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WI Natural Heritage Inventory Site Summary Form

Office use only:	1915
Access Site ID	
Biotics Site ID	

Observer(s): Andy Clark Date: July 12, 13, 2011
 Surveysite and Managed Area: Schuchardt Property
 Land Manager: Schuchardt Property Contact Info: _____
 Town Range Section(Quarter/Quarter): T15NR23E5 21SW5E, 5E5W; 28N 1/2
 County: Sheboygan
 Access/Directions: Hwy 28, Hwy TA

Site description: Old oxbow of the Sheboygan River w/ a narrow loop of ditched wetlands. The outer edges of the loop are fairly steep slopes w/ disturbed oak forest. The inner portion has areas of alfalfa-hay fields, shrubby-grassy oldfields, ditched wetlands, & disturbed oak forest. South of the railroad tracks is mostly Ag land w/ buildings-thicket woods, sections of a stream w/ Cottonwood-box elder & Ash-box elder forest.

Site Significance: one of the only undeveloped tracts of any size in Sheboygan

Management considerations: Buckthorn, honeysuckle & garlic mustard are a problem in the forests, ~~especially~~ Buckthorn is especially bad. The wetlands have areas of reed/panic grass but it hasn't completely taken over. The alfalfa-hay fields could be planted as prairie restorations

Land-use of site & surrounding landscape: surrounded by development on the western side of the city of Sheboygan. A rail road passes through the southern portion.

Community type(s): southern dry mesic forest, cattail marsh, emergent aquatic, southern sedge meadow, Floodplain forest, stream-slow, warm, hard, shrubby-grassy oldfield, Reed canopy grass meadow.

Rare species, SGCN species, or unusual features present: Former oxbow of the Sheboygan river

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WI Natural Heritage Inventory Natural Community

Office Use Only:
Com ID 4211
EO ID _____

Observer(s): AC Clark Date: July 12, 2011
 Surveysite and Managed Area: Schuchardt Property
 Community Type: Southern Dry Mesic Forest
 Town Range Section(Quarter/Quarter): T15NR23E321SWSE County: Sherburne
 Community Acreage: _____ Confidence extent: Y N
 GPS coordinates or file information (specify format, Degree Minutes and Seconds preferred) Datum: NAD27 WGS 84 WTM 83/91
 Waypoint #s: 142 Photo #s: 2014North 2015North
 Access: Highway TA

Community description: Fairly steep slopes, formerly grazed. Canopy 20% 16-24" dbh red oak w/ white oak, burr oak, some paper birch. Subcanopy 40% paper birch w/ white oak, red oak. Sapling layer 41% paper birch + white oak, some red oak. Shrub layer, less than 2' tall common buckthorn w/ scattered tall shrubs, 60-80% coverage. Herb layer 25%, mostly garlic mustard w/ some orcharders night shade, tall goldenrod, domes rockat.

Characteristic spp: Quercus rubra, Q. macrocarpa, Q. alba, Rhamnus cathartica, Alliaria petiolata, Solidago altissima, Hesperis matronalis, Circaea quadrisulcata

Please list the communities' (top 3) dominant species for the appropriate cover class and for each Stratum below:

Stratum	% Cover Class code							Dominant Species
	1	2	3	4	5	6	7	
Canopy	<1	1-5	6-25	26-50	(51-75)	76-95	96-100	<u>Quercus rubra³⁵, Q. alba²⁵, Q. macrocarpa¹⁰</u>
Subcanopy	<1	1-5	6-25	(26-50)	51-75	76-95	96-100	<u>betula papyrifera²⁵, Q. rubra¹⁰, Fraxinus americana¹⁰</u>
Shrub/Sapling	<1	1-5	6-25	26-50	51-75	76-95	(96-100)	<u>B. papyrifera²⁵, F. americana²⁰, Rhamnus cathartica²⁰</u>
Herb	<1	1-5	(6-25)	26-50	51-75	76-95	96-100	<u>Alliaria petiolata²⁰, Circaea quadrisulcata⁵</u>
Bryophyte/Lichen	(<1)	1-5	6-25	26-50	51-75	76-95	96-100	<u>mosses</u>
Bare Ground	<1	1-5	6-25	26-50	(51-75)	76-95	96-100	<u>leaf litter, exposed soil</u>

Invasive spp: Rhamnus cathartica, Alliaria petiolata, Hesperis matronalis, Lonicera x bella, L. morrowii, Berberis thunbergii, Prunum minus, Taraxacum officinale, Convolvulus majoralis

Evidence of disturbance/threats: Grazed in the past. Fairly recent construction on Highway TA has allowed crown vetch to invade. Common buckthorn + garlic mustard are major problems.

Restoration Potential: Buckthorn needs to be removed + garlic mustard dealt with
L. morrowii

Survey/Inventory/Management needs: Forest should be inventoried for spring ephemerals

Rare species, SGCN species, or unusual features present: Degraded oak forest

Aspect	Slope	Hydrologic Regime	Surface Soils
___ NW	___ 0%	___ Inundated (Hydric)	___ Sand
___ N	___ 1-10%	___ Intermittently Flooded	___ Loamy sand
___ NE	<u>X</u> 10-25%	___ Saturated (Wet-mesic)	___ Sandy loam
___ E	___ 25-50%	___ Moist (Mesic)	___ Loam
___ S	___ 50-100%	<u>X</u> Dry-mesic	___ Silt loam
___ SE	___ variable	___ Dry (Xeric)	___ Silt
<u>X</u> W		___ Variable	<u>X</u> Clay loam
<u>X</u> SW			___ Silty clay
___ Level			
___ variable			

Summary Rank of the Community Condition, Context, Quality and Viability

Rank Definition:	A- Excellent	B - Good	C Marginal	D - Poor
EO Condition & Quality (e.g. Composition, natural and human caused disturbances, exotics & community recovery potential)	A	B	C	D
EO Size	A	B	C	D
EO Context (Quality of biotic & abiotic factors/processes in surrounding landscape)	A	B	C	D
EO Rank (Summary of all factors listed above)	A	B	C	D
Comments				

Addendum or additional information regarding the site: (e.g. may include BBS, plant or animal species lists, recommendations for additional inventory work etc. ****For addenda, please note before each portion which field you are continuing.)

SOUTHERN UPLAND FOREST Com ID: 4211

Scientific Areas Preservation Council
 Department of Natural Resources
 William Tans, Robert Read
 1976

SOUTHERN UPLAND FOREST PLANT SPECIES LIST

July 12, 13, 2011, AC

Dry-mesic and Mesic Forests

T 15N R 23E S 21SW SE, SE, SW, 28N 1/2

LEGEND - a rating of approximate frequency

- A - Abundant, the dominant vegetation
- C - Common, locally abundant or frequent
- O - Occasional, infrequently encountered
- R - Rare, very few individuals seen

Name of Area: Schuchardt Property
 T _____ R _____ Section _____
 County: Shelby Co. TN Size _____

HERBACEOUS PLANTS

<p><i>Actaea alba</i> <i>Actaea rubra</i> <i>Adiantum pedatum</i> <i>Agastache scrophulariaefolia</i> <i>Agrimonia gryposepala</i> <i>Agrimonia pubescens</i> <i>Alliaria officinalis</i> <i>Allium canadense</i> <i>Allium tricoccum</i> <i>Anemone quinquefolia</i> <i>Anemone virginiana</i> <i>Anemone thalictroides</i> <i>Aplectrum hyemale</i> <i>Aquilegia canadensis</i> <i>Arabis canadensis</i> <i>Arabis laevigata</i> <i>Aralia nudicaulis</i> <i>Aralia racemosa</i> <i>Arenaria lateriflora</i> <i>Arisaema triphyllum</i> <i>Asarum canadense</i> <i>Asclepias exaltata</i> <i>Aster lateriflorus</i> <i>Aster macrophyllus</i> <i>Aster prenanthoides</i> <i>Aster sagittifolius</i> <i>Aster shortii</i> <i>Athyrium felix-femina</i> <i>Athyrium thelypteroides</i> <i>Blephala hirsuta</i> <i>Botrychium virginianum</i> <i>Brachyleytrum erectum</i> <i>Bromus purgans</i> <i>Campanula americana</i> <i>Cardamine bulbosa</i> <i>Cardamine douglassii</i> <i>Carex albursina</i> <i>Carex amphibola</i> <i>Carex blanda</i> <i>Carex cephaloidea</i> <i>Carex cephalophora</i> <i>Carex deweyana</i> <i>Carex digitalis</i> <i>Carex gracillima</i> <i>Carex hirtifolia</i> <i>Carex hitchcockiana</i> <i>Carex jamesii</i> <i>Carex laxiflora</i> <i>Carex oligocarpa</i> <i>Carex pedunculata</i> <i>Carex pennsylvanica</i> <i>Carex plantaginea</i> <i>Carex rosea</i> <i>Carex sparganioides</i> <i>Carex sprengei</i> <i>Carex woodii</i> <i>Carex tenera</i> <i>Caulophyllum thalictroides</i> <i>Cinna arundinacea</i> <i>Cinna latifolia</i> <i>Circaea quadrilocata</i></p>	<p><i>Cirsium altissimum</i> <i>Claytonia virginiana</i> <i>Conopholis americana</i> <i>Corallorhiza maculata</i> <i>Cryptotaenia canadensis</i> <i>Cypripedium pubescens</i> <i>Cystopteris fragilis</i> <i>Dentaria laciniata</i> <i>Desmodium cuspidatum</i> <i>Desmodium glutinosum</i> <i>Desmodium nudiflorum</i> <i>Dicentra cucullaria</i> <i>Dioscorea villosa</i> <i>Dryopteris goldiana</i> <i>Dryopteris spinulosa</i> <i>Elymus villosus</i> <i>Epifagus virginiana</i> <i>Erythronium albidum</i> <i>Erythronium americanum</i> <i>Eupatorium purpureum</i> <i>Eupatorium rugosum</i> <i>Festuca obtusa</i> <i>Floerkea proserpinacoides</i> <i>Fragaria vesca</i> <i>Fragaria virginiana</i> <i>Galium aparine</i> <i>Galium circaeans</i> <i>Galium concinnum</i> <i>Galium lanceolatum</i> <i>Galium triflorum</i> <i>Geranium maculatum</i> <i>Geum canadense</i> <i>Geum <u>altipicum</u></i> <i>Goodyera pubescens</i> <i>Habenaria viridis</i> <i>Hackelia americana</i> <i>Hackelia virginiana</i> <i>Helianthus decapetalus</i> <i>Helianthus strumosus</i> <i>Hepatica acutiloba</i> <i>Hepatica americana</i> <i>Hydrastis canadensis</i> <i>Hydrophyllum appendiculatum</i> <i>Hydrophyllum virginianum</i> <i>Hystrix patula</i> <i>Impatiens capensis</i> <i>Impatiens pallida</i> <i>Isopyrum bitematum</i> <i>Jeffersonia diphylla</i> <i>Lactuca biennis</i> <i>Lactuca floridana</i> <i>Laportea canadensis</i> <i>Lathyrus ochroleucus</i> <i>Leersia virginica</i> <i>Lithospermum latifolium</i> <i>Luzula acuminata</i> <i>Luzula multiflora</i> <i>Lycopodium clavatum</i> <i>Lycopodium complanatum</i> <i>Lycopodium lucidulum</i></p>	<p><i>Lycodium obscurum</i> <i>Maianthemum canadense</i> <i>Milium effusum</i> <i>Mitella diphylla</i> <i>Monotropa uniflora</i> <i>Orchis spectabilis</i> <i>Oryzopsis racemosa</i> <i>Osmorhiza claytoni</i> <i>Osmorhiza longistylis</i> <i>Osmunda cinnamomea</i> <i>Osmunda claytoniana</i> <i>Panax quinquefolius</i> <i>Panicum latifolium</i> <i>Parietaria pensylvanica</i> <i>Phlox divaricata</i> <i>Phryma leptostachya</i> <i>Podophyllum peltatum</i> <i>Polemonium reptans</i> <i>Polygonatum canaliculatum</i> <i>Polygonatum pubescens</i> <i>Potentilla simplex</i> <i>Prenanthes alba</i> <i>Prunella vulgaris lan.</i> <i>Pyrola elliptica</i> <i>Pyrola rotundifolia</i> <i>Ranunculus abortivus</i> <i>Ranunculus recurvatus</i> <i>Ranunculus septentrionalis</i> <i>Sanguinaria canadensis</i> <i>Sanicula gregaria</i> <i>Sanicula marilandica</i> <i>Sanicula trifoliata</i> <i>Scutellaria ovata vers.</i> <i>Silene stellata</i> <i>Smilacina racemosa</i> <i>Solidago flexicaulis</i> <i>Solidago ulmifolia</i> <i>Solidago <u>altissima</u></i> <i>Streptopus roseus</i> <i>Symplocarpus foetidus</i> <i>Taenidia integerrima</i> <i>Thalictrum dioicum</i> <i>Tovara virginiana</i> <i>Trientalis borealis</i> <i>Trillium cernuum</i> <i>Trillium gleasoni</i> <i>Trillium grandiflorum</i> <i>Trillium nivale</i> <i>Trillium recurvatum</i> <i>Triosteum aurantiacum</i> <i>Triosteum perfoliatum</i> <i>Uvularia grandiflora</i> <i>Uvularia sessilifolia</i> <i>Veronicastrum virginicum</i> <i>Vicia caroliniana</i> <i>Viola conspersa</i> <i>Viola cucullata</i> <i>Viola incognita</i> <i>Viola pubescens</i> <i>Viola sororia</i></p>
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Convolvulus hirsutus *Plantago major* *Phlox* *Phlox stricta* *Aretium* *Taraxacum*
Plantago major *Equisetum arvense* *Dactylis* *Urtica*

Campanula rotundifolia

Symplocarpus
betulus

Symplocarpus

TREES, SHRUBS AND VINES

<i>Acer rubrum</i>	_____	<i>Fraxinus quadrangulata</i>	_____	<i>Rubus alleghaniensis</i>	_____
<i>Acer saccharum</i>	u X _____	<i>Gymnocladus dioica</i>	_____	<i>Rubus occidentalis</i>	_____
<i>Acer spicatum</i>	_____	<i>Hamamelis virginia</i>	_____	<i>Rubus strigosus</i>	u _____
<i>Amelanchier</i>	B _____	<i>Juglans cinerea</i>	_____	<i>Rubus</i>	_____
<i>Aspicarpa bracteata</i>	_____	<i>Juglans nigra</i>	_____	<i>Sambucus canadensis</i>	_____
<i>Betula alleghaniensis</i>	_____	<i>Lonicera dioica</i>	_____	<i>Sambucus pubens</i>	_____
<i>Betula papyrifera</i>	C X _____	<i>Lonicera prolifera</i>	_____	<i>Smilax ecirrhata</i>	_____
<i>Carpinus caroliniana</i>	_____	<i>Menispermum canadense</i>	_____	<i>Smilax hispida</i>	_____
<i>Carya cordiformis</i>	_____	<i>Ostrya virginiana</i>	u _____	<i>Smilax illinoense</i>	_____
<i>Carya ovata</i>	X u _____	<i>Parthenocissus inserta</i>	_____	<i>Smilax lasioneura</i>	_____
<i>Celastris scandens</i>	u _____	<i>Parthenocissus quinquefolia</i>	X u _____	<i>Staphylea trifolia</i>	_____
<i>Celtis occidentalis</i>	_____	<i>Populus grandidentata</i>	_____	<i>Taxus canadensis</i>	_____
<i>Cornus alternifolia</i>	_____	<i>Populus tremuloides</i>	X _____	<i>Tilia americana</i>	u X _____
<i>Cornus racemosa</i>	_____	<i>Prunus serotina</i>	X _____	<i>Tsuga canadensis</i>	_____
<i>Cornus rugosa</i>	_____	<i>Prunus virginiana</i>	X _____	<i>Ulmus americana</i>	_____
<i>Corylus americana</i>	_____	<i>Quercus alba</i>	X _____	<i>Ulmus rubra</i>	_____
<i>Crataegus</i>	X u _____	<i>Quercus macrocarpa</i>	X _____	<i>Ulmus thomasi</i>	_____
<i>Birca palustris</i>	_____	<i>Quercus rubra</i>	X _____	<i>Viburnum acerifolium</i>	_____
<i>Ecnymus atropurpureus</i>	_____	<i>Quercus velutina</i>	_____	<i>Viburnum lentago</i>	C X _____
<i>Lagrus grandifolia</i>	_____	<i>Rhus radicans</i>	u Y _____	<i>Viburnum rafinesquianum</i>	_____
<i>Fraxinus americana</i>	C X _____	<i>Ribes americanum</i>	_____	<i>Vitis aestivalis</i>	C X _____
<i>Fraxinus pennsylvanica</i>	_____	<i>Ribes cynosbati</i>	X _____	<i>Vitis riparia</i>	C X _____
<i>Fraxinus penn. subinteg.</i>	_____	<i>Ribes missouriense</i>	X _____	<i>Xanthoxylum americanum</i>	C X _____

Solanum dulcamara

Rhamnus cathartica

Lonicera xylosteum

ADDITIONAL SPECIES AND COMMENTS:

142 slopes SPA 16-28' Sp, 20, 20 0, 10, 20
 PO Burn 0 PB WASH
 25, 10, 1 10, 0, 0 WD 20, 0, 0 Photos 2014N 2015N
 low 1-2 1/2 ft
 Rhamnus GTR 60-80
 Allia 20 Vib. lentago
 Solidago alt. hesperis
 Cypripedium or convoluta
 Cicada
 2017 North

146 - slope 16-24' PO Burn D Shagbark some sugar
 narrow Rhamnus cathartica tall w/ abundant seedlings
 formerly grazed - not much debris, exposed soil leaf litter
 Lonicera xylosteum
 2017 North

156 - steep ridge along Shagbark River Burn Oak 12-18' Wash
 PI Burn Oak small trees Rhamnus densa tall
 Campanula rot. Solidago juncea Anemone
 Comarostaphylis heterophylla Symplocarpus

Solanum dulcamara

WI Natural Heritage Inventory Natural Community

Office Use Only:
Com_ID 4212
EO_ID _____

Observer(s): AC Clark Date: July 12, 2011
 Surveysite and Managed Area: Schuchardt Property
 Community Type: Southern Sedge Meadow
 Town Range Section(Quarter/Quarter): T15NR23ES215WSE County: Shelby
 Community Acreage: _____ Confidence extent: Y N Shelby
 GPS coordinates or file information (specify format, Degree Minutes and Seconds preferred) Datum: NAD27 WGS 84 WTM 83/91
 Waypoint #s: 143 Photo #s: 2016 west
 Access: Hwy 7A

Community description: Sedge meadow in mosaic of cattail marsh, reed canopy grass meadow, & sedge meadow. Herb layer
some, reedgrass, cattail, bluejoint, reed canopy grass w/ joe pye weed, jewelweed, some
wool fruited sedge.

Characteristic spp: Carex lacustris Typha angustifolia, Calamagrostis canadensis,
Phalaris arundinacea, Eupatorium maculatum, Sphagnum capensis, Carex lasiocarpa

Please list the communities' (top 3) dominant species for the appropriate cover class and for each Stratum below:

Stratum	% Cover Class code							Dominant Species
	1	2	3	4	5	6	7	
Canopy	<1	1-5	6-25	26-50	51-75	76-95	96-100	
Subcanopy	<1	1-5	6-25	26-50	51-75	76-95	96-100	
Shrub/Sapling	<1	1-5	6-25	26-50	51-75	76-95	96-100	
Herb	<1	1-5	6-25	26-50	51-75	76-95	96-100	<u>Carex lacustris Typha angustifolia, Calamagrostis canadensis</u>
Bryophyte/Lichen	<u>1</u>	1-5	6-25	26-50	51-75	76-95	96-100	<u>mosses</u>
Bare Ground	<1	1-5	6-25	26-50	51-75	76-95	96-100	<u>muck, water</u>

Invasive spp: Rhynchospora alba, Conium maculatum, Ranunculus acris, Phleum pratense
Cirsium arvense, Myosotis scorpioides, Phleum pratense

Evidence of disturbance/threats: ditched, reed canopy grass patches

Restoration Potential: reed canopy grass is present, forming scattered dense patches but it
hasn't totally taken over

Survey/Inventory/Management needs: the meadows: could use a thorough inventory

Rare species, SGCN species, or unusual features present: sedge meadow w/ cattail marsh in former
oxbow of the Shelby River

Aspect	Slope	Hydrologic Regime	Surface Soils
<u>X</u> NW	<u>X</u> 0%	<u>X</u> Inundated (Hydric)	Sand
N	1-10%	Intermittently Flooded	Loamy sand
NE	10-25%	Saturated (Wet-mesic)	Sandy loam
E	25-50%	Moist (Mesic)	Loam
<u>X</u> S	50-100%	Dry-mesic	Silt loam
<u>X</u> SE	variable	Dry (Xeric)	Silt
W		Variable	Clay loam
SW			<u>X</u> Silty clay/muck
Level			
variable			

Form continues on the back. Make any additional comments for any field where you need more room in the addendum space.

Summary Rank of the Community Condition, Context, Quality and Viability

Rank Definition:	A- Excellent	B - Good	C Marginal	D - Poor
EO Condition & Quality (e.g. Composition, natural and human caused disturbances, exotics & community recovery potential)				A <u>B</u> C D
EO Size				A <u>B</u> C D
EO Context (Quality of biotic & abiotic factors/processes in surrounding landscape)				A <u>B</u> C D
EO Rank (Summary of all factors listed above)				A <u>B</u> C D
Comments	_____			

Addendum or additional information regarding the site: (e.g. may include BBS, plant or animal species lists, recommendations for additional inventory work etc. ****For addenda, please note before each portion which field you are continuing.)

SHRUBS AND TREES

Cornus
amomum

Acer
negundo

Fraxinus
americana

Fraxinus
saxatilis

Quercus
macrocarpa

Fraxinus
saxatilis

- Alnus rugosa 0220
- Aronia melanocarpa 0580
- Betula pumila 0900
- Cornus amomum 2068
- Cornus racemosa 2077
- Cornus stolonifera 2083
- Desmodium verticillatum 2326
- Larix laricina 2668
- Physocarpus opulifolius 5063
- Populus tremuloides 5368
- Potentilla fruticosa 5467
- Rhamnus alnifolia 5752
- Rhamnus frangula 5761
- Ribes vulpina 5791
- Ribes americanum 5805

Rhamnus cathartica

- Ribes hirtellum 5827
- Ribes vitigineum 5965
- Salix bebbiana 6187
- Salix cordata 6192
- Salix discolor 6118
- Salix glaucophylla 6124
- Salix pedicularis 6142
- Salix potularia 6148
- Salix pyralifolia 6154
- Salix rigida 6157
- Salix sp. 6074
- Spiraea canadensis 6184
- Spiraea alba 6708
- Spiraea tomentosa 6709
- Ribes americanum 7087
- Viburnum lentago 7277

Phacelia
rodica

Lonicerax bella, L. monarda
Viburnum lentago

ADDITIONAL SPECIES AND COMMENTS:

143 Cx lac³⁰ B Joint¹⁰ Typha³⁰
2016 West 4 Cx lanuginosa

Euphorbia
Phalaris¹⁰

144 - ditch-stream like Phalaris, Cx lac B Joint Euphorbia Salix disc
Phalaris Agrostis lutea

148 - mosaic of dense Phalaris⁹⁰ / Salix potularis¹⁰
2016 south - Patches of Cx lanuginosa⁴⁰, Poa¹⁰, Agrostis solid alt¹⁰, Cornella¹⁰
2019 East - Dense Typha on east side -> Typha Phalaris¹⁰ Cx lac¹⁰ scirpus alt¹⁰

149 Cattail w/ scattered GA sh^{Small trees} Salix pot - Solid⁹⁰ alt Agrostis Canadensis^{monardi}
@ 805 - outer ring of Phalaris
Lonicera

150 - Cattail marsh w/ Cx lac Salix pot Phalaris - outer ring of Phalaris, Lonicera

151 - shallow water Cerata alisma Polyg amphi¹⁰ Phalaris Typha²⁰
Emergent Agrostis²⁰ within Cattail, Phalaris, Salix Ash¹⁰ photo 2020 south

WI Natural Heritage Inventory Natural Community

Office Use Only:
Com_ID 4220
EO_ID _____

Observer(s): A Clark Date: July 12, 2011
 Surveysite and Managed Area: Schackardt Property
 Community Type: Emergent Aquatic - entered as Emergent Marsh
 Town Range Section(Quarter/Quarter): T15NR23E528NWNE County: Iowa
 Community Acreage: _____ Confidence extent: Y N
 GPS coordinates or file information (specify format, Degree Minutes and Seconds preferred) Datum: NAD27 WGS 84 WTM 83/91
 Waypoint #s: 151 Photo #s: 2020 South
 Access: Hwy TA

Community description: Shallow water bordering oak woods on ^{upland} wetland of cattail + reed canary grass w/ willow shrubs + small trees of oak. Open water mostly duckweed, water plantain, water smartweed w/ reed canary grass + cattail

Characteristic spp: Lemna minor, Alisma plantago-aquatica, Polygonum amphibium, Phalaris arundinacea, Typha angustifolia
 Please list the communities' (top 3) dominant species for the appropriate cover class and for each Stratum below:

Stratum	% Cover Class code							Dominant Species
	1	2	3	4	5	6	7	
Canopy	<1	1-5	6-25	26-50	51-75	76-95	96-100	
Subcanopy	<1	1-5	6-25	26-50	51-75	76-95	96-100	
Shrub/Sapling	<1	1-5	6-25	26-50	51-75	76-95	96-100	
Herb	<1	1-5	6-25	26-50	51-75	<u>76-95</u>	96-100	<u>Lemna minor²⁰, Alisma plantago-aquatica²⁰, Polygonum amphibium¹⁰</u>
Bryophyte/Lichen	<1	1-5	6-25	26-50	51-75	76-95	96-100	<u>Typha angustifolia²⁰, Phalaris arundinacea¹⁰</u>
Bare Ground	<1	1-5	6-25	26-50	51-75	76-95	96-100	<u>water</u>

Invasive spp: Phalaris arundinacea

Evidence of disturbance/threats: Formerly farm land, probably used as pasture

Restoration Potential: Potential for reed canary grass to take over

Survey/Inventory/Management needs: wetlands could use a more thorough inventory

Rare species, SGCN species, or unusual features present: _____

Aspect	Slope	Hydrologic Regime	Surface Soils
<input checked="" type="checkbox"/> NW	<input checked="" type="checkbox"/> 0%	<input checked="" type="checkbox"/> Inundated (Hydric)	<input type="checkbox"/> Sand
<input type="checkbox"/> N	<input type="checkbox"/> 1-10%	<input type="checkbox"/> Intermittently Flooded	<input type="checkbox"/> Loamy sand
<input type="checkbox"/> NE	<input type="checkbox"/> 10-25%	<input type="checkbox"/> Saturated (Wet-mesic)	<input type="checkbox"/> Sandy loam
<input type="checkbox"/> E	<input type="checkbox"/> 25-50%	<input type="checkbox"/> Moist (Mesic)	<input type="checkbox"/> Loam
<input type="checkbox"/> S	<input type="checkbox"/> 50-100%	<input type="checkbox"/> Dry-mesic	<input type="checkbox"/> Silt loam
<input type="checkbox"/> SE	<input type="checkbox"/> variable	<input type="checkbox"/> Dry (Xeric)	<input type="checkbox"/> Silt
<input type="checkbox"/> W		<input type="checkbox"/> Variable	<input type="checkbox"/> Clay loam
<input type="checkbox"/> SW			<input checked="" type="checkbox"/> Silty clay <u>muck</u>
<input checked="" type="checkbox"/> Level			
<input type="checkbox"/> variable			

Summary Rank of the Community Condition, Context, Quality and Viability

Rank Definition:	A- Excellent	B - Good	C Marginal	D - Poor			
EO Condition & Quality (e.g. Compostion, natural and human caused disturbances, exotics & community recovery potential)				A	B	C	D
EO Size				A	B	C	D
EO Context (Quality of biotic & abioite factors/processes in surrounding landscape)				A	B	C	D
EO Rank (Summary of all factors listed above)				A	B	C	D
Comments							

Addendum or additional information regarding the site: (e.g. may include BBS, plant or animal species lists, recommendations for additional inventory work etc. ****For addenda, please note before each portion which field you are continuing.)

WI Natural Heritage Inventory Natural Community

Office Use Only:
Com ID 4219
EO ID _____

Observer(s): A Clark Date: July 12, 2011
 Surveysite and Managed Area: Schuchardt Property
 Community Type: Floodplain Forest
 Town Range Section(Quarter/Quarter): T15NR23ESWNE County: Shelby County
 Community Acreage: _____ Confidence extent: Y N
 GPS coordinates or file information (specify format, Degree Minutes and Seconds preferred) Datum: NAD27 WGS 84 WTM 83/91
 Waypoint #s: 155 Photo #s: 2022 North
 Access: Hwy 28

Community description: Lower section of a stream just above junction with the Shelby River. Canopy 80% 12-24" dbh white ash, green ash & box elder. Subcanopy 80% box elder, w/ white ash, green ash. Sapling layer 30% box elder with some white ash. Shrub layer 10% common buckthorn. Herb layer 90% water leaf, dandelion, wood nettle w/ moneywort, garlic mustard, reed canary grass

Characteristic spp: Fraxinus americana, F. pennsylvanica, Acer negundo, Rhamnus cathartica, Hydrophyllum virginianum, Hesperis matronalis, Lapsata canadensis, Lysimachia nummularia, Alliania petiolata
 Please list the communities' (top 3) dominant species for the appropriate cover class and for each Stratum below: Phalaris canadensis

Stratum	% Cover Class code							Dominant Species
	1	2	3	4	5	6	7	
Canopy	<1	1-5	6-25	26-50	51-75	<u>76-95</u>	96-100	<u>Fraxinus americana⁴⁰, F. pennsylvanica²⁰, Acer negundo²⁰</u>
Subcanopy	<1	1-5	6-25	26-50	51-75	<u>76-95</u>	96-100	<u>A. negundo⁴⁰, F. americana²⁰, F. pennsylvanica²⁰</u>
Shrub/Sapling	<1	1-5	6-25	<u>26-50</u>	31-75	76-95	96-100	<u>A. negundo²⁰, F. americana¹⁰, Rhamnus cathartica¹⁰</u>
Herb	<1	1-5	6-25	26-50	51-75	<u>76-95</u>	96-100	<u>Hydrophyllum virginianum²⁵, Hesperis matronalis²⁰, Lapsata²⁰</u>
Bryophyte/Lichen	<u><1</u>	1-5	6-25	26-50	51-75	76-95	96-100	<u>mosses, Canadensis²⁰</u>
Bare Ground	<1	1-5	<u>6-25</u>	26-50	51-75	76-95	96-100	<u>soil, leaf litter</u>

Invasive spp: Rhamnus cathartica, Alliania petiolata, Hesperis matronalis, Lysimachia nummularia, Ribes sativum, Glechoma hederacea, Arctium minus, Taraxacum officinale, Chelidonium majus

Evidence of disturbance/threats: History of disturbance - grazing, logging, etc. Erosion. There has been some recent cutting, possibly for firewood.

Restoration Potential: Box elder & buckthorn are reproducing; the ash is not
Glechoma hederacea

Survey/Inventory/Management needs: Area should receive a thorough inventory

Rare species, SGCN species, or unusual features present: Floodplain forest along a stream

Aspect	Slope	Hydrologic Regime	Surface Soils
<u>NW</u>	<u>0%</u>	<u>Inundated (Hydric)</u>	<u>Sand</u>
<u>N</u>	<u>X 1-10%</u>	<u>X Intermittently Flooded</u>	<u>Loamy sand</u>
<u>NE</u>	<u>10-25%</u>	<u>Saturated (Wet-mesic)</u>	<u>Sandy loam</u>
<u>E</u>	<u>25-50%</u>	<u>Moist (Mesic)</u>	<u>Loam</u>
<u>X S</u>	<u>50-100%</u>	<u>Dry-mesic</u>	<u>Silt loam</u>
<u>SE</u>	<u>variable</u>	<u>Dry (Xeric)</u>	<u>Silt</u>
<u>W</u>		<u>Variable</u>	<u>Clay loam</u>
<u>X SW</u>			<u>X Silty clay</u>
<u>Level</u>			
<u>variable</u>			

Form continues on the back. Make any additional comments for any field where you need more room in the addendum space.

Summary Rank of the Community Condition, Context, Quality and Viability

Rank Definition:	A- Excellent	B - Good	C Marginal	D - Poor
EO Condition & Quality (e.g. Composition, natural and human caused disturbances, exotics & community recovery potential)	A	B	C	D
EO Size	A	B	C	D
EO Context (Quality of biotic & abiotic factors/processes in surrounding landscape)	A	B	C	D
EO Rank (Summary of all factors listed above)	A	B	C	D
Comments				

Addendum or additional information regarding the site: (e.g. may include BBS, plant or animal species lists, recommendations for additional inventory work etc. ****For addenda, please note before each portion which field you are continuing.)

FLOODPLAIN FOREST Com ID - 4219

Department of Natural Resources
Scientific Areas Section
Madison, Wisconsin 53707

PLANT COMMUNITY SPECIES LIST - FLOODPLAIN FOREST, LACUSTRINE FOREST (including marshy sloughs and muddy banks)

A Clark July 12, 13, 2011

LEGEND -- rating of approximate relative frequency

Area Name Schuchardt Property
T 15N R 23E County Dodge WI
Section 28 SUNE

- A Abundant, the dominant vegetation
- C Common, locally abundant or frequently encountered
- U Uncommon, infrequently encountered
- R Rare, very few plants seen

<p><i>Acalypha rhomboidea</i>---0010-----</p> <p><i>Aenidia altissima</i>---0040-----</p> <p><i>Alisma plantago-aquatica</i>---0175-----</p> <p><i>Allium canadense</i>---0193-----</p> <p><i>Ambrosia trifida</i>---0286-----</p> <p><i>Amorpha fruticosa</i>---0322-----</p> <p><i>Amphicarpa bracteata</i>---0325-----</p> <p><i>Anemone quinquefolia</i>---0376-----</p> <p><i>Apios americana</i>---0436-----</p> <p><i>Arabis laevigata</i>---0481-----</p> <p><i>Arabis shortii</i>---0487-----</p> <p><i>Azalia nudicaulis</i>---0493-----</p> <p><i>Arenaria lateriflora</i>---0511-----</p> <p><i>Arisaema triphyllum</i>---0532-----</p> <p><i>Arisaema dracontium</i>---0535-----</p> <p><i>Artemisia serrata</i>---0619-----</p> <p><i>Asarum canadense</i>---0625-----</p> <p><i>Asciopias incarnata</i>---0643-----</p> <p><i>Aster lateriflorus</i>---0727-----</p> <p><i>Aster lucidulus</i>---0733-----</p> <p><i>Aster ontarionis</i>---0745-----</p> <p><i>Aster puniceus</i>---0760-----</p> <p><i>Aster simplex</i>---0775-----</p> <p><i>Athyrium filix-femina</i>---0806-----</p> <p><i>Bidens cernua</i>---0916-----</p> <p><i>Bidens connata</i>---0922-----</p> <p><i>Bidens coronata</i>---0925-----</p> <p><i>Bidens frondosa</i>---0931-----</p> <p><i>Boehmeria cylindrica</i>---0943-----</p> <p><i>Boltonia asteroides</i>---0946-----</p> <p><i>Brachyelytrum erectum</i>---0991-----</p> <p><i>Bromus latiglumis</i>---1045-----</p> <p><i>Calamagrostis canadensis</i>---1096-----</p> <p><i>Caltha palustris</i>---1147-----</p> <p><i>Campanula americana</i>---1165-----</p> <p><i>Cardamine bulbosa</i>---1193-----</p> <p><i>Carex amphibola</i>---1249-----</p> <p><i>Carex blanda</i>---1291-----</p> <p><i>Carex bromoides</i>---1297-----</p> <p><i>Carex crinita</i>---1354-----</p> <p><i>Carex cristatella</i>---1357-----</p> <p><i>Carex davisi</i>---1366-----</p> <p><i>Carex gracillima</i>---1420-----</p> <p><i>Carex grayi</i>---1429-----</p> <p><i>Carex intumescens</i>---1456-----</p> <p><i>Carex lacustris</i>---1462-----</p> <p><i>Carex lupulina</i>---1507-----</p> <p><i>Carex muskingumensis</i>---1531-----</p> <p><i>Carex normalis</i>---1534-----</p> <p><i>Carex rosea</i>---1591-----</p> <p><i>Carex sparganoides</i>---1618-----</p> <p><i>Carex sprengei</i>---1621-----</p> <p><i>Carex stipata</i>---1630-----</p> <p><i>Carex tribuloides</i>---1660-----</p> <p><i>Carex tuckermanii</i>---1669-----</p> <p><i>Carex typhina</i>---1672-----</p> <p><i>Carex vulpinoidea</i>---1690-----</p> <p><i>Carex sp.</i>---1228-----</p> <p><i>Carex spp.</i>---1231-----</p> <p><i>Cephalanthus occidentalis</i>---1774-----</p>	<p><i>Cicuta bulbifera</i>---1897-----</p> <p><i>Cicuta maculata</i>---1900-----</p> <p><i>Cinna arundinacea</i>---1906-----</p> <p><i>Cinna latifolia</i>---1909-----</p> <p><i>Circaea quadrisulcata</i>---1918-----</p> <p><i>Claytonia virginica</i>---1957-----</p> <p><i>Clematis virginiana</i>---1963-----</p> <p><i>Cornus amomum</i>---2068-----</p> <p><i>Cornus racemosa</i>---2077-----</p> <p><i>Cornus rugosa</i>---2080-----</p> <p><i>Cornus stolonifera</i>---2083-----</p> <p><i>Crataegus sp.</i>---2110-----</p> <p><i>Cryotaenia canadensis</i>---2176-----</p> <p><i>Cuscuta sp.</i>---2182 C. spp.---2185-----</p> <p><i>Cyperus sp.</i>---2224-----</p> <p><i>Cyperus spp.</i>---2227-----</p> <p><i>Dioscorea villosa</i>---2413-----</p> <p><i>Dryopteris intermedia</i>---2494-----</p> <p><i>Dryopteris spinulosa</i>---2509-----</p> <p><i>Echinochloa crusgalli</i>---2533-----</p> <p><i>Echinochloa walteri</i>---2536-----</p> <p><i>Echinocystis lobata</i>---2539-----</p> <p><i>Eleocharis acicularis</i>---2566-----</p> <p><i>Eleocharis sp.</i>---2560 E. spp.---2563-----</p> <p><i>Elymus virginicus</i>---2650-----</p> <p><i>Equisetum arvense</i>---2695-----</p> <p><i>Eragrostis hypnoides</i>---2743-----</p> <p><i>Erigeron annuus</i>---2779-----</p> <p><i>Euonymus atropurpureus</i>---2854-----</p> <p><i>Eupatorium maculatum</i>---2869-----</p> <p><i>Eupatorium perfoliatum</i>---2872-----</p> <p><i>Eupatorium rugosum</i>---2878-----</p> <p><i>Festuca obtusa</i>---2953-----</p> <p><i>Fragaria virginiana</i>---2992-----</p> <p><i>Galium aparine</i>---3043-----</p> <p><i>Galium asprellum</i>---3046-----</p> <p><i>Galium obtusum</i>---3067-----</p> <p><i>Galium trifidum</i>---3076-----</p> <p><i>Galium triflorum</i>---3079-----</p> <p><i>Geum canadense</i>---3223-----</p> <p><i>Glyceria canadensis</i>---3256-----</p> <p><i>Glyceria striata</i>---3268-----</p> <p><i>Habenaria flava</i>---3349-----</p> <p><i>Habenaria psycodes</i>---3370-----</p> <p><i>Helenium autumnale</i>---3394-----</p> <p><i>Heliopsis scabra</i>---3454-----</p> <p><i>Helianthus tuberosus</i>---3457-----</p> <p><i>Hemicarpha micrantha</i>---3472-----</p> <p><i>Hibiscus militaris</i>---3496-----</p> <p><i>Hydrophyllum virginianum</i>---3592-----</p> <p><i>Ilex verticillata</i>---3652-----</p> <p><i>Impatiens capensis</i>---3655-----</p> <p><i>Impatiens pallida</i>---3658-----</p> <p><i>Iris virginica</i>---3685-----</p> <p><i>Laportea canadensis</i>---3853-----</p> <p><i>Leersia lenticularis</i>---3923-----</p> <p><i>Leersia oryzoides</i>---3931-----</p> <p><i>Leersia virginica</i>---3934-----</p> <p><i>Lindernia dubia</i>---4054-----</p> <p><i>Lobelia cardinalis</i>---4135-----</p>	<p><i>Ludwigia palustris</i>---4207-----</p> <p><i>Ludwigia polycarpa</i>---4210-----</p> <p><i>Lycopus americanus</i>---4273-----</p> <p><i>Lycopus uniflorus</i>---4294-----</p> <p><i>Lycopus virginicus</i>---4297-----</p> <p><i>Lysimachia ciliata</i>---4306-----</p> <p><i>Lysimachia nummularia</i>---4318-----</p> <p><i>Mattuccia struthiopteris</i>---4393-----</p> <p><i>Menispermum canadense</i>---4432-----</p> <p><i>Mentha arvensis</i>---4441-----</p> <p><i>Mertensia virginica</i>---4456-----</p> <p><i>Mimulus ringens</i>---4465-----</p> <p><i>Muhlenbergia frondosa</i>---4531-----</p> <p><i>Myosotis scorpioides</i>---4570-----</p> <p><i>Nelumbo lutea</i>---4636-----</p> <p><i>Onoclea sensibilis</i>---4711-----</p> <p><i>Osmorhiza claytonii</i>---4765-----</p> <p><i>Osmorhiza longistylis</i>---4768-----</p> <p><i>Parthenocissus quinquefolia</i>---4945-----</p> <p><i>Penthorum sedoides</i>---4999-----</p> <p><i>Phalaris arundinacea</i>---5020-----</p> <p><i>Phlox divaricata</i>---5033-----</p> <p><i>Phyla lanceolata</i>---5059-----</p> <p><i>Physostegia virginiana</i>---5036-----</p> <p><i>Pilea pumila</i>---5104-----</p> <p><i>Polemonium reptans</i>---5215-----</p> <p><i>Polygonatum pubescens</i>---5243-----</p> <p><i>Polygonum amphibium</i>---5263-----</p> <p><i>Polygonum coquimboides</i>---5281-----</p> <p><i>Polygonum hydropiper</i>---5293-----</p> <p><i>Polygonum hydropiperoides</i>---5296-----</p> <p><i>Polygonum pensylvanicum</i>---5305-----</p> <p><i>Polygonum punctatum</i>---5311-----</p> <p><i>Polygonum sagittatum</i>---5317-----</p> <p><i>Proserpinaca palustris</i>---5518-----</p> <p><i>Ptelea trifoliata</i>---5533-----</p> <p><i>Ranunculus abortivus</i>---5633-----</p> <p><i>Ranunculus septentrionalis</i>---5734-----</p> <p><i>Rhus radicans</i>---5785-----</p> <p><i>Ribes americanum</i>---5815-----</p> <p><i>Rorippa islandica</i>---5869-----</p> <p><i>Rubus occidentalis</i>---5983-----</p> <p><i>Rudbeckia laciniata</i>---6025-----</p> <p><i>Rumex altissimus</i>---6046-----</p> <p><i>Rumex obtusifolius</i>---6053-----</p> <p><i>Rumex orbiculatus</i>---6059-----</p> <p><i>Rumex verticillatus</i>---6064-----</p> <p><i>Sagittaria cuneata</i>---6082-----</p> <p><i>Sagittaria graminea</i>---6085-----</p> <p><i>Sagittaria latifolia</i>---6088-----</p> <p><i>Sagittaria rigida</i>---6091-----</p> <p><i>Salix discolor</i>---6118-----</p> <p><i>Salix interior</i>---6133-----</p> <p><i>Salix sp.</i>---6094-----</p> <p><i>Salix spp.</i>---6097-----</p> <p><i>Sambucus canadensis</i>---6184-----</p> <p><i>Sanicula gregaria</i>---6205-----</p> <p><i>Scirpus cyperinus</i>---6263-----</p> <p><i>Scirpus fluviatilis</i>---6277-----</p> <p><i>Scirpus sp.</i>---6247-----</p>
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(continued on other side)

Additional species:

Poa compressa *Alcornoque* *Clethra* *Heppia* *Arctium*
Chelidonium majus *Taraxacum* *Heracleum* *Mosses*

PLANT COMMUNITY SPECIES LIST --
 FLOODPLAIN FOREST, LACUSTRINE FOREST
 (Including marshy sloughs and muddy banks)

LEGEND - rating of approximate relative frequency

- A Abundant, the dominant vegetation
- C Common, locally abundant or frequently encountered
- U Uncommon, infrequently encountered
- R Rare, very few plants seen

Area Name _____

T _____ R _____ County _____

Section _____

(continued)

Scirpus spp.--6250	<i>Smilacina</i>	Typha latifolia--7078	U X	Celtis occidentalis--1750	
Scrophularia lanceolata--6328	<i>oblongata</i>	Urtica procera--7102		Fagus grandifolia--2938	
Scrophularia marilandica--6331		Uvularia sessilifolia--7138		Fraxinus americana--3001	A X
Scutellaria epilobifolia--6337		Verbena hastata--7198		Fraxinus nigra--3004	
Scutellaria lateriflora--6340		Verbena urticifolia--7210		Fraxinus pennsylvanica (red)--3007	
Senecio aureus--6379		Viburnum lentago--7297		Fraxinus pennsylvanica (green)--3010	A
Sicyos angulatus--6430		Viola conspersa--7360	U X	Gleditsia triacanthos--3244	
Silphium perfoliatum--6472		Viola cucullata--7363		Gymnocladus dioica--3325	
Sium suave--6508		Viola papilionacea--7390		Juglans cinerea--3712	
Smilax ecirrhata--6526	R X	Viola pubescens--7405		Morus rubra--4516	
Smilax lasioneura--6532		Viola sp.--7342 V. spp.--7345		Ostrya virginiana--4789	
Smilax hispida--6538		Vitis riparia--7441	X	Platanus occidentalis--5158	
Soianum dulcamera--6547		Xanthoxylum americanum--7480		Populus deltoides--5356	U
Solidago altissima--6562	C X	Zizia aurea--7513		Prunus serotina--5551	
Solidago gigantea--6574				Quercus alba--5650	
Stachys hispida--6756		TREES		Quercus bicolor--5653	
Stachys palustris--6757		Acer negundo--0013	X A	Quercus borealis--5656	
Staphylea trifolia--6763		Acer rubrum--0022		Quercus macrocarpa--5662	
Symplocarpus foetidus--6841		Acer saccharinum--0025	X P	Quercus velutina--5674	
Teucrium canadense--6871		Betula alleghaniensis--0886		Salix nigra--6139	
Thalictrum dasycarpum--6883	C X	Betula nigra--0895		Tilia americana--6925	
Thelypteris palustris--6907		Carya cordiformis--1705		Ulmus americana--7087	U X
Tovara virginiana--6943		Carya ovata--1708		Ulmus rubra--7093	
Trillium sp.--7021				Ulmus thomasi--7096	

Additional species:

Prinos ving
 155 - stream *BASH* 20, 20, 10 *Box elder* 20, 40, 20
Ribes satorum *Rhamnus cathartica* C
 12 - 24"
Rhamnus cath 10
 Photo 2022 North
Neesperis 25 *Hydrophyllum* 25 *Lysichiton* 10
App 10 *Phalaris* 5

FLOODPLAIN FOREST

COMID - 4221

Department of Natural Resources
Scientific Areas Section
Madison, Wisconsin 53707

PLANT COMMUNITY SPECIES LIST -
FLOODPLAIN FOREST, LACUSTRINE FOREST
(Including marshy sloughs and muddy banks)

Ac July 12, 2011

entered as separate community

Area Name Schuchardt Property
T 15N R 23E County Sheboygan Co
Section 28 NENW

LEGEND - rating of approximate relative frequency

- A Abundant, the dominant vegetation
- C Common, locally abundant or frequently encountered
- U Uncommon, infrequently encountered
- R Rare, very few plants seen

Acalypha rhomboidea--0010	Cicuta bulbifera--1897	Ludwigia palustris--4207
Aenidia altissima--0040	Cicuta maculata--1900	Ludwigia polycarpa--4210
Alisma plantago-aquatica--0175	Cinna arundinacea--1906	Lycopus americanus--4273
Allium canadense--0193	Cinna latifolia--1909	Lycopus uniflorus--4294
Ambrosia trifida--0286	Circaea quadrilocata--1918	Lycopus virginicus--4297
Amorpha fruticosa--0322	Claytonia virginica--1957	Lysimachia ciliata--4306
Amphicarpa bracteata--0325	Clematis virginiana--1963	Lysimachia nummularia--4318
Anemone quinquefolia--0376	Cornus amomum--2068	Matteuccia struthiopteris--4393
Apios americana--0436	Cornus racemosa--2077	Mentispermum canadense--4432
Arabis laevigata--0481	Cornus rugosa--2080	Mentha arvensis--4441
Arabis shortii--0487	Cornus stolonifera--2083	Mertensia virginica--4456
Aralia nudicaulis--0493	Crataegus sp.--2110	Mimulus ringens--4465
Arenaria lateriflora--0511	Cryptotaenia canadensis--2176	Muhlenbergia frondosa--4531
Arisaema triphyllum--0532	Cuscuta sp.--2182 C. spp.--2185	Myosotis scorpioides--4570
Arisaema dracontium--0535	Cyperus sp.--2224	Nelumbo lutea--4636
Artemisia serrata--0619	Cyperus spp.--2227	Onoclea sensibilis--4711
Asarum canadense--0625	Dioscorea villosa--2413	Osmorhiza claytoni--4765
Asclepias incarnata--0643	Dryopteris intermedia--2494	Osmorhiza longistylis--4768
Aster lateriflorus--0727	Dryopteris spinulosa--2509	Parthenocissus quinquefolia--4945
Aster lucidulus--0733	Echinochloa crusgalli--2538	Penthorum sedoides--4999
Aster ontarionis--0745	Echinochloa walteri--2536	Phalaris arundinacea--5020
Aster puniceus--0760	Echinochloa walteri--2536	Phlox divaricata--5033
Aster simplex--0775	Echinochloa walteri--2536	Phlox lanceolata--5059
Atayrium felix-femina--0805	Eleocharis acicularis--2566	Phytostegia virginiana--5036
Bidens cernua--0916	Eleocharis sp.--2560 E. spp.--2563	Pilea pumila--5104
Bidens connata--0922	Elymus virginicus--2650	Polemonium reptans--5213
Bidens coronata--0925	Equisetum arvense--2695	Polygonatum pubescens--5243
Bidens frondosa--0931	Eragrostis hypnoides--2743	Polygonum amphibium--5263
Boehmeria cylindrica--0943	Erigeron annuus--2779	Polygonum coccineum--5281
Boitonia asteroides--0946	Euonymus atropurpureus--2854	Polygonum hydropiper--5293
Brachyelytrum erectum--0991	Eupatorium maculatum--2869	Polygonum hydropiperoides--5296
Bromus latiglumis--1045	Eupatorium perfoliatum--2872	Polygonum pensylvanicum--5305
Calamagrostis canadensis--1096	Eupatorium rugosum--2878	Polygonum punctatum--5311
Caltha palustris--1147	Festuca obtusa--2953	Polygonum sagittatum--5317
Campanula americana--1165	Fragaria virginiana--2992	Proserpinaca palustris--5518
Cardamine bulbosa--1198	Galium aparine--3043	Ptelea trifoliata--5566
Carex amphibola--1249	Galium asprellum--3046	Ranunculus abortivus--5633
Carex blanda--1291	Galium obtusum--3067	Ranunculus septentrionalis--5734
Carex bromoides--1297	Galium trifidum--3076	Rhus radicans--5785
Carex crinita--1354	Galium triflorum--3079	Ribes americanum--5815
Carex cristatella--1357	Geum canadense--3223	Rorippa islandica--5869
Carex davisii--1366	Glyceria canadensis--3256	Rubus occidentalis--5983
Carex gracillima--1420	Glyceria striata--3268	Rudbeckia laciniata--6025
Carex grayi--1429	Habenaria flava--3349	Rumex altissimus--6046
Carex intumescens--1456	Habenaria psycodes--3370	Rumex obtusifolius--6053
Carex lacustris--1462	Helenium autumnale--3394	Rumex orbiculatus--6059
Carex lupulina--1507	Helianthus strumosus--3454	Rumex verticillatus--6064
Carex muskingumensis--1631	Helianthus tuberosus--3457	Sagittaria cuneata--6082
Carex normalis--1534	Hemicarpha micrantha--3472	Sagittaria graminea--6085
Carex rosea--1591	Hibiscus militaris--3496	Sagittaria latifolia--6088
Carex sparganioides--1618	Hydrophyllum virginianum--3592	Sagittaria rigida--6091
Carex sprengei--1621	Ilex verticillata--3652	Salix discolor--6118
Carex stipata--1630	Impatiens capensis--3655	Salix interior--6133
Carex tribuloides--1660	Impatiens pallida--3658	Salix sp.--6094
Carex tuckermanii--1669	Iris virginica--3685	Salix spp.--6097
Carex typhina--1672	Laportea canadensis--3853	Sambucus canadensis--6184
Carex vulpinoidea--1690	Leersia lenticularis--3923	Sanicula gregaria--6205
Carex sp.--1223	Leersia oryzoides--3931	Scirpus cyperinus--6268
Carex spp.--1231	Leersia virginica--3934	Scirpus fluvialis--6277
Cephalanthus occidentalis--1774	Lindernia dubia--4054	Scirpus sp.--6247
	Lobelia cardinalis--4135	

(continued on other side)

Additional species:

Alcornoque C Hemerocallis Geranium maculatum Taraxacum Ribes sativum
Monarda fistulosa Arctium Hesperis Leonurus
Hemerocallis virginiana Geranium maculatum
Observer _____ Date _____

PLANT COMMUNITY SPECIES LIST —
 FLOODPLAIN FOREST, LACUSTRINE FOREST
 (Including marshy sloughs and muddy banks)

LEGEND -- rating of approximate relative frequency

- A Abundant, the dominant vegetation
- C Common, locally abundant or frequently encountered
- U Uncommon, infrequently encountered
- R Rare, very few plants seen

Area Name _____
 T _____ R _____ County _____
 Section _____

(continued)

Scirpus spp.---6250-----	Typha latifolia---7078-----	Celtis occidentalis---1750-----
Scrophularia lanceolata---6328-----	Urtica procera---7102-----	Fagus grandifolia---2938-----
Scrophularia marilandica---6331-----	Uvularia sessilifolia---7138-----	Fraxinus americana---3001-----
Scutellaria epilobiifolia---6337-----	Verbena hastata---7198-----	Fraxinus nigra---3004-----
Scutellaria lateriflora---6340-----	Verbena urticifolia---7210-----	Fraxinus pennsylvanica (red)---3007-----
Senecio aureus---6379-----	Viburnum lentago---7297-----	Fraxinus pennsylvanica (green)---3010-----
Sicyos angulatus---6430-----	Viola conspersa---7360-----	Gleditsia triacanthos---3244-----
Silphium perfoliatum---6472-----	Viola cucullata---7363-----	Gymnocladus dioica---3225-----
Sium suave---6508-----	Viola papilionacea---7390-----	Juglans cinerea---3712-----
Smilax ecirrhata---6526-----	Viola pubescens---7405-----	Morus rubra---4516-----
Smilax lasioneura---6532-----	Viola sp.---7342 V. spp.---7345-----	Ostrya virginiana---4789-----
Smilax hispida---6538-----	Vitis riparia---7441-----	Platanus occidentalis---5158-----
Soianum dulcamera---6547-----	Xanthoxylum americanum---7480-----	Populus deltoides---5356-----
Solidago altissima---6562-----	Zizia aurea---7513-----	Prunus serotina---5551-----
Solidago gigantea---6574-----		Quercus alba---5650-----
Stachys hispida---6756-----	TREES	Quercus bicolor---5653-----
Stachys palustris---6757-----	Acer negundo---0013-----	Quercus borealis---5656-----
Staphylea trifolia---6763-----	Acer rubrum---0022-----	Quercus macrocarpa---5662-----
Symplocarpus foetidus---6841-----	Acer saccharinum---0025-----	Quercus velutina---5674-----
Teucrium canadense---6871-----	Betula alleghaniensis---0886-----	Salix nigra---6139-----
Thalictrum dasycarpum---6883-----	Betula nigra---0895-----	Tilia americana---6925-----
Thelypteris palustris---6907-----	Carya cordiformis---1705-----	Ulmus americana---7087-----
Toxaria virginiana---6943-----	Carya ovata---1708-----	Ulmus rubra---7093-----
Trillium sp.---7021-----		Ulmus thomasi---7096-----

Additional species:

Robinia *Sabxifagin* *Rhamnus cathartica* A
 154 - Cottonwood ¹⁶⁻²⁴⁴ ^{20, 40, 20} ^{0, 10, 20} *Lonicera x bella*, *L. morrowii*
 Autumnal *Rhamnus* ⁴⁰ *Hydrophyllum* ¹⁰ *Solid. att* ¹⁰ *Hoggin* ¹⁰ *Phalaris*
 South of RR, along stream *Photo 2031 New Allin* ¹⁰