Surface Water Data Viewer (SWDV) Update, July 2008

The Surface Water Data Viewer is the Wisconsin Water Program's vehicle for sharing GIS and related data with others. These datasets have been reviewed and documented to provide you with the best possible information we have available. Please note the significant updates and new layers now available.

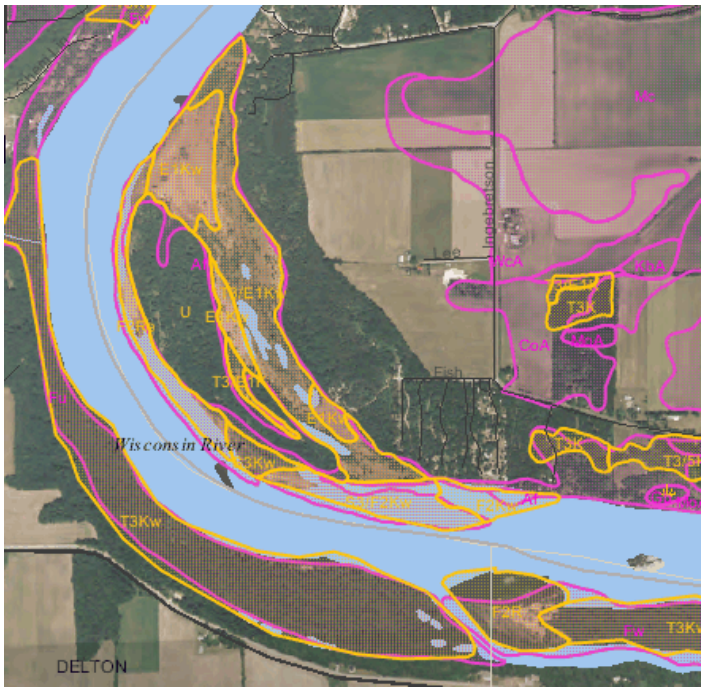
For questions or comments, please email: **Matt Rehwald in the Bureau of Watershed Management** (matt.rehwald@wisconsin.gov).

New Wetlands & Wetland Indicators Theme

http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=SurfaceWaterViewer.wetlands

The Wetlands & Wetland Indicators Theme brings together three layers – the Wisconsin Wetland Inventory, Wetland Indicators, and NAIP 2005 color air photos for easy viewing. The Wetland Indicators layer shows soils mapped by the USDA Natural Resources Conservation Service in the drainage classes of somewhat poorly, poorly and very poorly drained soils. Soils mapped within these drainage classes are soil types typically found within areas designated as wetlands.

To access the W&WI theme, click on the link above, or click on the Themes tab in the viewer and then select Wetlands & Wetland Indicators from the menu.



New Folders & Datasets

- **Inland Water Resources**
  - **Federal Hydrologic Units (HUCs)** *(new!)*
  - **Waterbody Details** *(new!)*
- **Aquatic Invasives**
  - **Milfoil Hybrid** *(new!)*
  - **Curly Leaf Pondweed** *(new!)*
  - **Rusty Crayfish** *(new!)*
  - **Banded Mystery Snail** *(new!)*
  - **Chinese Mystery Snail** *(new!)*
  - **Japanese Mystery Snail** *(new!)*
  - **Freshwater Jellyfish** *(new!)*
  - **Rainbow Smelt** *(new!)*
  - **Spiny Waterflea** *(new!)*
- **Wetlands, Plants & Habitat**
  - **Wetland Indicators** *(new!)*
  - **NRCS Wisconsin Soils** *(new!)*
- **Transportation**
  - **Major Highways** (new colors and symbols)

Please note that not all datasets are complete. **Blue hyperlinks** take you to *data descriptions* that provide information on completeness and disclaimers.

Enhanced Analytical Functionality

All layers in the SWDV are now selectable. This will allow you to do spatial queries and do basic GIS analysis, such as buffer and intersect functions. For more information on how to use the select functions, click on the link below.

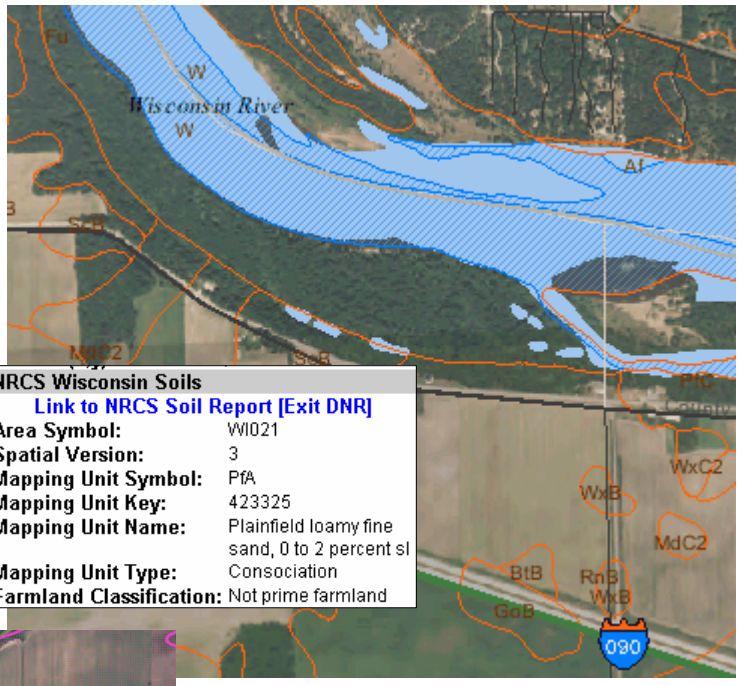
http://dnr.wi.gov/org/water/SWDV/help/documents/SWDV_Viewer_Select_Tools.pdf

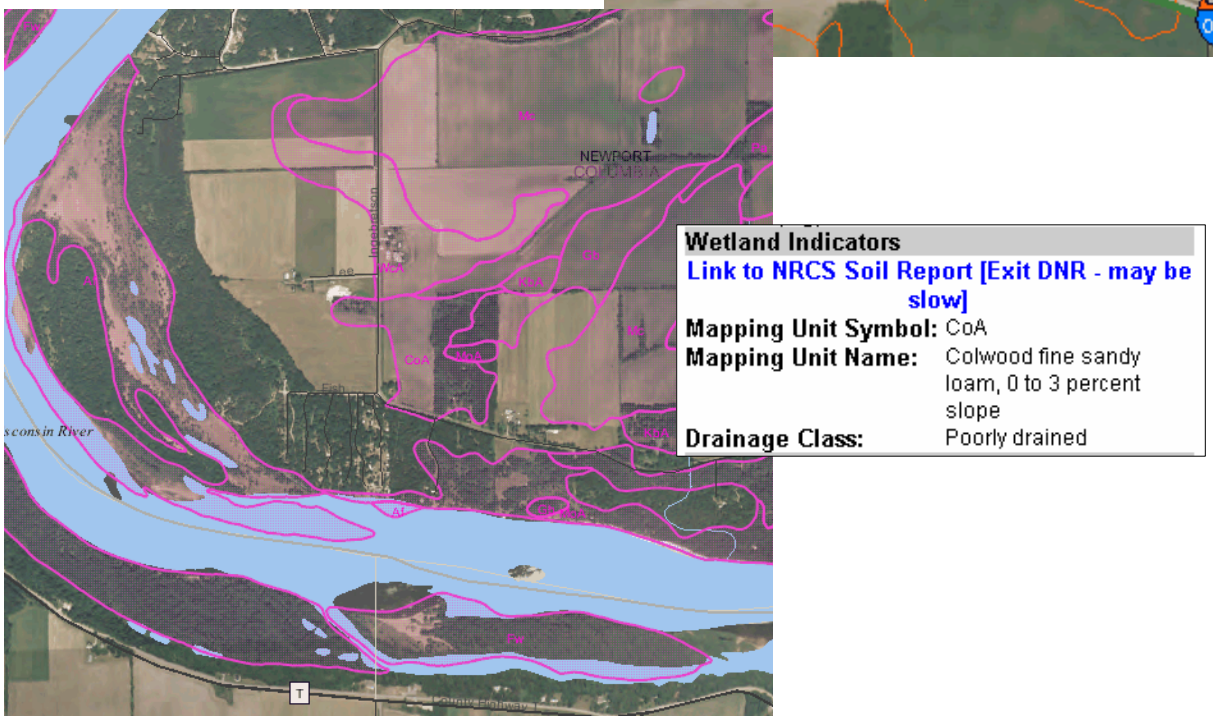
New Datasets of Special Note:

Wisconsin Soils and Wetland Indicators

Soil map units from the National Resources Conservation Service (NRCS) are now available on the SWDV for the entire state. WDNR's soil data attributes consist of basic items such as mapping unit symbol, area symbol, and soil name. However, you can link to the full report of attributes for a particular mapping unit generated by NRCS by clicking on the link in the identify report.

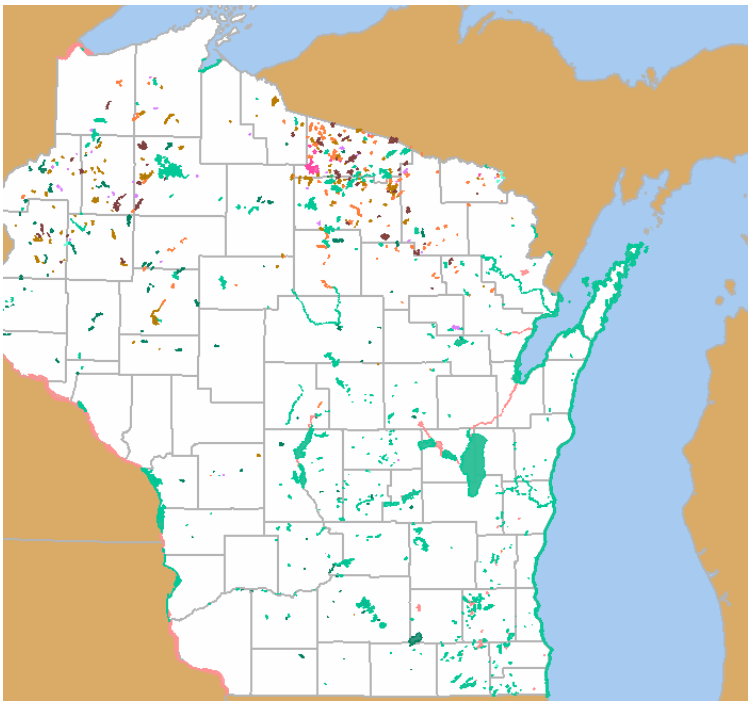
WDNR has defined Wetland Indicators as soils that are somewhat poorly drained, poorly drained, or very poorly drained. Wetlands may not be present in all areas shown as wetland indicator soils, but the soil areas shown are soils that are commonly found in mapped wetlands.





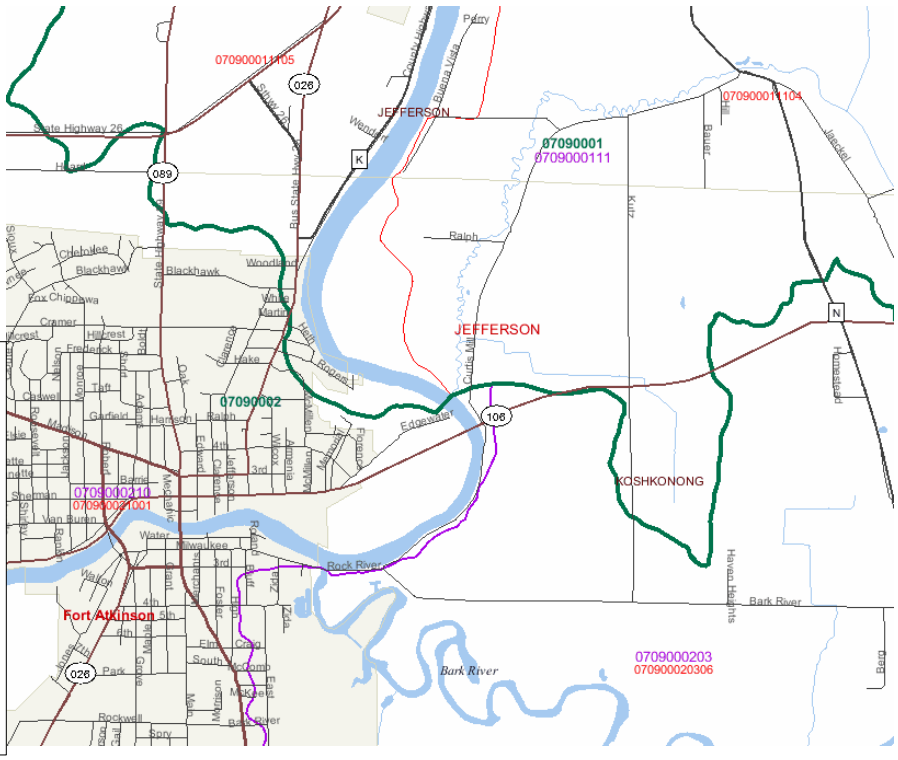
New Aquatic Invasive Species layers

In addition to Eurasian Water Milfoil and Zebra Mussels, infestation data is now available for nine additional aquatic invasive species.



Federal Hydrologic Units (HUCs)

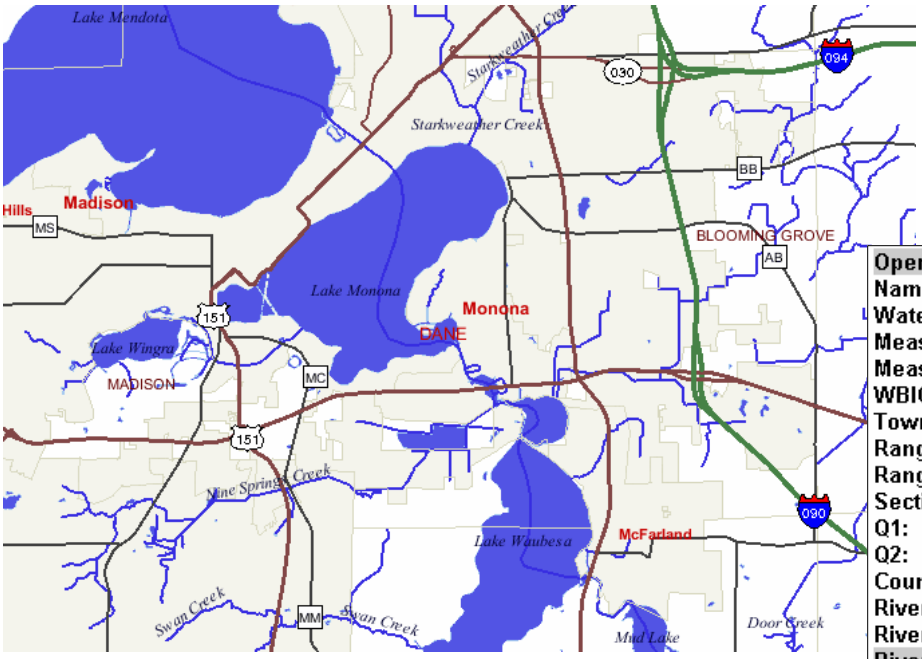
The national Watershed Boundary Dataset (WBD) delineations, called hydrologic units or "HUCs", is now available on the SWDV. 8, 10, and 12-digit HUCs, corresponding to the sub-basin, watershed, and sub-watershed levels are included.



12-digit HUCs (Subwatersheds)	
Hydrologic Unit Code (HUC):	070900021001
HUC Name:	Fort Atkinson-Rock River
HUC Type:	S
Hydro Modifications:	TF
States Spanned:	WI
HUC Area (Acres):	26232
Noncontributing Area (Acres):	0
10 digit HUC:	0709000210
10 digit HUC Name:	Lake Koshkonong-Rock River
10 digit HUC Hydro Modifications:	NM
10 digit HUC Type:	S
8 digit HUC Name:	07090002
Next 12 digit HUC downstream:	070900021003
Next 10 digit HUC downstream:	0709000213

Waterbody Details

This layer contains information on waterbodies from WDNR's Register of Waterbodies datasystem. Details such as name, length/size, size source, and Waterbody Identification Code (WBIC) are available.



Open Water Details	
Name:	Lake Monona
Waterbody Size:	3358.93
Measurement Units:	ACRES
Measurement Source:	24K HYDRO
WBIC:	804600
Township:	7
Range:	10
Range Direction:	E
Section:	20
Q1:	SW
Q2:	NE
County:	Dane
River System WBIC:	798300
River System Name:	Yahara River
River Details	
Name:	Yahara River
Waterbody Size:	66.56
Measurement Units:	MILES
Measurement Source:	24K HYDRO
WBIC:	798300
Township at Mouth:	4
Range at Mouth:	12
Range Direction:	E
Section at Mouth:	19
Q1 at Mouth:	SW
Q2 at Mouth:	NE
County at Mouth:	Rock