

## Appendix F. The Middle Huron River Watershed Management Plan, Section 1

### Threatened and Endangered Species in Washtenaw County.

*Threatened, Endangered, and Special Concern Occurrences in Washtenaw County from 1968-Present. As many have not be seen/recorded in some time, it is possible they have been extirpated. Digital version of this table links directly to the MNFI website. Explanation of codes is below.*

Common Name	Scientific Name	Federal Status	State Status	State Rank	Global Rank	Occurrences in County	Last Observed in County
<b>AMPHIBIAN</b>							
<u>Blanchard's cricket frog</u>	Acris blanchardi		T	S2S3	G5	10	2012
<u>Pickereel frog</u>	Lithobates palustris		SC	S3S4	G5	6	2018
<u>Smallmouth salamander</u>	Ambystoma texanum		E	S1	G5	2	2001
<b>BIRD</b>							
<u>American bittern</u>	Botaurus lentiginosus		SC	S3	G5	1	1989
<u>Bald eagle</u>	Haliaeetus leucocephalus		SC	S4	G5	4	2017
<u>Cerulean warbler</u>	Setophaga cerulea		T	S3	G4	4	2018
<u>Dickcissel</u>	Spiza americana		SC	S3	G5	4	2017
<u>Grasshopper sparrow</u>	Ammodramus savannarum		SC	S4	G5	3	2008
<u>Henslow's sparrow</u>	Ammodramus henslowii		E	S3	G4	4	2007
<u>Hooded warbler</u>	Setophaga citrina		SC	S3	G5	5	2010
<u>Least bittern</u>	Ixobrychus exilis		T	S3	G5	2	2006
<u>Louisiana waterthrush</u>	Parkesia motacilla		T	S2	G5	1	2005
<u>Marsh wren</u>	Cistothorus palustris		SC	S3	G5	3	2006

<u>Osprey</u>	Pandion haliaetus		SC	S4	G5	6	2019
<u>Peregrine falcon</u>	Falco peregrinus		E	S3	G4	1	2018
<u>Prairie warbler</u>	Setophaga discolor		E	S3	G5	1	2005
<u>Prothonotary warbler</u>	Protonotaria citrea		SC	S3	G5	1	2018
<u>Red-shouldered hawk</u>	Buteo lineatus		T	S4	G5	1	2005
<u>Trumpeter swan</u>	Cygnus buccinator		T	S3	G4	4	2018
<u>King rail</u>	Rallus elegans		E	S2	G4	3	1948
<b>CRUSTACEAN</b>							
<u>Big water crayfish</u>	Cambarus robustus		SC	S2?	G5	3	2015
<b>FISH</b>							
<u>Bigeye chub</u>	Notropis amblops		X	SH	G5	1	1931
<u>Brindled madtom</u>	Noturus miurus		SC	S2	G5	13	2008
<u>Lake herring or Cisco</u>	Coregonus artedi		T	S3	G5	6	2009
<u>Northern madtom</u>	Noturus stigmosus		E	S1	G3	7	2008
<u>Orangethroat darter</u>	Etheostoma spectabile		SC	S1	G5	13	1995
<u>Pugnose shiner</u>	Notropis anogenus		E	S1S2	G3	1	1938
<u>Redside dace</u>	Clinostomus elongatus		E	S2	G3G4	3	2012
<u>Silver shiner</u>	Notropis photogenis		E	S1	G5	7	2000
<u>Southern redbelly dace</u>	Chrosomus erythrogaster		E	SH	G5	7	1973
<b>GASTROPOD</b>							
<u>A land snail (no common name)</u>	Catinella protracta		E	SNR	G2Q	1	1947

<u>Banded globe</u>	Anguispira kochi		SC	S1	G5	1	1970
<u>Brown walker</u>	Pomatiopsis cincinnatiensis		SC	SH	G4	4	1970
<u>Campeloma spire snail</u>	Cincinnatia cincinnatiensis		SC	S3	G5	1	
<u>Copper button</u>	Mesomphix cupreus		SC	S1	G5	17	1944
<u>Depressed ambersnail</u>	Oxyloma peoriense		SC	SNR	G4G5	1	
<u>Domed disc</u>	Discus patulus		SC	S1S2	G5	1	1970
<u>Gravel pyrg</u>	Pyrgulopsis letsoni		SC	SH	GU	2	1946
<u>Lambda snaggletooth</u>	Gastrocopta holzingeri		E	S1	G5	1	1942
<u>Widespread column</u>	Pupilla muscorum		SC	S2	G5	1	1962
<b>INSECT</b>							
<u>American bumble bee</u>	Bombus pensylvanicus		SC	SNR	G3G4	7	1981
<u>American burying beetle</u>	Nicrophorus americanus	E	X	SH	G2G3	2	1917
<u>Angular spittlebug</u>	Lepyronia angulifera		SC	S3	G3	2	2008
<u>Black and gold bumble bee</u>	Bombus auricomus		SC	SNR	G4G5	4	2010
<u>Blazing star borer</u>	Papaipema beeriana		SC	S2	G2G3	2	2013
<u>Corylus dagger moth</u>	Acronicta falcata		SC	S2S3	G2G4	1	1963
<u>Culvers root borer</u>	Papaipema sciata		SC	S3	G3	1	2016
<u>Dukes' skipper</u>	Euphyes dukesi		T	S2	G3	4	2005
<u>Laura's snaketail</u>	Stylurus laurae		SC	S3	G4	1	1933
<u>Leafhopper</u>	Dorydiella kansana		SC	S3	GNR	3	2009
<u>Mitchell's satyr</u>	Neonympha mitchellii mitchellii	E	E	S1	G2T2	2	2015

<u>Pipevine swallowtail</u>	Battus philenor		SC	S2S3	G5	1	2015
<u>Poweshiek skipperling</u>	Oarisma poweshiek	E	T	S1	G1	2	2012
<u>Regal fritillary</u>	Speyeria idalia		E	SH	G3	3	1958
<u>Rusty-patched bumble bee</u>	Bombus affinis	E	SC	SNR	G1	5	1999
<u>Silphium borer moth</u>	Papaipema silphii		T	S1	G3G4	1	1996
<u>Swamp metalmark</u>	Calephelis mutica		SC	S1	G3	5	1988
<u>Tamarack tree cricket</u>	Oecanthus laricis		SC	S3	G1G2	4	2008
<b>MAMMAL</b>							
<u>Indiana bat</u>	Myotis sodalis	E	E	S1	G2	3	2005
<u>Least shrew</u>	Cryptotis parva		T	S1S2	G5	7	1958
<u>Little brown bat</u>	Myotis lucifugus		SC	S1	G3	3	1992
<u>Northern long-eared bat</u>	Myotis septentrionalis	T	SC	S1	G1G2	2	2003
<u>Woodland vole</u>	Microtus pinetorum		SC	S3S4	G5	2	1929
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<b>MOLLUSK</b>							
<u>Black sandshell</u>	Ligumia recta		E	S1?	G4G5	3	2007
<u>Creek heelsplitter</u>	Lasmigona compressa		SC	S3	G5	5	1978
<u>Elktoe</u>	Alasmidonta marginata		SC	S3?	G4	11	2010
<u>Ellipse</u>	Venustaconcha ellipsiformis		SC	S3	G4	1	2000
<u>Flat dome</u>	Ventridens suppressus		SC	SNR	G5	4	1962
<u>Flutedshell</u>	Lasmigona costata		SC	SNR	G5	3	1943
<u>Hickorynut</u>	Obovaria olivaria		E	S1	G4	1	1996
<u>Kidney shell</u>	Ptychobranthus fasciolaris		SC	S2	G4G5	9	2018
<u>Ornamanted peaclam</u>	Pisidium cruciatum		SC	SNR	G4?	1	1941

<u>Paper pondshell</u>	Utterbackia imbecillis		SC	S2S3	G5	6	1946
<u>Purple wartyback</u>	Cyclonaias tuberculata		T	S2	G5	11	2010
<u>Rainbow</u>	Villosa iris		SC	S3	G5Q	11	2018
<u>River fingernail clam</u>	Sphaerium fabale		SC	SNR	G5	3	1959
<u>Round pigtoe</u>	Pleurobema sintoxia		SC	S3	G4G5	6	2010
<u>Slippershell</u>	Alasmidonta viridis		T	S2S3	G4G5	18	2018
<u>Snuffbox</u>	Epioblasma triquetra	E	E	S1S2	G3	3	1977
<u>Wavyrayed lampmussel</u>	Lampsilis fasciola		T	S2	G5	13	2018
<b>PLANT</b>							
<u>American bugseed</u>	Corispermum americanum		SC	SNR	G5?	1	2011
<u>American chestnut</u>	Castanea dentata		E	S1S2	G4	1	2014
<u>American lotus</u>	Nelumbo lutea		T	S2	G4	1	2018
<u>Bald-rush</u>	Rhynchospora scirpoides		T	S2	G4	2	1995
<u>Beaked agrimony</u>	Agrimonia rostellata		T	S2	G5	2	2018
<u>Black haw</u>	Viburnum prunifolium		SC	S3	G5	1	2013
<u>Blue-eyed Mary</u>	Collinsia verna		SC	SNR	G5	1	1894
<u>Bog bluegrass</u>	Poa paludigena		T	S2	G3	4	2001
<u>Broad-leaved puccoon</u>	Lithospermum latifolium		SC	S2	G4	4	2018
<u>Canada cinquefoil</u>	Potentilla canadensis		SC	SNR	G5	3	1966
<u>Canadian burnet</u>	Sanguisorba canadensis		E	S1	G5	3	2011
<u>Canadian milk vetch</u>	Astragalus canadensis		T	S1S2	G5	3	1990
<u>Climbing fumitory</u>	Adlumia fungosa		SC	S3	G4	1	1984

<u>Clinton's bulrush</u>	Trichophorum clintonii		SC	S3	G4	4	1990
<u>Common gallinule</u>	Gallinula galeata		T	S3	G5	2	2005
<u>Compass plant</u>	Silphium laciniatum		T	S1S2	G5	2	1983
<u>Cooper's milk vetch</u>	Astragalus neglectus		SC	S3	G4	1	1930
<u>Creeping whitlow grass</u>	Draba reptans		T	S1	G5	1	2012
<u>Cup plant</u>	Silphium perfoliatum		T	S2	G5	3	2018
<u>Davis's sedge</u>	Carex davisii		SC	S3	G4	1	1939
<u>Downy gentian</u>	Gentiana puberulenta		E	S1	G4G5	1	1867
<u>Dwarf-bulrush</u>	Lipocarpa micrantha		SC	S3	G5	1	1987
<u>Edible valerian</u>	Valeriana edulis var. ciliata		T	S2	G5T3	6	2012
<u>False hop sedge</u>	Carex lupuliformis		T	S2	G4	3	2012
<u>Fescue sedge</u>	Carex festucacea		SC	S1	G5	1	1970
<u>Ginseng</u>	Panax quinquefolius		T	S2S3	G3G4	10	2014
<u>Goldenseal</u>	Hydrastis canadensis		T	S2	G3G4	20	2018
<u>Gray birch</u>	Betula populifolia		SC	S3	G5	1	2015
<u>Green violet</u>	Hybanthus concolor		SC	S3	G5	4	2001
<u>Hairy angelica</u>	Angelica venenosa		SC	S3	G5	7	2008
<u>Hairy wild petunia</u>	Ruellia humilis		T	S1	G5	1	1931
<u>Hairy-fruited sedge</u>	Carex trichocarpa		SC	S2	G4	3	2004
<u>Hemlock-parsley</u>	Conioselinum chinense		SC	SNR	G5	6	2011
<u>Horsetail spike rush</u>	Eleocharis equisetoides		SC	S3	G4	7	2018
<u>Jacob's ladder</u>	Polemonium reptans		T	S2	G5	1	1982

<u>Least pinweed</u>	<i>Lechea minor</i>		X	S1	G5	1	1924
<u>Leiberg's panic grass</u>	<i>Dichanthelium leibergii</i>		T	S2	G4	11	2008
<u>Lesser ladies'-tresses</u>	<i>Spiranthes ovalis</i>		T	S1	G5?	3	2011
<u>Love grass</u>	<i>Eragrostis capillaris</i>		SC	SH	G5	1	1999
<u>Low-forked chickweed</u>	<i>Paronychia fastigiata</i>		X	SX	G5	1	1909
<u>Mat muhly</u>	<i>Muhlenbergia richardsonis</i>		T	S2	G5	2	2004
<u>Murray birch</u>	<i>Betula murrayana</i>		SC	S1	G1Q	1	1994
<u>Northern appressed clubmoss</u>	<i>Lycopodiella subappressa</i>		SC	S2	G2	1	2010
<u>Northern bayberry</u>	<i>Myrica pensylvanica</i>		T	S2	G5	1	2008
<u>Northern prostrate clubmoss</u>	<i>Lycopodiella margueritae</i>		T	S2	G1G2	1	2010
<u>Orange- or yellow-fringed orchid</u>	<i>Platanthera ciliaris</i>		E	S1S2	G5	4	1986
<u>Pale avens</u>	<i>Geum virginianum</i>		SC	S1S2	G5	4	2016
<u>Pale beard tongue</u>	<i>Penstemon pallidus</i>		SC	SX	G5	1	1936
<u>Panicled screwstem</u>	<i>Bartonia paniculata</i>		T	S2	G5	1	2014
<u>Prairie buttercup</u>	<i>Ranunculus rhomboideus</i>		T	S2	G5	1	1924
<u>Prairie dropseed</u>	<i>Sporobolus heterolepis</i>		SC	S3	G5	4	2013
<u>Prairie white-fringed orchid</u>	<i>Platanthera leucophaea</i>	T	E	S1	G2G3	2	2016
<u>Purple coneflower</u>	<i>Echinacea purpurea</i>		X	SX	G4	1	1868
<u>Purple false oats</u>	<i>Grappheporum melicoides</i>		SC	SNR	G4	1	1892
<u>Purple milkweed</u>	<i>Asclepias purpurascens</i>		T	S2	G5?	3	2018
<u>Purple turtlehead</u>	<i>Chelone obliqua</i>		E	S1	G4	3	2004

<u>Ram's head lady's-slipper</u>	Cypripedium arietinum		SC	S3	G3	1	1892
<u>Red mulberry</u>	Morus rubra		T	S2	G5	4	2013
<u>Rosepink</u>	Sabatia angularis		T	S2	G5	1	1963
<u>Rosinweed</u>	Silphium integrifolium		T	S2	G5	1	1984
<u>Sedge</u>	Carex amphibola		SC	SNR	G5	2	2011
<u>Sedge</u>	Carex seorsa		T	S2	G5	2	1994
<u>Sedge</u>	Carex squarrosa		SC	S1	G4G5	3	2014
<u>Showy orchis</u>	Galearis spectabilis		T	S2	G5	4	1963
<u>Side-oats grama grass</u>	Bouteloua curtipendula		E	S1	G5	4	2012
<u>Smooth carrion-flower</u>	Smilax herbacea		SC	S3	G5	1	1971
<u>Spike rush</u>	Eleocharis radicans		X	S1	G5	1	1930
<u>Spike-rush</u>	Eleocharis geniculata		X	SX	G5	2	1936
<u>Stiff gentian</u>	Gentianella quinquefolia		T	S2	G5	4	2012
<u>Sullivant's milkweed</u>	Asclepias sullivantii		T	S2	G5	1	2013
<u>Swamp or Black cottonwood</u>	Populus heterophylla		E	S1	G5	2	1989
<u>Tall nut rush</u>	Scleria triglomerata		SC	S3	G5	2	1990
<u>Three-seed sedge</u>	Carex billingsii		SC	SNR	G5T4	1	1995
<u>Toadshade</u>	Trillium sessile		T	S2S3	G4G5	2	1999
<u>Trailing wild Bean</u>	Strophostyles helvula		SC	S3	G5	1	1924
<u>Twinleaf</u>	Jeffersonia diphylla		SC	S3	G5	4	2018
<u>Umbrella-grass</u>	Fuirena pumila		T	S2	G4	2	1994
<u>Upland boneset</u>	Eupatorium sessilifolium		T	S1	G5	3	2018
<u>Virginia flax</u>	Linum virginianum		T	S2	G4G5	2	1922

<u>Virginia snakeroot</u>	Endodeca serpentaria		T	S2	G4	4	2009
<u>Virginia spiderwort</u>	Tradescantia virginiana		SC	S2	G5	1	1918
<u>Wahoo</u>	Euonymus atropurpureus		SC	S3	G5	6	2003
<u>Water willow</u>	Justicia americana		T	S2	G5	6	2018
<u>Western mugwort</u>	Artemisia ludoviciana		T	S1	G5	1	1985
<u>Whiskered sunflower</u>	Helianthus hirsutus		SC	S3	G5	3	2018
<u>White gentian</u>	Gentiana alba		E	S1	G4	5	1981
<u>White lady slipper</u>	Cypripedium candidum		T	S2	G4	20	2016
<u>White or prairie false indigo</u>	Baptisia lactea		SC	S3	G4Q	2	2015
<u>Whorled pogonia</u>	Isotria verticillata		T	S2	G5	1	1990
<u>Wild rice</u>	Zizania aquatica		T	S2S3	G5	1	1918
<u>Willow aster</u>	Symphotrichum praealtum		SC	S3	G5	3	2004
<u>Woodland goosefoot</u>	Chenopodium standleyanum		SC	SNR	G5	1	1959
<b>REPTILE</b>							
<u>Blanding's turtle</u>	Emydoidea blandingii		SC	S2S3	G4	21	2019
<u>Butler's garter snake</u>	Thamnophis butleri		SC	S4	G4	1	2016
<u>Eastern box turtle</u>	Terrapene carolina carolina		SC	S2S3	G5T5	6	2001
<u>Eastern massasauga</u>	Sistrurus catenatus	T	SC	S3	G3	17	2018
<u>Gray ratsnake</u>	Pantherophis spiloides		SC	S2S3	G4G5	1	1996
<u>Kirtland's snake</u>	Clonophis kirtlandii		E	S1	G2	4	1960

<u>Queen snake</u>	Regina septemvittata		SC	S2S3	G5	2	2017
<u>Spotted turtle</u>	Clemmys guttata		T	S2	G5	6	2016

### Explanation of codes

#### Federal:

E	Listed Endangered
T	Listed Threatened

#### State:

E	Endangered
T	Threatened
SC	Special Concern (no legal protections)

#### State Rank:

S1	Critically imperiled in the state because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extirpation in the state.
S2	Imperiled in state because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extirpation from the state.
S3	Rare or uncommon in state (on the order of 21 to 100 occurrences).
S4	Apparently secure in state, with many occurrences.
S5	Demonstrably secure in state and essentially ineradicable under present conditions.
SA	Accidental in state, including species (usually birds or butterflies) recorded once or twice or only at very great intervals, hundreds or even thousands of miles outside their usual range.
SE	An exotic established in the state; may be native elsewhere in North America (e.g. house finch or catalpa in eastern states).
SH	Of historical occurrence in state and suspected to be still extant.
SN	Regularly occurring, usually migratory and typically nonbreeding species.
SR	Reported from state, but without persuasive documentation which would provide a basis for either accepting or rejecting the report.
SRF	Reported falsely (in error) from state but this error persisting in the literature.
SU	Possibly in peril in state, but status uncertain; need more information.
SX	Apparently extirpated from state.

#### Global Ranking:

G1	Critically imperiled globally because of extreme rarity (5 or fewer occurrences range-wide or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.
G2	Imperiled globally because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range.
G3	Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g. a single western state, a physiographic region in the East) or because of other factor(s) making it vulnerable to extinction throughout its range; in terms of occurrences, in the range of 21 to 100.
G4	Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
G5	Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
GH	Of historical occurrence throughout its range, i.e. formerly part of the established biota, with the expectation that it may be rediscovered (e.g. Bachman's Warbler).
GU	Possibly in peril range-wide, but status uncertain; need more information.
GX	Believed to be extinct throughout its range (e.g. Passenger Pigeon) with virtually no likelihood that it will be rediscovered.