

Upper Fox River Watershed

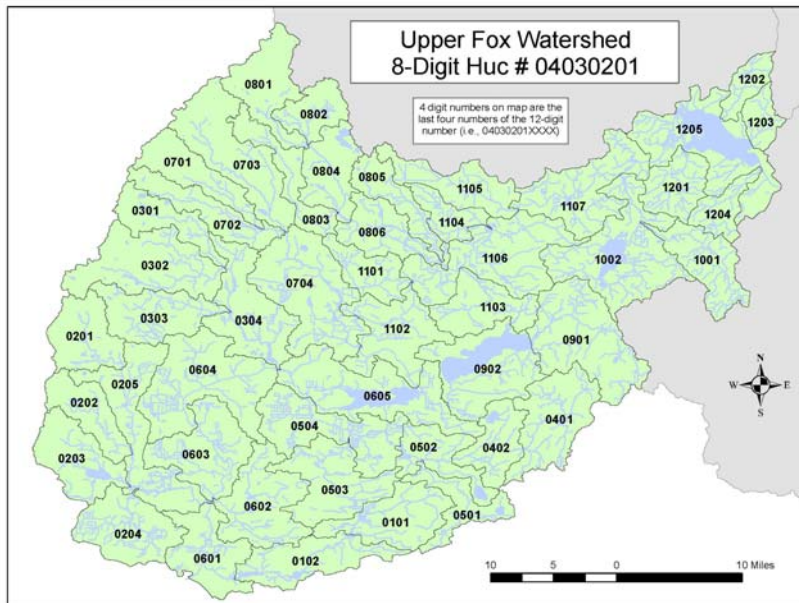
Hydrologic Unit Code: 04030201

For more information, see USEPA "Surf Your Watershed" website at cfpub.epa.gov/surf/huc.cfm?huc_code=04030201

The Upper Fox River basin is part of the Wisconsin DNR's Upper Fox River basin management area, which also includes the Lake Winnebago watershed. For more information, see the Wisconsin Department of Natural Resources' "Wisconsin's Basins" website at dnr.wi.gov/org/gmu/gmu.htm

Watershed Groups

- Fox River Watch — www.foxriverwatch.com
- Fox Wolf Watershed Alliance — www.fwwa.org
- Lake Michigan Forum — www.lkmichiganforum.org
- Rivers Alliance of Wisconsin — www.wisconsinrivers.org
- Rob McLennan, the Upper Fox River Water Basin Team Leader — Robin.McLennan@dnr.state.wi.us
- Fox-Wolf Basins, The University of Wisconsin-Extension — basineducation.uwex.edu/foxwolf

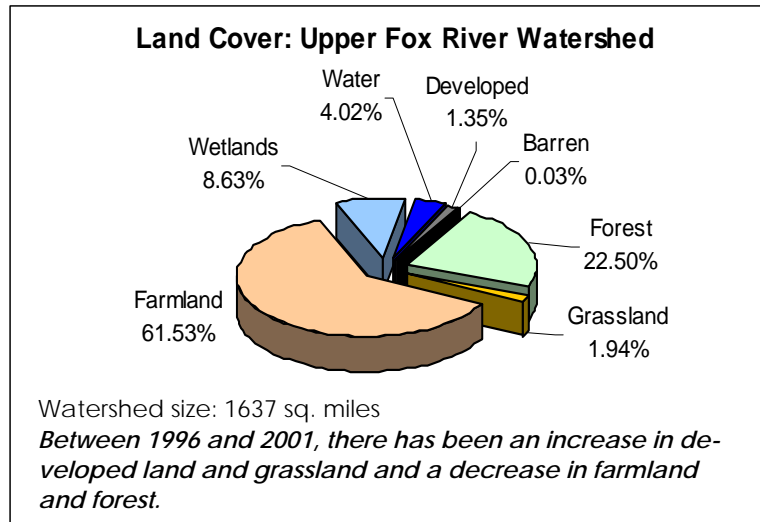
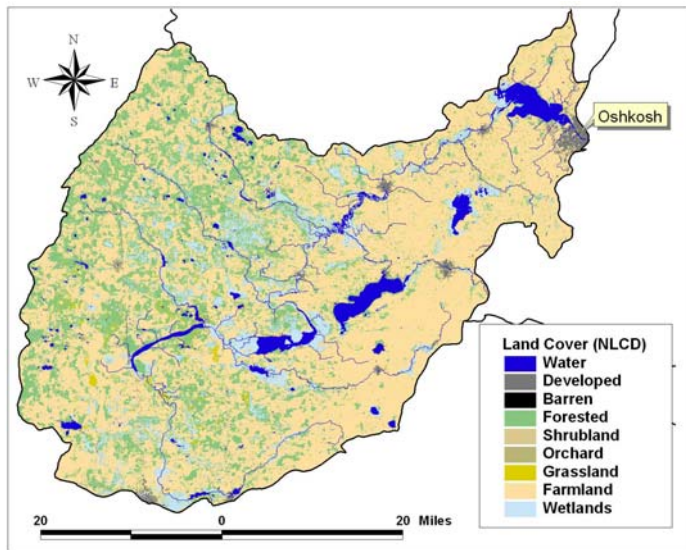


Watershed Overview / Ecology / Biodiversity

- Numerous endangered, threatened and otherwise rare species exist in the basin, including the threatened White Lady's Slipper, a species that needs fens and calcareous wet prairies, and Forster's Tern, which needs large marshes, estuaries and lake islands.
- Over 8% of the basin area is wetland greater than 40 acres in size, accounting for 145,428 acres. The total wetland area is actually much greater, as mapping identifies wetlands as small as 2 acres in size.
- There are over 55,678 acres of major public lands in the Upper Fox management basin including 51,311 acres of state wildlife, fisheries and park lands (not including the 11 state natural areas in the basin) and 4,367 acres of U.S. Fish and Wildlife Service wildlife refuge and waterfowl production acres.
- The Basin includes the Central Sand Ridges, Southeast Glacial Plains, and a small portion of the Central Sand Plains Ecological Landscapes.
- Most of the basin's cold water trout streams are located in the western portion of the basin near the Sandy Ridges ecosystem.

Subwatersheds of the Upper Fox River Watershed

0101 Sand Spring Creek-Fox River	0704 Mecan River
0102 Swan Lake-Fox River	0801 West Branch White River
0201 Neenah Lake-Neenah Creek	0802 Soules Creek-White River
0202 Green Creek	0803 Lunch Creek
0203 South Branch Neenah Creek	0804 Little Lunch Creek-White River
0204 Big Slough	0805 Sucker Creek
0205 Neenah Creek	0806 White River
0301 Tagatz Creek	0901 Silver Creek
0302 Westfield Creek	0902 Big Green Lake
0303 Klawitter Creek	1001 Eightmile Creek
0304 Montello River	1002 Rush Creek
0401 Headwaters Grand River	1101 Black Creek
0402 Little Green Lake-Grand River	1102 Mill Race-Fox River
0501 Lake Emily	1103 Puchyan River
0502 Grand Lake-Grand River	1104 Town Ditch
0503 Belle Fountain Creek	1105 Barnes Creek
0504 Grand River	1106 City of Berlin-Fox River
0601 Portage Canal-Fox River	1107 Hogars Bayou-Fox River
0602 French Creek	1201 Spring Brook
0603 Good Earth Creek-Fox River	1202 Daggetts Creek
0604 Buffalo Lake-Fox River	1203 Brooks Cemetary
0605 Puckaway Lake-Fox River	1204 Sawyer Creek
0701 Weddle Creek	1205 Lake Butte des Mortes-Fox River
0702 Chafee Creek	
0703 Little Pine Creek-Mecan River	



Warm water rivers, streams and lakes support various game and non- game species including large and small mouth bass, walleye, northern pike, catfish and sturgeon.

- Common woodland wildlife include White- tailed Deer, Turkey, Ruffed Grouse; upland/ grassland wildlife includes Ring-necked Pheasant, non- game songbirds (Vesper Sparrow, Bobolink, Meadowlark); grassland nesting waterfowl include Mallards and Blue- winged Teal. Wetland species include various waterfowl, amphibians and reptiles.
- Oak- hickory is the most common forest type and the tree species with the greatest volume in the Upper Fox Basin is White Oak followed by Black and Pin Oak, White and Red Pine, Aspen and Soft Maple.
- The Nature Conservancy identified Eightmile-Waukau Creek as a critical ecological system .
- The Upper Fox watershed is home to the state’s largest Wetland Reserve Restoration Program (WRP). Duffy’s Marsh is a 1,732 acre wetland restoration project in Marquette County.

Watershed Activities

- Several dams have been removed, with fish species returning and the population of exotic species declining.
- The Upper Fox Basin Partnership identified three major priorities affecting the natural resources of the basin and the uses of those resources by the public: wetland filling/ loss; habitat loss and fragmentation; and nutrient loading/ Nonpoint Source Pollution
- Other environmental concerns include:
 - ◊ Water quality problems from contaminated sediments, runoff in urban and agricultural areas, floodplain development and overuse of groundwater supplies.
 - ◊ Riparian/wetland, woodland, and grassland habitat loss, deterioration, and fragmentation from rapid development and conversion of rural lands.
 - ◊ Grassland restoration is a major initiative, with virtually the entire historic prairie, sedge meadows and oak savannas having been converted to agriculture.
 - ◊ Exotic species such as plant species such as reed canary grass, purple loosestrife, buckthorn, garlic mustard, and Eurasian water milfoil are a continuing problem. Zebra mussels and rusty crayfish are spreading to basin waterways, disrupting stream and lake ecology.
 - ◊ Monitoring of wildlife populations, water quality, and ecosystem function are needed to understand the status and trends of resources.

Data Sources. Land cover map and percentages: National Land Cover database, 1992 (edc.usgs.gov/products/landcover/nlcd.html); Land use change: NOAA Coastal Change Analysis Program, 1996 and 2001 (www.csc.noaa.gov/crs/lca/ccap.html); Total Maximum Daily Load (TMDL) Impaired Waters: Surf Your Watershed (www.epa.gov/surf)

Impaired 303(d) Waters

Waterbody Name	Impairment
Big Green Lake	PCB Fish Consumption Advisory
Buffalo Lake	Mercury Fish Consumption Advisory
Fox River (From Portage North To, But Not Including Buffalo Lake)	PCB Fish Consumption Advisory
Fox River (Swan Lake Downstream to Portage)	PCB Fish Consumption Advisory
Fox River At Buffalo Lake	PCB Fish Consumption Advisory
Fox River near immediately Upstream of Lake Winnebago	Aquatic Toxicity, Coal Tar
Fox River, Oshkosh	Aquatic Toxicity
Hill Creek	Degraded Habitat, Sediment
Lake Butte Des Morts	PCB Fish Consumption Advisory, Dissolved Oxygen, Sediment, Phosphorous, Mercury Fish Consumption Advisory, Eutrophication
Little Green Lake	Degraded Habitat, Dissolved Oxygen, Eutrophication, PH, Phosphorous
Mason Lake	Eutrophication, PH, Phosphorous
Park Lake	Eutrophication, Phosphorous, Sediment
Peppermill Creek	Degraded Habitat, Sediment, Temperature
Poygan Lake	Dissolved Oxygen, PCB Fish Consumption Advisory, Phosphorous, Sediment
Roy Creek (All)	Degraded Habitat, Sediment
Silver Creek (2)	Degraded Habitat, Sediment, Temperature
Silver Lake (Big) , Waushara Co.	Aquatic Toxicity
Un. Trib To Mason Lake	Loss Of Instream Habitat, Sediment
Wurchs Creek	Loss Of Instream Habitat, Sediment