Carex stipata  
Carex tribuloides  
Carex typhina  
Carex vesicaria  
Cassia marilandica  
Caulophyllum 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 palustris  
Equisetum arvense  
Equisetum hyemale  
Erigeron philadelphicus  
Erigeron pulchellus  
Erythronium albidum  
Eupatorium perfoliatum  
Eupatorium purpureum  
Eupatorium rugosum  
Euonymus atropurpureus  
Festuca obtusa  
Fragaria vesca  
Galium tinctorium  
Gerardia gradiflora  
Geum strictum  
Hackelia virginica  
Helenium autumnale  
Helianthus strumosus  
Hepatica acutiloba  
Heracleum maximum  
Hydrophyllum appendiculatum  
Hypericum ascyron  
Hypericum pyramidatum  
Hystrix patula  
Impatiens pallida  
Iris versicolor  
Isopyrum 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  
Symlocarpus foetida  
Trientalis borealis  
Trillium grandiflorum  
Trillium recurvatum  
Triosteum perfoliatum  
Urtica dioica  
Uvularia grandiflora  
Vernonia fasciculata  
Viola renifolia  
Zizia aurea

Additional Species:

Presence or Frequency  
(Common species only)

## FLOOD-PLAIN HARDWOODS

Stand No. 4081  
Quadrat No. 1-5

Adiantum pedatum  
Agrimonia gryposepala  
Allium canadense  
Allium tricoccum  
Amphicarpa tracteata  
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 2  
Circaea quadrisulcata *alpa 4*  
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 1,2,3,4,5  
Iris virginica  
Lactuca biennis  
Laportea canadensis  
Leersia oryzoides  
Lobelia cardinalis  
Lycopus americanus  
Lycopus uniflorus 1  
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 2  
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 4,5  
Stachys palustris 1  
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 1,5  
Zanthoxylum americanum

## Additional species:

*Thalictrum*

elm 1,2,5

*Bidens frondosa* 1

*Pilea* 1,4

*Urtica* 2

green ash 2,5

*Viola canadensis* 2

*Maranthum* 2

*Carex retrosa* 1,3

*Hackberry seedling* 3,5

*Dryopteris* 4

soft-red maple 5

*Lysimachia thyrsiflora* 5

*Cornus stolonifera* 5 cold

Presence or Frequency  
(Common species only)

## FLOOD-PLAIN HARDWOODS

Stand No. 4081  
Quadrat No. 6-10

Adiantum pedatum  
Agrimonia gryposepala  
Allium canadense  
Allium tricoccum  
Amphicarpa bracteata  
Anemone canadensis  
Anemone virginiana  
Aralia nudicaulis  
Arenaria lateriflora  
Arisaema atrorubens  
Arisaema dracontium  
Asarum canadense 5  
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 4  
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 5  
Geum canadense  
Glyceria striata 3,4  
Hydrophyllum virginianum  
Ilex verticillata  
Impatiens capensis 14  
Iris virginica  
Lactuca biennis  
Laportea canadensis 2,35  
Leersia oryzoides  
Lobelia cardinalis  
Lycopus americanus  
Lycopus uniflorus  
Lysimachia ciliata  
Lysimachia nummularia  
Menispermum canadense  
Onoclea sensibilis 2  
Osmorhiza claytoni  
Osmorhiza longistylis  
Parthenocissus inserta  
Phlox divaricata  
Phryma leptostachya  
Physostegia virginiana  
Podophyllum peltatum  
Polemonium reptans

Polygonatum ~~canaliculatum~~ 5  
Prenanthes alba  
Ranunculus abortivus  
Ranunculus septentrionalis  
Rhus radicans  
Ribes americanum 2,4  
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 1,2,3  
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 2  
Zanthoxylum americanum

Additional species:

*Carex retrofracta* 1  
black oak 1  
green ash 1  
Pilea 1 2 3  
elm 1 2 3  
Pinna 3  
arund 1 4

*Mitella diphylla* 5 ?  
small *S. virginica* 10.

Presence or Frequency  
(Common species only)

## FLOOD-PLAIN HARDWOODS

Stand No. 4081  
Quadrat No. 11-15

Adiantum pedatum ✓  
Agrimonia gryposepala  
Allium canadense  
Allium tricoccum  
Amphicarpa bracteata  
Anemone canadensis  
Anemone virginiana  
Aralia nudicaulis 3  
Arenaria lateriflora  
Arisaema atrorubens 3  
Arisaema dracontium  
Asarum canadense  
Aster lateriflorus  
Aster simplex  
Athyrium filix-femina  
Athyrium thelypteroides  
Boehmeria cylindrica 5  
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 235  
Geum canadense  
Glyceria striata 5  
Hydrophyllum virginianum  
Ilex verticillata  
Impatiens capensis 123  
Iris virginica  
Lactuca biennis  
Laportea canadensis 134  
Leersia oryzoides  
Lobelia cardinalis  
Lycopus americanus  
Lycopus uniflorus  
Lysimachia ciliata  
Lysimachia nummularia  
Menispermum canadense  
Onoclea sensibilis 3  
Osmorhiza claytoni 2  
Osmorhiza longistylis  
Parthenocissus inserta 3  
Phlox divaricata  
Phryma leptostachya  
Physostegia virginiana  
Podophyllum peltatum  
Polemonium reptans

Polygonatum canaliculatum  
Prenanthes alba  
Ranunculus abortivus  
Ranunculus septentrionalis  
Rhus radicans 4  
Ribes americanum 5  
Ribes cynosbati 2  
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:

Rubus dew 13  
Athyrium thelypteroides 1  
elm 12345

Maianthemum 1235

Viola conspersa 1234

Dryopteris spinulosa 1

Polygonatum pub 2  
Uvularia grand 2  
Dryopteris spin 235

black ash 345

green ash 34

orange maple 4

Lysimachia thyrisiflora 5

Dalium truct 5  
Mitella diphylla 5  
Carex retrorsa 5

Presence or Frequency  
(Common species only)

## FLOOD-PLAIN HARDWOODS

Stand No. 4081  
Quadrat No.  
16-20

Adiantum pedatum  
Agrimonia grypsosepala  
Allium canadense  
Allium tricoccum  
Amphicarpa bracteata  
Anemone canadensis  
Anemone virginiana  
Aralia nudicaulis  
Arenaria lateriflora  
Arisaema atrorubens 1245  
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 3  
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 3  
Hydrophyllum virginianum  
Ilex verticillata  
Impatiens capensis 7  
Iris virginica  
Lactuca biennis  
Laportea canadensis 2345  
Leersia oryzoides  
Lobelia cardinalis  
Lycopus americanus  
Lycopus uniflorus  
Lysimachia ciliata  
Lysimachia nummularia  
Menispermum canadense  
Onoclea sensibilis  
Osmorhiza claytoni 1  
Osmorhiza longistylis  
Parthenocissus inserta 4  
Phlox divaricata  
Phryma leptostachya  
Physostegia virginiana  
Podophyllum peltatum  
Polemonium reptans

Polygonatum canaliculatum  
Prenanthes alba  
Ranunculus arbortivus  
Ranunculus septentrionalis  
Rhus radicans 4  
Ribes americanum  
Ribes cynosbati  
Ribes missouriense  
Rorippa islandica  
Rudbeckia laciniata  
Rumex verticillatus  
Sambucus canadensis  
Sanguinaria canadensis  
Sanicula gregaria  
Smilacina racemosa  
Smilacina stellata 24  
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:

Mitella diphylla 1

elm 1 ✓ 345

Viola conspersa 1, 25

red-soft maple 1

Smilacina lat 2

Bidens triel. 2 3

Solidago gigantea 1

green ash 2

Carex retrosa 3

Polygonatum 3

Equisetum arvense 3

black ash 35

Rubus idw 4

Dryopteris spinulosa 4

Festuca obtusa 5