

The Surface Water Data Viewer (SWDV) Basic User Guide

September 2007

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Wisconsin Department of Natural Resources
Bureau of Watershed Management
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Using the Surface Water Data Viewer (SWDV)

Introduction

The Surface Water Data Viewer database (**SWDV**) displays data from the State's monitoring and assessment databases that can be used for resource management and watershed planning at local, regional, or State levels such as:

- Waterbody physical characteristics
- Water quality assessments and monitoring sites
- Aquatic invasive species
- Wetlands, plants, and habitat
- Grant locations
- Fisheries management waters

The SWDV contains a variety of mapping tools for users to create customized maps of selected cultural, resource, administrative, land, and environmental features. Digital air photo or topographic map layers can also be added. This user guide explains how to use the features of the SWDV database for watershed planning activities.

The SWDV uses the 1991 datum adjustment to NAD 1983. It is the DNR's standard datum, and the Wisconsin Transverse Mercator (WTM) projection (which the viewer uses) is based off of it. "Datum" refers to a geometric model called a spheroid that approximates the shape of the earth. A sphere is perfectly round, but a spheroid has one axis that is longer than another.

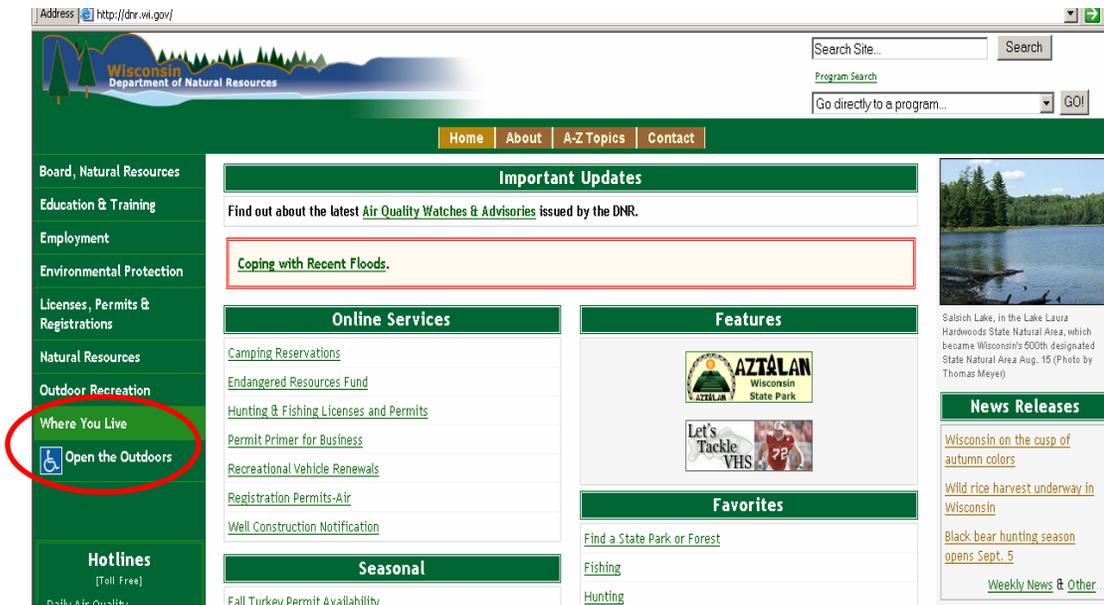
The SWDV uses the ArcIMS (Internet Map Server). WDNR uses Moximedia's Internet Mapping Framework as its viewer. IMF is a java-based "thin client" that can run any number of different mapping sites, with a combination of shared program files and unique configuration files.

See the Appendixes for descriptions of the basic tab functions, basic tool buttons, advanced tool buttons, and map layers of the SWDV.

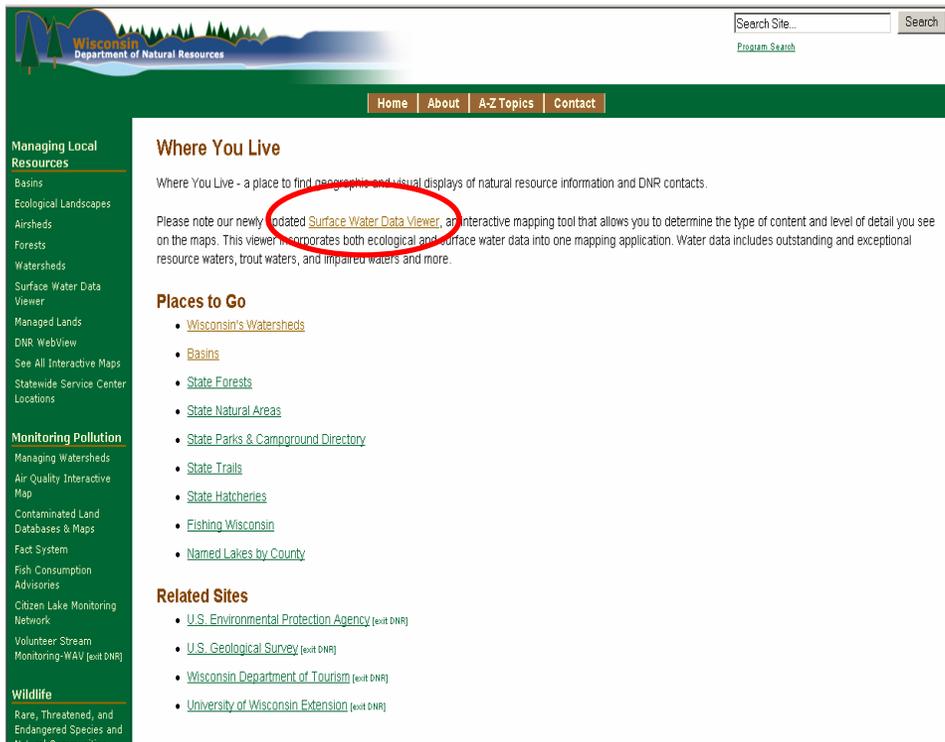
For questions or comments on the SWDV, please email: Matt Rehwald in the Bureau of Watershed Management:
Matt.Rehwald@wisconsin.gov

Access the Surface Water Data Viewer

Step 1: Type in this URL: <http://dnr.wi.gov/>. Click on the “Where You Live” link.



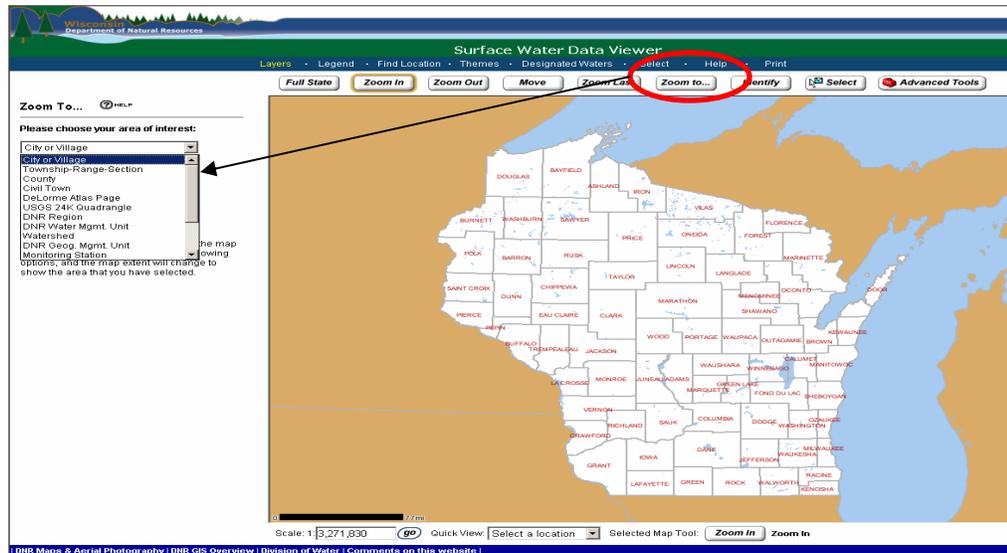
Step 2: Click on the “Surface Water Data Viewer” link.



Navigate to a Location/Attribute

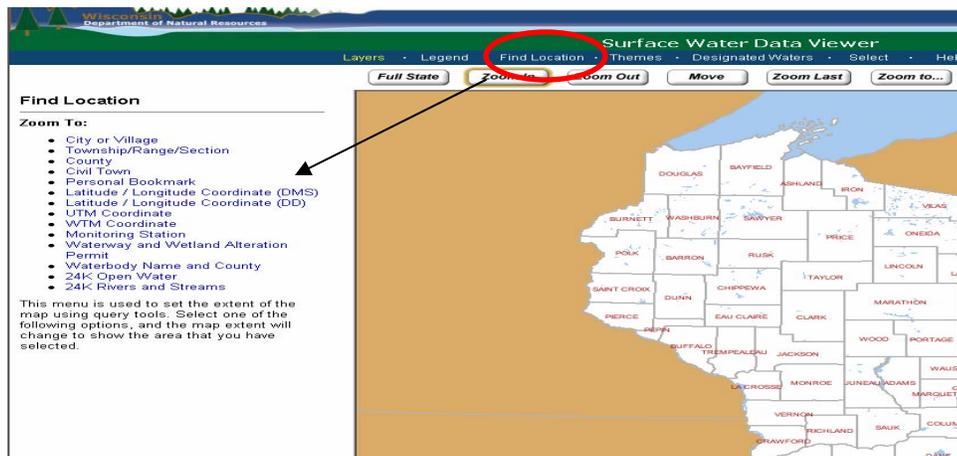
- **“Zoom to” a Place Button**

Click on the **“Zoom To”** button. A drop-down menu will appear on the left. Click on the category for your search. You can zoom to a variety of watershed geographical locations or to a specific waterbody by its name or WBIC number. *NOTE: If you want to zoom to a location in an unincorporated area, choose the **“Civil Town”** option.* Use the **“Zoom In”** and **“Zoom Out”** buttons if needed to refine your search location.



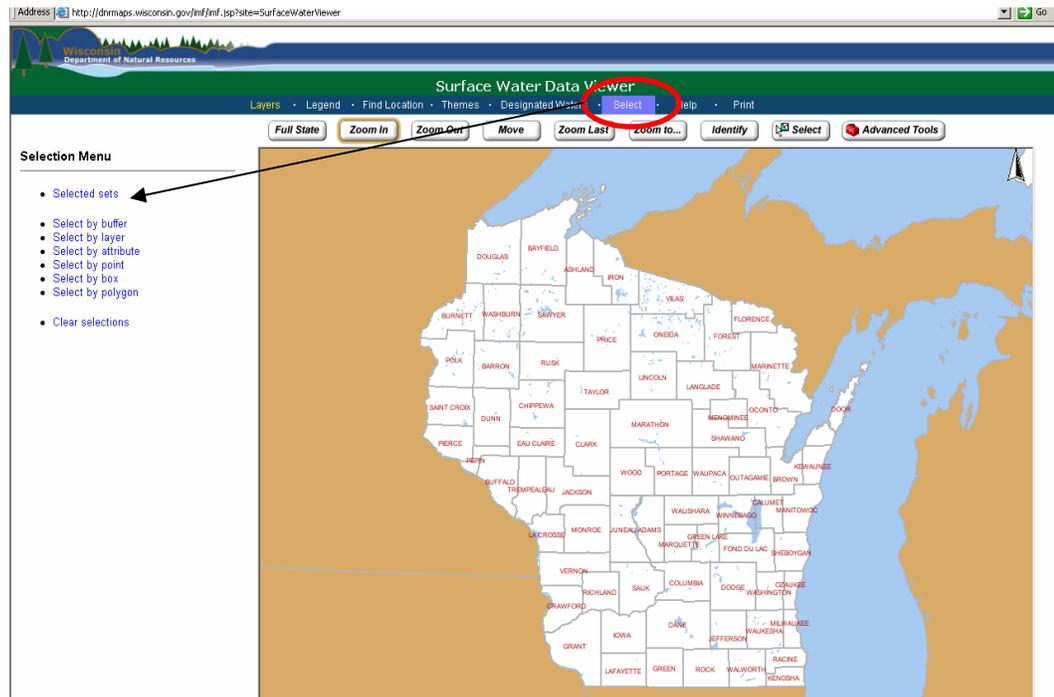
- **“Find Location” Tab**

Click on the **“Find Location”** tab and select a search category from the **“Find Location”** list in the left-hand column. Type in the additional information requested to refine your search.

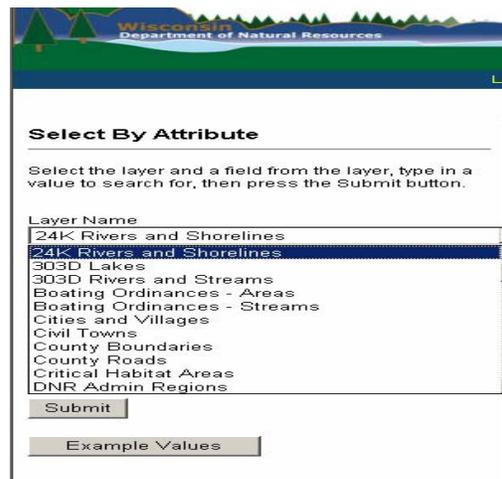


- **“Select By Attribute” Search**

Click on the **“Select”** tab. Choose one of options in the **“Selection Menu.”**

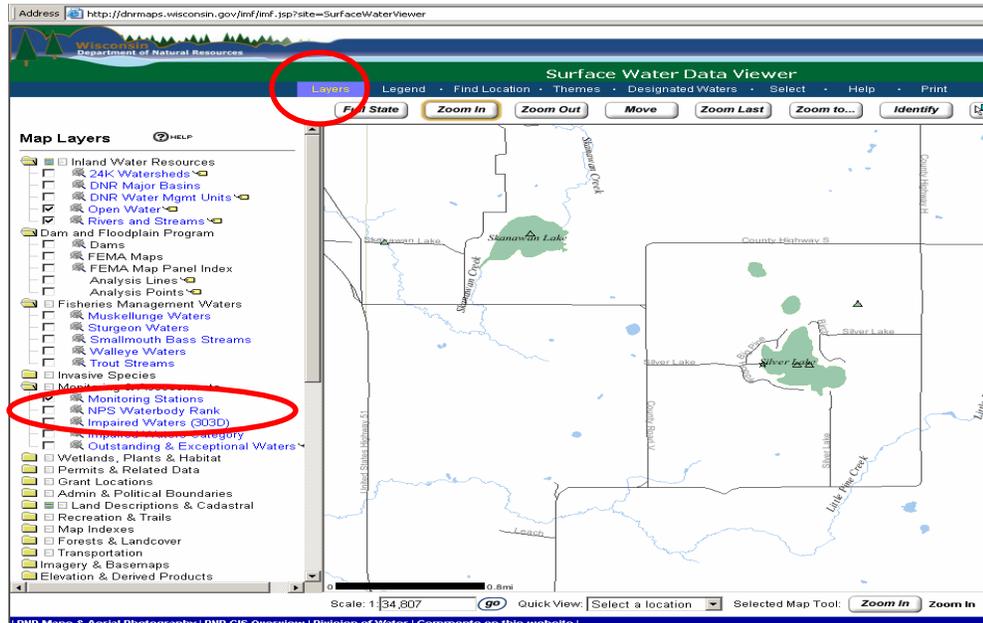


The **“Select Attribute”** drop-down menu allows you to select information according to the data layer. Type in the additional information requested and then click on the **“Submit”** button.



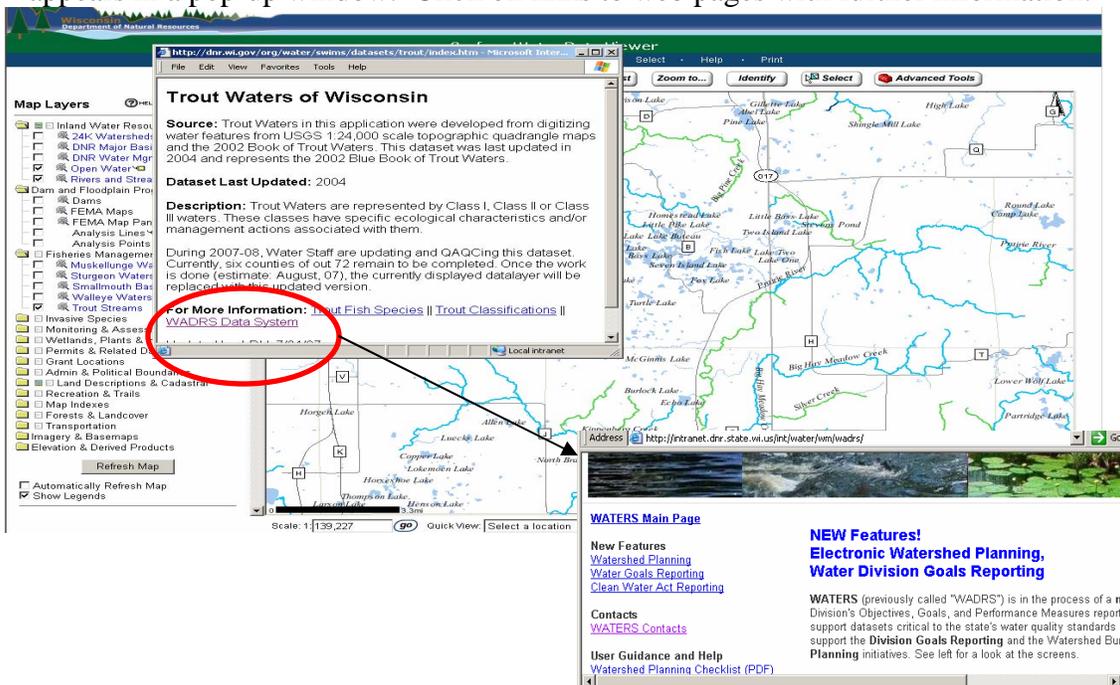
View Map Layers

Click on the **“Layers”** tab to display the layers of information you can add to a map. Click on a folder to open the map layer options. Check a box to display a map layer of information. NOTE: See Appendix C for a description of the **“Map Layer”** datasets.



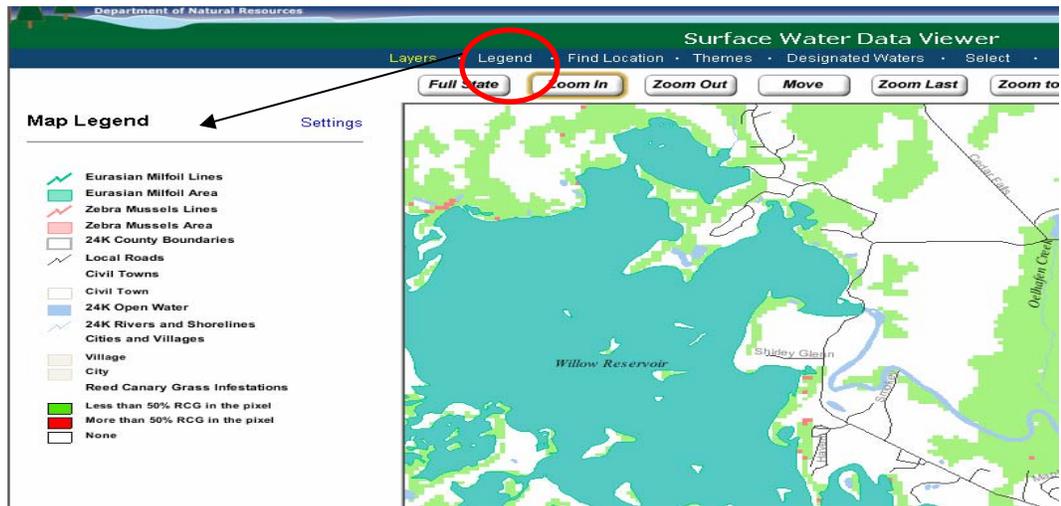
View Dataset Information

Click on the **“Map Layer”** dataset in blue type to read information on the dataset that appears in a pop-up window. Click on links to web pages with further information.



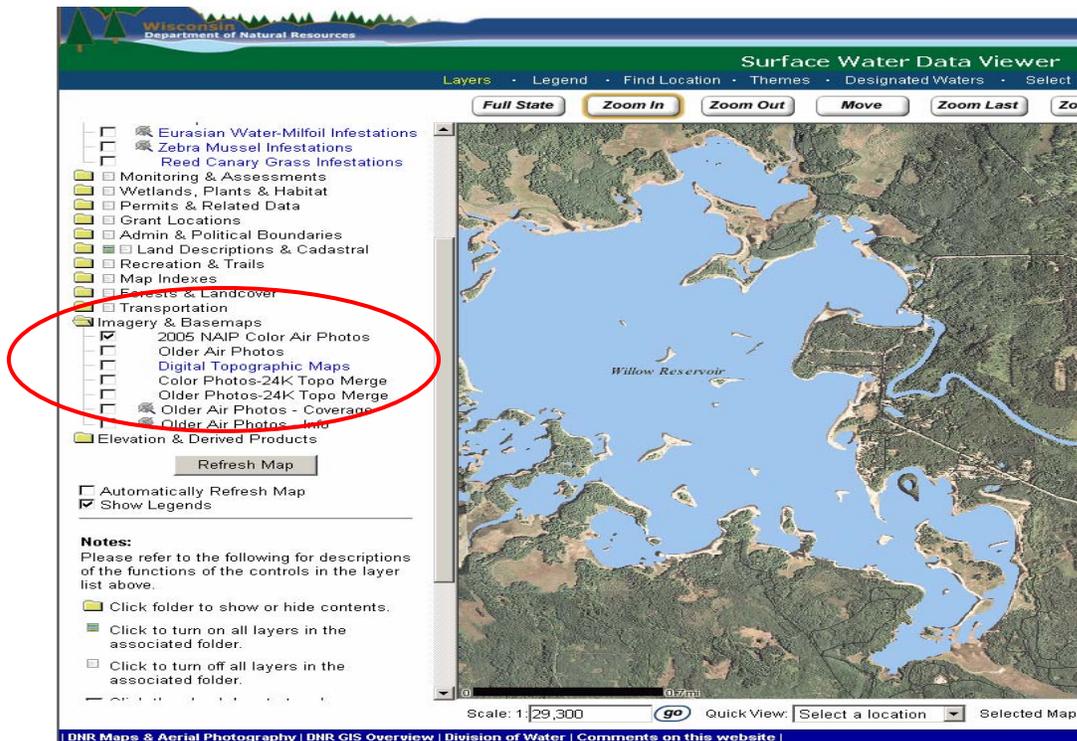
Display Legend

Click on the “**Legend**” tab to display the map legend.



Add Imagery and Basemap Layers

Open additional folders to select other “layers” of information you wish to add to your map. Scroll to the end of the “**Map Layers**” column to the “**Imagery & Basemaps**” folder to add topographic or air photo layers if desired.



Identify Results

Click on the “**Identify**” button and then click on a location on your map with the layer(s) you have selected. In this example, grant lake locations are highlighted. Information regarding that map layer location displays in the left-hand column. Click on the “**More Detail**” link in blue to find additional information related to the grant.

Wisconsin Department of Natural Resources
Surface Water Data Viewer

Layers Legend Find Location Themes Designated Waters Select Help Print

Full State Zoom-In Zoom Out Move Zoom Last Zoom to... Identify Select

Identify Results

Coordinate Position
Lat/Lon: 45°56'N, 91°24'W
Decimal Lon/Lat: -91.404854, 45.940444
UTM 15N: 623848, 508867
WTM91 (x,y): 411102, 608389

Lake Grant Areas

More Detail
Grant Type: LAKE_GRANT
Grant Name: LPL-1093-06
Start Date: Apr 1, 2006
Status: Active
Description: Grindstone Lake Macrophyte Study
Category: Large Scale Lake Planning Grant
End Date: Dec 31, 2007

More Detail
Grant Type: LAKE_GRANT
Grant Name: LPL-549
Start Date: Apr 1, 1998
Status: Complete
Description: Grindstone Lake-Phase 1 Lake Mgmt Planning
Category: Large Scale Lake Planning Grant
End Date: Dec 31, 2000

More Detail
Grant Type: LAKE_GRANT
Grant Name: AEPP-027-06
Start Date: Apr 1, 2006
Status: Complete
Description: Sawyer County AIS Coordinator Academic Invasives education, prevention & planning
Category: Large Scale Lake Planning Grant
End Date: Jun 30, 2007

More Detail
Grant Type: LAKE_GRANT
Grant Name: LPL-353
Start Date: Feb 13, 1996
Status: Complete
Description: Lake Classification and Ordinance Development - Phase 1

Scale: 1:406,979 go Quick View Select a location Selected Map Tool: Identify Drill Down Identify

DNR Maps & Aerial Photography | DNR CIS Overview | Division of Water | Comments on this website

Wisconsin Department of Natural Resources

Lake Classification and Ordinance Development - Phase 1

Project Description:

Sawyer County proposes to develop and implement a classification scheme for all lakes over 10 acres in the County and to recommend language to amend the County's Shoreland Zoning Ordinance to protect and improve its lakes' water quality and ecosystems. Phase 1 project activities consist of: 1. Creation of lake development policy 2. Development of a lake classification system based on the ability to accommodate development. 3. Inventory and analysis of lakes over 10 acres. 4. Public education of the project and issues and public input to goals and objectives. The Sponsor will prepare a summary report including the results of the above activities. The results of the above activities will be disseminated to the public by public meeting and local newspaper article. The sponsor will provide the Department with a paper copy and an electronic copy of the summary report.

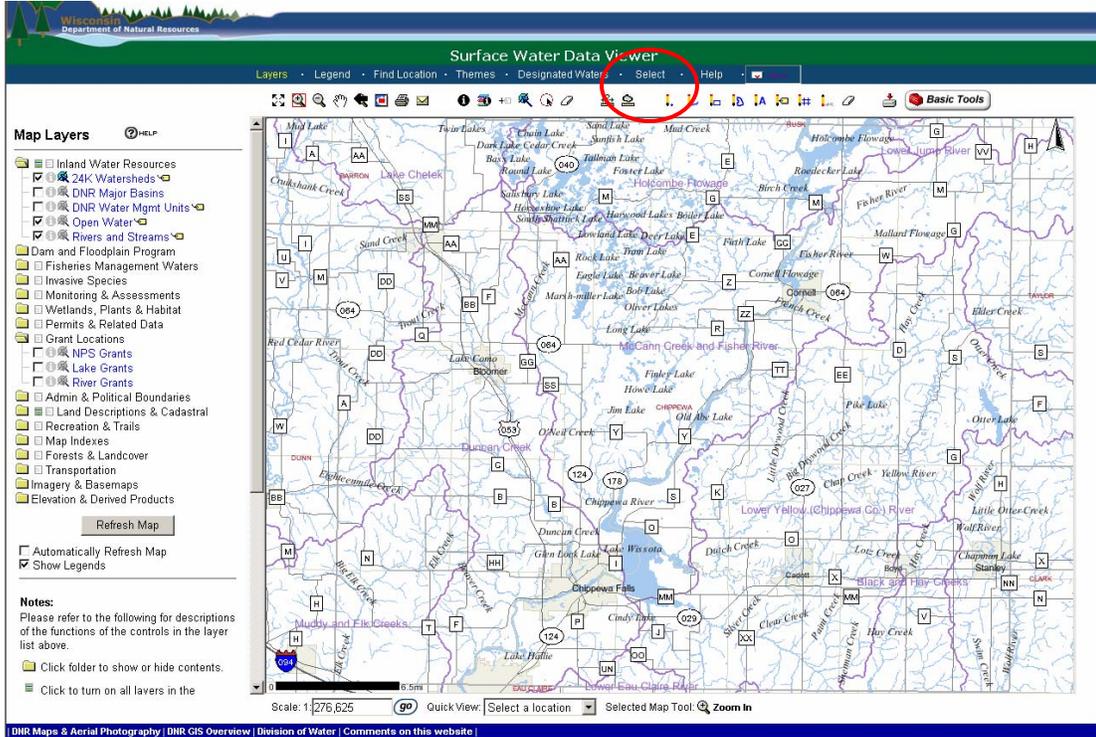
Documents:

- [LAKE CLASSIFICATION AND ORDINANCE DEVELOPMENT - PHASE 1](#)

The Official Internet site for the Wisconsin Department of Natural Resources
101 S. Webster Street . PO. Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Download Watershed Information for a County

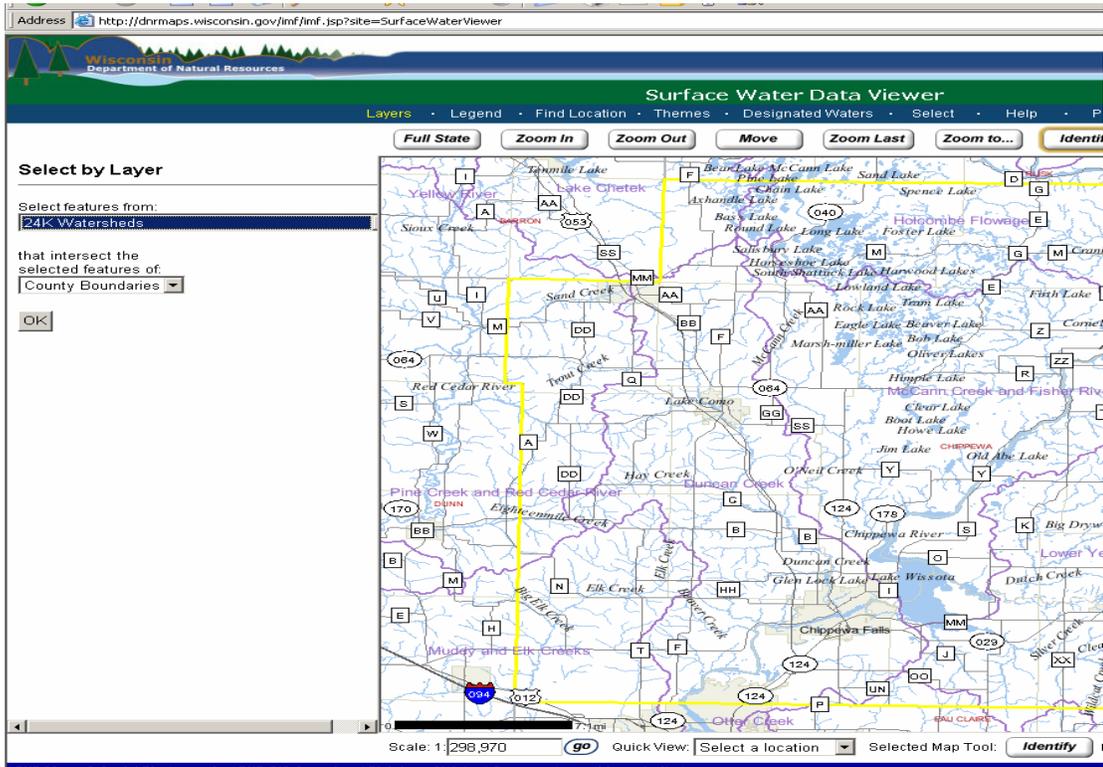
Use the “**Zoom To**” feature and select the desired County from the drop-down arrow list. Check the watershed map layer you wish to download. (In this example, Chippewa County was selected with 24K Watersheds.)



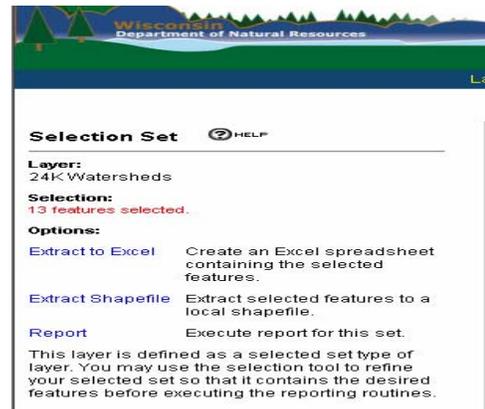
Click on the “**Select**” tab (see instructions on page 5) and choose the “**Select by Attribute**” option. Select the “**County Boundaries**” option. Select “**Name**” for field and type in the county name in “**Attribute Value**”. Click on the “**Submit**” button.

The image shows a screenshot of the 'Select By Attribute' form. The form has a title 'Select By Attribute' and a subtitle 'Select the layer and a field from the layer, type in a value to search for, then press the Submit button.' The form contains the following fields: 'Layer Name' with a dropdown menu showing 'County Boundaries'; 'Field' with a dropdown menu showing 'Name'; 'Search Operator' with a dropdown menu showing 'equals'; 'Attribute Value' with a text input field containing 'Chippewa'; a checkbox labeled 'Select within visible extent' which is unchecked; a 'Submit' button; and an 'Example Values' button.

The County line is highlighted in yellow. Click on the **“Select”** tab again and then click on the **“Select by Layer”** option. Choose one of the layer options. (In the example below the 24K Watersheds options was selected.) Click on the **“OK”** button.



Click on one of the download options in the **“Selection Set”** column. In this example, the **“Extract to Excel”** file was selected. Select how you wish to open the document in the next window. The example below shows the information on 24K watersheds in Chippewa County opened in an excel document.

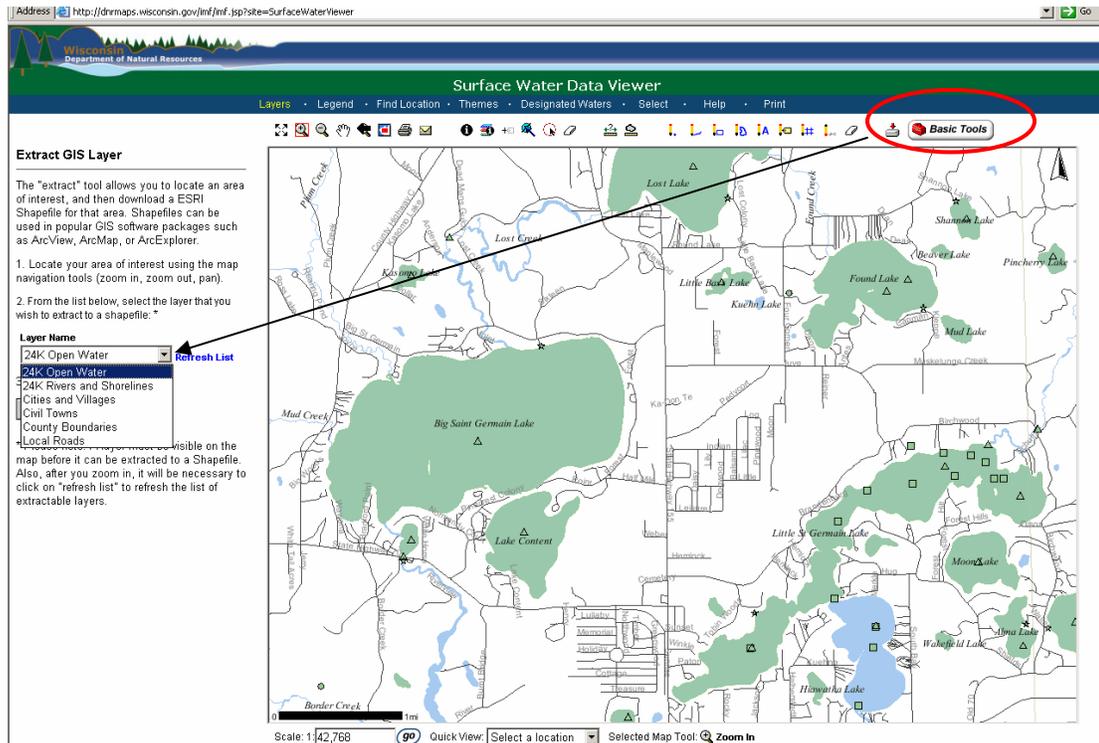


http://dnrm.wisconsin.gov/output/pdf/xls1984.xls - Microsoft Internet Explorer provided by Wisconsin DNR

24K Watersheds			
Object Area (sq meters)	Object Perimeter (meters)	SDEDNR.WT_WATERSHED_REGN_AR_24K.WSHED_NAME	
407300740.1	135140.7753	Main Creek	
549088782.5	134122.0107	Lake Chetek	
351500690	134294.2775	Lower Jump River	
624384562.2	164355.9376	Upper Yellow (Taylor Co.) River	
495829580.8	154853.0411	Duncan Creek	
441281231.3	153417.2045	Holcombe Flowage	
745624131.1	161011.7671	Pine Creek and Red Cedar River	
717026053	196381.8112	Lower Yellow (Chippewa Co.) River	
533241244	161126.3483	North Fork Eau Claire River	
805643321.2	246072.4441	McCann Creek and Fisher River	
616252959.2	158057.2125	Muddy and Elk Creeks	
560238458.5	143185.5554	Lower Eau Claire River	
414107550.1	160089.7802	Black and Hay Creeks	

Create a Shape File

A shape file is a spatial data file. You can extract certain data layers to a shape file to use in your own GIS-type software. Click on the “**Advanced Tools**” button. Then click on the “**Extract Layer to Shape File**” tool to the left of the “**Basic Tools**” button. Select one of the data layers from the “**Layers Name**” drop-down arrow list. Click on the “**Ok**” button.



Click on the “**download the zip file**” link to copy the data to your files.

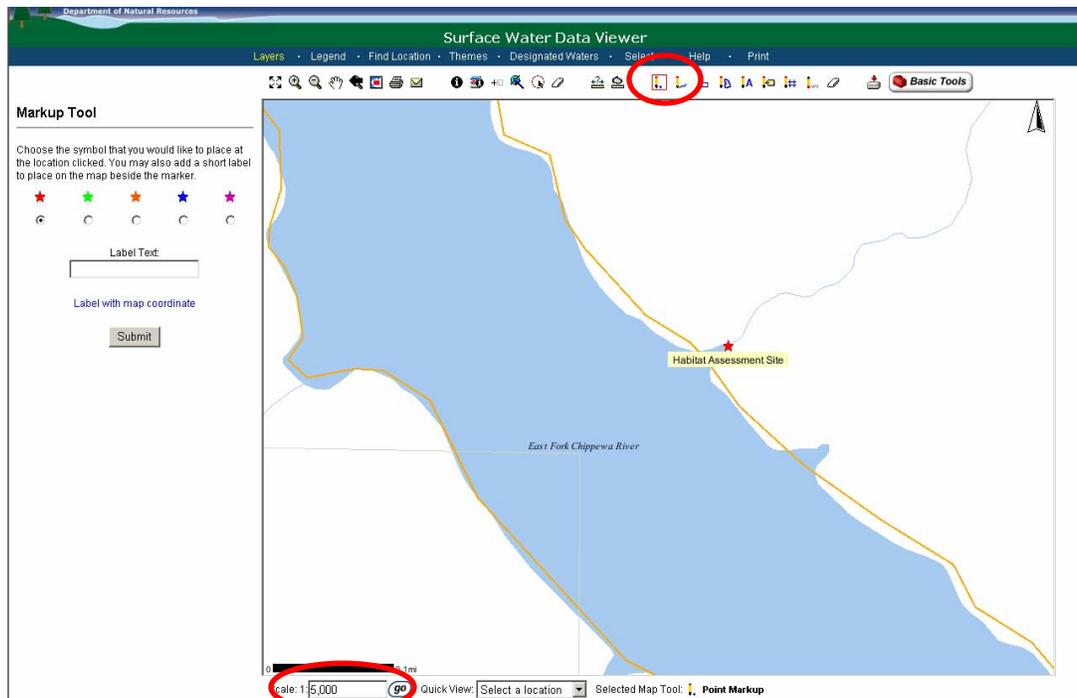


Make Maps

You can add your own labels or text to a map once you're at your final map location with the map layers turned on and desired scale. Click on the "**Advanced Tools**" button. *Note: Once you click on this button again, it will revert back to the "**Basic Tools**" button label.*

- **Label Map Point with Latitude/Longitude Coordinates**

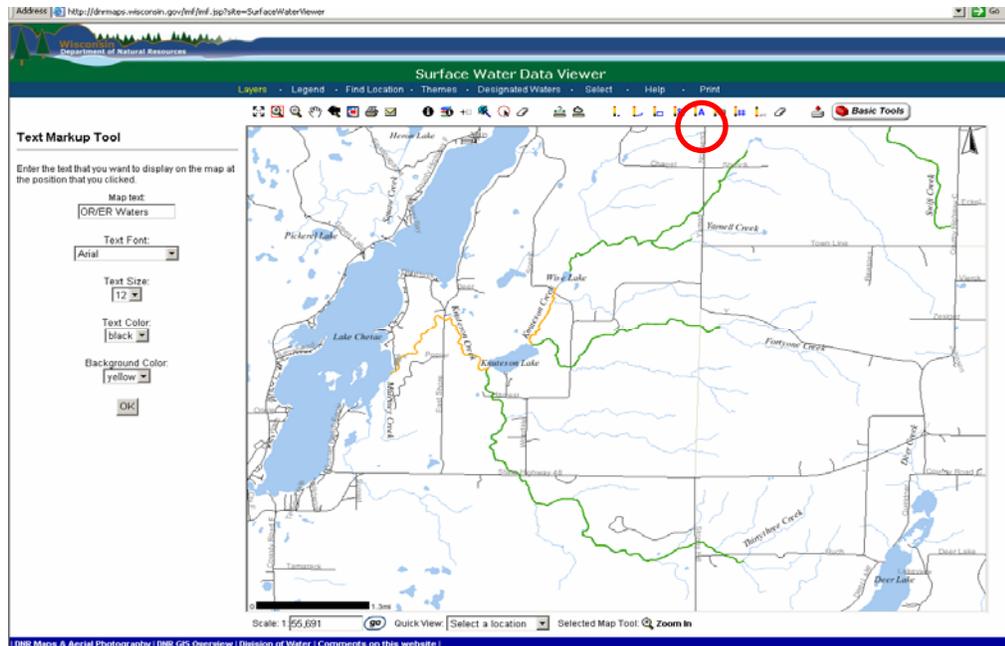
Adjust the scale of your map to 1:5000 for more accurate latitude/longitude coordinates. Click the "**pencil**" icon with the "dot". Click on the map where you want to put a "dot" (a star) and text. A box on the left will appear where you can choose the color of the star and enter some text. Click on the "**Label with map coordinate**" link to add the longitude and latitude. Click on the "**Submit**" button.



Adjust Scale here

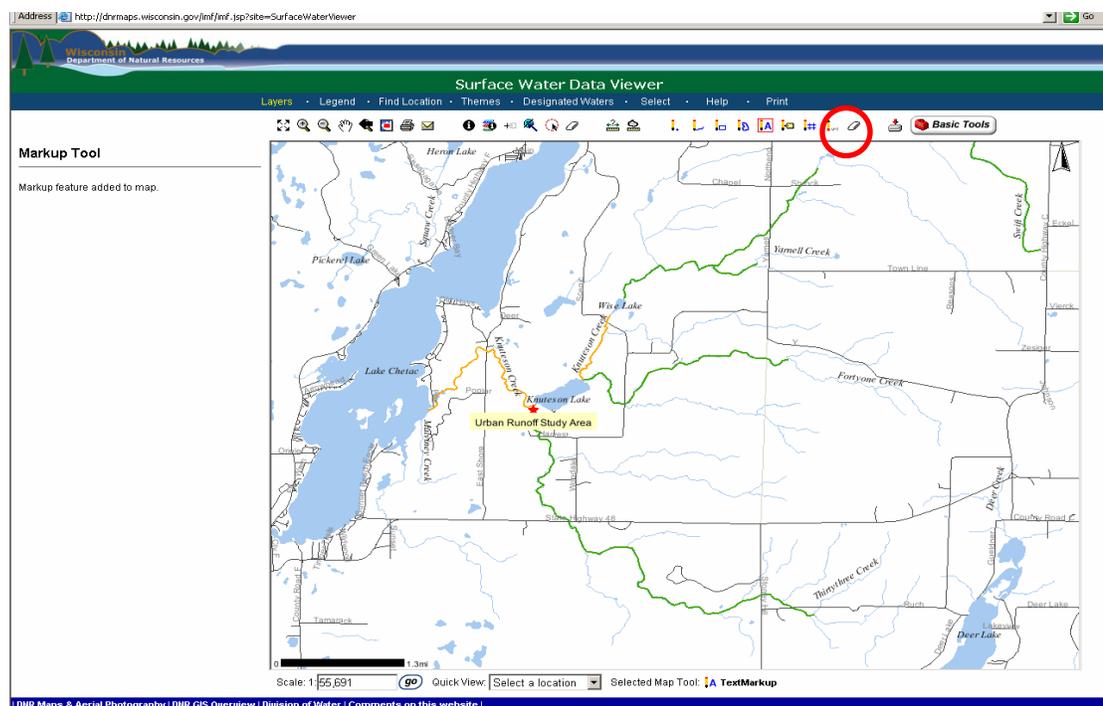
- **Add a Text Box**

Click on the “**pencil A**” icon to add a label with text. A box on the left will appear where you can add map text. Enter your text and then click on the “**OK**” button.



- **View/Edit Your Map**

View the markup features you added to the map. If your map is not correct, you can edit it. Click on the “**eraser**” icon to erase your text.



- **Print/Save a Map**

Click the “**printer**” icon or the “**Print**” tab to create a PDF Map. Use the drop-down arrows to select the desired template and scale. Make sure the other information in the text boxes on the left-hand side of the screen is correct and click on the “**OK**” button.

Click on the “**open map**” link in the “**create a PDF Map**” screen. Click on the “**printer**” icon to print your PDF map. Click on the “**disk**” icon to save the map on your computer or disk.

Wisconsin Department of Natural Resources

Create a PDF Map

Template: 8.5x11 Landscape

Scale: Current scale

Map Title: Map Created on Sep 06, 2007

Map Notes

Notes:

It may take up to a minute to create the map document. Please be patient.

The map will be centered at the same location as the map shown beside this form.

The map will be generated and shown in Adobe Acrobat (pdf) format. If you need to obtain the latest free Adobe Acrobat Reader, you may click on the link on the page that is displayed when the map is ready.

After the map has been generated, you may either save the PDF file to your computer or use the Acrobat Reader program to print out the map. When printing the map, be sure to print it at the same size that was specified above so the scale will be accurate.

Map Created on Sep 06, 2007

Legend

- Outstanding and Exceptional Waters
- Exceptional
- Outstanding
- 24K County Boundaries
- Local Roads
- Civil Towns
- Civil Town
- 24K Open Water
- 24K Rivers and Shorelines
- Cities and Villages
- Village
- City

Scale: 1:55,690

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

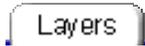
Notes: Urban Runoff Study conducted 2007 to determine phosphorus concentrations from new development along Harvest Road

Appendix A: Basic Tabs, Basic Tools

- **Basic Tabs**



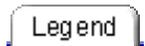
Surface Water Data Viewer (SWDV)



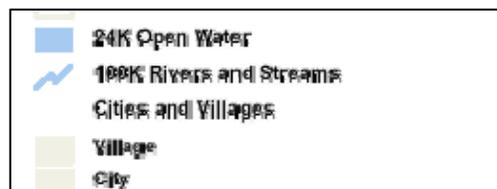
You can check and "uncheck" any layer you want. The "Layers" represent different topics, such as dams, zebra mussel infestations and impaired waters. Layers also include background images like air photos and topographic maps. You can also click the label icon to turn on and off text labels on the map.

Some especially handy layers:

- Monitoring Stations (Under Resource Management Data)
- Eurasian water-milfoil infestations (Under Resource Management Data)
- Zebra mussel infestations (Under Resource Management Data)
- Digital air photos (under Imagery & Basemaps)
- Digital topographic maps (under Imagery & Basemaps)



The Legend tab will show you what the colors & symbols mean on the map, based on the layers currently checked under the Layer tab.



Find Location

Find Location accomplishes the same thing as the Zoom To button. You can specify where you want to go (such as a City/Village) and the map will zoom there. The Find Location tab also lets you zoom in to a Latitude and Longitude. You can also add your own personal bookmarks.

Help

Help provides some basic tips on using the buttons described in these handouts.

Print

The Print tab is very useful. Using this tab, you can generate a .pdf file of the map and legend. This can be incredibly useful for handouts at a meeting, or for use in a presentation. Also, if you want an image of the map you can copy and paste it into a document. Just hold your mouse over the map itself and right click. Then choose Copy. Then, in your Word document or PowerPoint document, go to Edit, then Paste.

- **Basic Tool buttons**



Surface Water Data Viewer

Full State

Changes the extent of the map to show the entire state of Wisconsin.

Zoom In

The Zoom In button allows you to window into a particular area of interest to see more detail. You can do this in two ways. Using the mouse, "left click" on the Zoom In button and then:

* "left click" a point on the map you wish to be the center of your selected area (one "click" zooms in approximately 2X, you can do this as many times as you want until you have the right extent defined), or:

* define a window by "left clicking" on a point and, keeping the mouse button depressed, "pull" the rectangle being formed until it covers the area of interest and release the mouse button.

* If you have zoomed in too far, use the Zoom Out button to "back out" (approximately 2X each "click") until the appropriate area has been defined.

Zoom Out

Clicking the map with the Zoom Out tool active causes the map to "back out" so you can see approximately 2 times more each "click". The map will be centered at the point clicked.

Zoom to...

Use this option to quickly zoom to a specific area of interest, such as a county, city, or Public Land Survey System Township/Range/Section.

Move

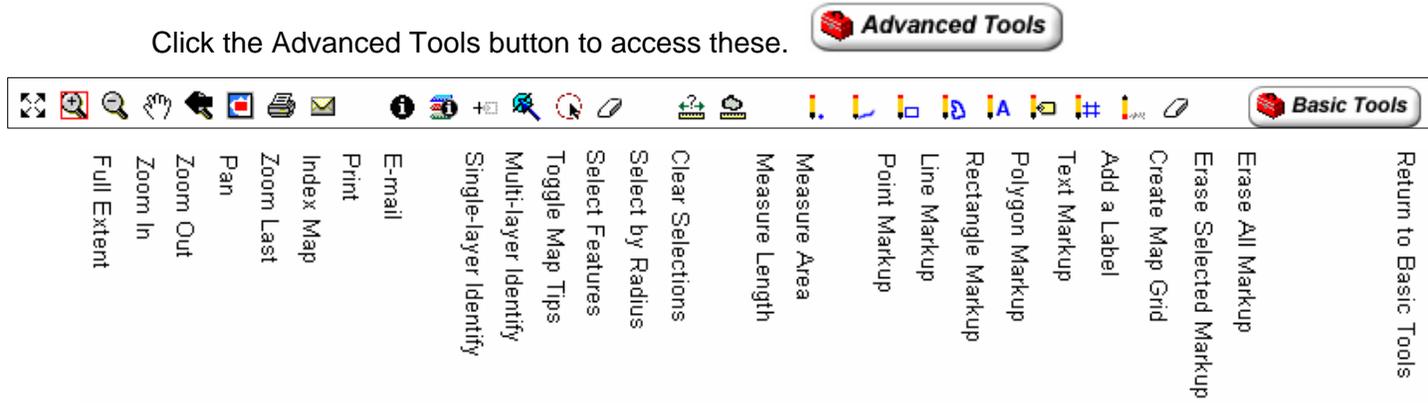
The Move tool (also referred to as "pan") is used to move the area shown in the map window to the left, right, up or down. This is accomplished by left clicking the mouse cursor on the Move button to activate, moving the mouse cursor over the approximate center of the map and then, keeping the left button depressed, dragging the map window until the adjusted area of interest is displayed. Release the mouse button.

Identify

The "drill down" identify tool displays information about each visible layer at the map position clicked. To use, simply click the map and view the results in this window.

Appendix B: Advanced SWDV Tools

New Advanced Viewer Tools



The advanced tools toolbar will display.



Full Extent:

Returns you to the initial statewide view.



Zoom In:

Either click once on the map, or click and drag the mouse (move the mouse with the left button pressed) to draw a box around the area you want to zoom into.



Zoom Out:

Click once on the map to zoom back out.



Pan:

Click and drag the mouse on the map to move in any direction. The map will refresh when you release the mouse button.



Zoom Last:

Returns the map to where you were before you last panned or zoomed the map.



Index Map (New):

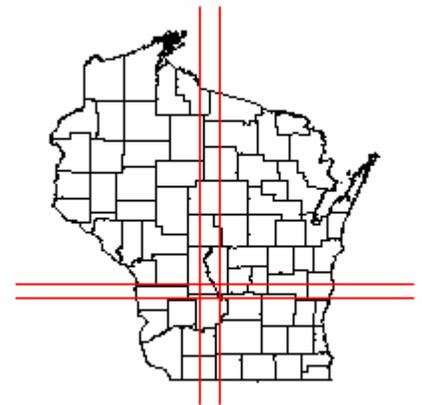
Shows you where the main map is in relation to the entire state. Click on the index map to move the main map to a different location.



Print:

Gives you a menu of options for creating a PDF version of the current map.

Index Map



This map shows the location that the main map displays. You can click on this map to center the main map at the position clicked.

 **E-Mail:**

Gives you a menu of options for sending the current map to someone as an email.

 **Single Layer Identify (New):**

Allows you to identify features in a particular layer. Click on this tool, then click on the “i” icon next to the checkbox for a particular layer in the list of layers, then click on a feature of interest on the map.



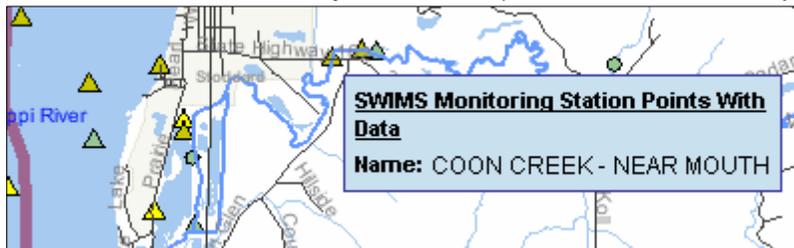
 **Multi-layer Identify:**

Allows you to identify all of the visible features where you click on the map.

 **Map Tips (New):**

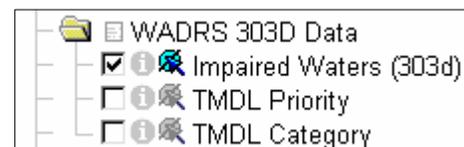
Allows you to identify a feature on the map (without clicking). Hover the mouse over a feature for about 1 second, and an attribute will appear automatically. As a demonstration, Map Tips are available for the following layers:

- SWIMS Monitoring Station names
- GNIS Point names (Internal Viewer only)
- Dam names (Internal Viewer Dam Theme)
- Flood Insurance Study file names (Internal Viewer Floodplain Theme)



 **Select Features:**

Allows you to select individual features on the map. Click on this tool, then click on the “arrow and circle” icon next to the checkbox for a particular layer in the list of layers, then click on a feature of interest on the map to select it.



 **Select by Radius (New):**

Similar to the above. Allows you to select features by clicking on the map, then specifying the radius of a circle. Features in your layer of interest that fall at least partially within the circle will be highlighted, and the circle will be displayed on the map.

 **Clear Selections:**

Clears any selected features on the map.

 **Measure Length:**

Calculates the distances and bearings between points you click on the map, and keeps a running total of all the distances.

 **Measure Area:**

Allows you to calculate the area of a polygon you digitize on the map.

 **Point Markup:**

Allows you to add a star where you click on the map. You can label and/or add a coordinate position to the point, as well.

 **Line Markup (New):**

Allows you to digitize a line on the map by clicking several connected points.

 **Rectangle Markup:**

Allows you to digitize a rectangle on the map by clicking and dragging the mouse.

 **Polygon Markup (New):**

Allows you to digitize a polygon on the map by clicking several connected points.

 **Text Markup:**

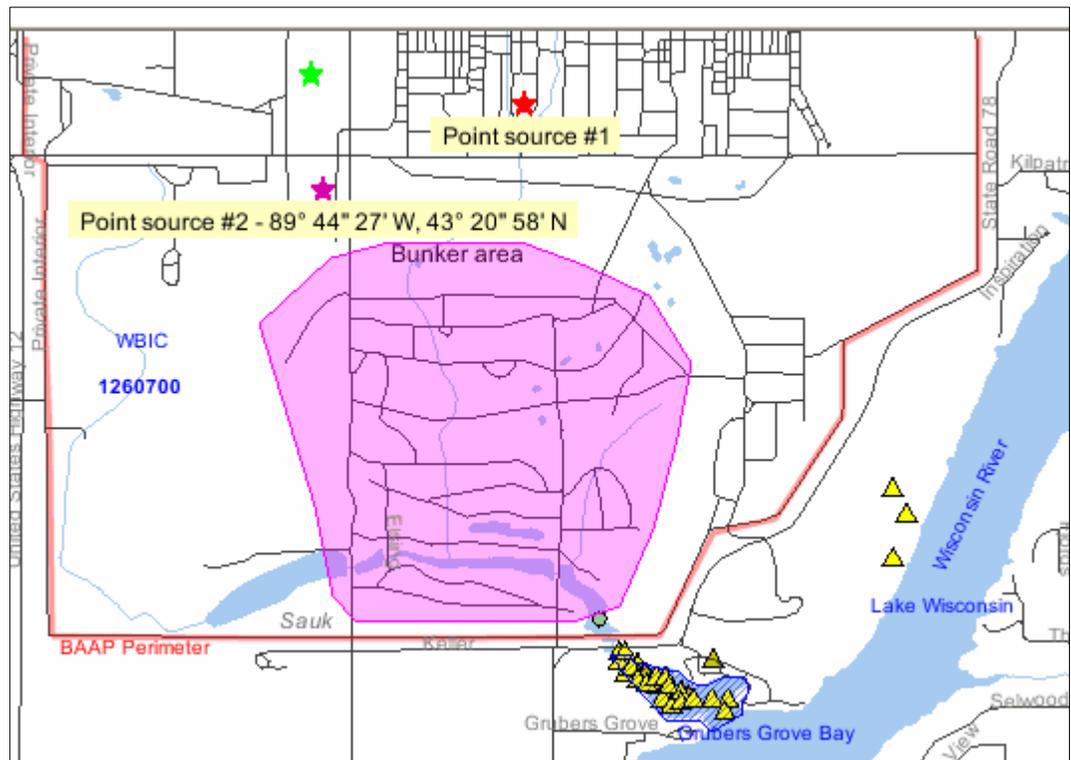
Allows you to add text where you click on the map.

 **Add a Label (New):**

Allows you to click on a feature on the map, and label it with any available attribute field value.

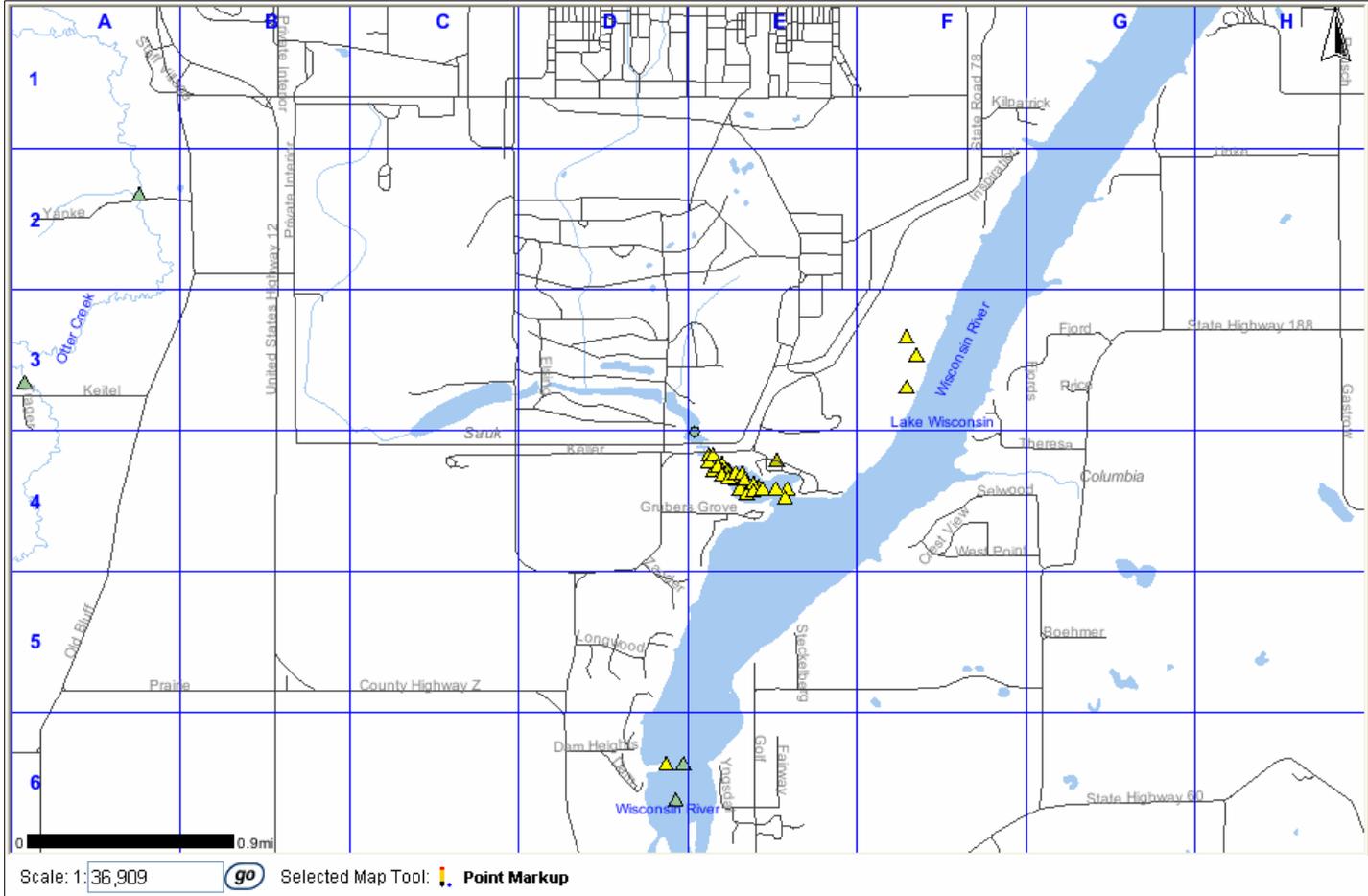
 **Create Map Grid (New):**

Creates an atlas-style map, allowing you to reference map features by row and column.



 **Erase Selected Markup (New):**
Allows you to erase individual markup elements on the map by clicking on them.

 **Erase All Markup:** Erases all markup elements.



Appendix C: Data Set Descriptions

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 Folders & Datasets

- **Fisheries Management Waters**
 - **Muskellunge Waters** (new!)
 - **Sturgeon Waters** (new!)
 - **Smallmouth Bass Waters** (new!)
 - **Walleye Waters** (new!)
 - **Trout Streams** (moved to this folder)
- **Monitoring & Assessments** (Formerly "Resource Management Data")
- **Invasive Species**
 - **Eurasian Water-Milfoil** (moved to this folder)
 - **Zebra Mussels** (moved to this folder)
 - **Reed Canary Grass Infestations** (new!)
- **Wetlands, Plants & Habitat**
 - **Wisconsin Wetland Inventory** (new!)
 - **Critical Habitat Areas** (new!)
 - **Upland Protection Areas** (new!)
 - **Wild Rice Waters** (new!)
 - **High Quality Wetland Waters** (new!)
 - **Wetland Restorations** (new!)
- **Permits & Related Data**
 - **Designated Waters** (moved to this folder)
 - **Land spreading Pilot Project** (moved to this folder)
 - **Waterway & Wetland Alterations** (moved to this folder)
 - **Erosion Control General Permit Availability** (new!)
 - **Surface Water Outfalls** (moved to this folder)
- **Grant Locations**
 - **Non-point source (NPS) Grants** (new!)
 - **Lake Grants** (new!)
 - **River Grants** (new!)
- **Recreation & Trails**
 - **Boating Ordinances** (new!)
- **Forests & Landcover**
 - **Omernik Ecoregions** (new!)
- **Imagery & Basemaps**
 - **2005 NAIP Color Air Photos** (new!)
 - **Color Photos-24K Topo Merge** (new!)

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



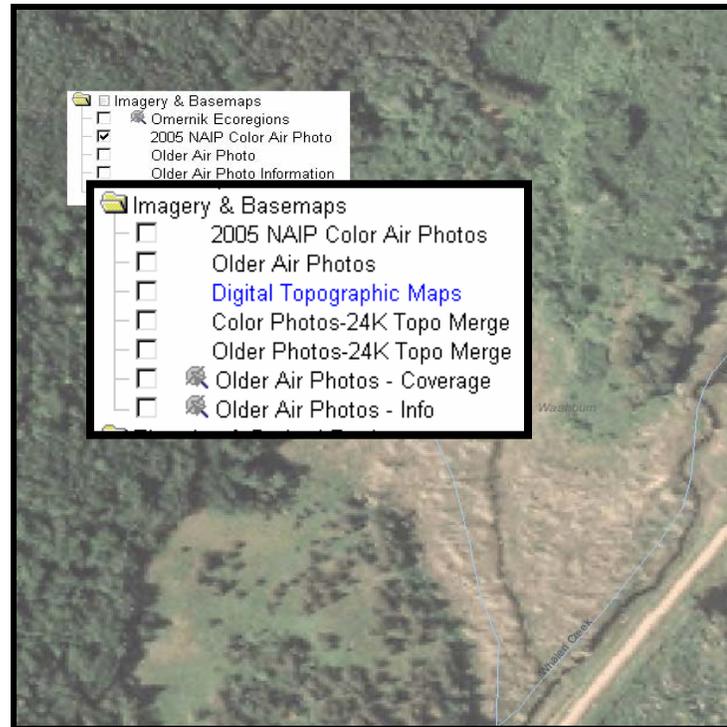
disclaimers.

New Datasets of Special Note:

2005 NAIP Color Air Photos

The 2005 NAIP Color Air Photos (Leaf-on) are now available, in addition to the previously available DOPs. A "merge" of the color air photos and USGS 1:24000 topo maps is also available.

Identify Results	
Coordinate Position	
Lat/Lon:	45° 19' 32.3" N, 91° 19' 12.9" W
Decimal Lon/Lat:	-91.320268, 45.325655
UTM 15N:	631636, 5020500
WTM91 (x,y):	416533, 539975
Older Air Photo Information	
COUNTY:	RUSK COUNTY
Imagery Year:	1998
County Boundary	
County Name:	Rusk
DNR County Code:	55
DNR Region:	Northern Region



Erosion Control General Permit Availability

This layer is used to determine which types of general permits are available for a waterway alteration project.

Identify Results	
Coordinate Position	
Lat/Lon:	43° 34' 54" N, 89° 49' 53" W
Decimal Lon/Lat:	-89.814710, 43.581540
UTM 16N:	272748, 4829247
WTM91 (x,y):	534959, 345412
Cities and Villages	
MCD Fips Code:	41300
Name:	Lake Delton
City Class Code:	0
Area (Sq. Miles):	0.71
MCD Type Code:	V
Erosion Control General Permit Availability	
Ecoregion:	Driftless Area and Prairie Pothole Region
Watershed Land Use:	Non-urban
City or Village?:	City or village
Potential GP Availability:	Bio Stabilization, Integrated Bank Treatment, Replacement of Seawall or RipRap Bank Erosion Control Structure with Integrated Bank Treatment or Bio Stabilization, Repair of RipRap Bank Erosion Control Structure
County Boundaries	
Name:	Rusk
County FIPS Code:	111
DNR County Code:	57
DNR Region:	South Central Region

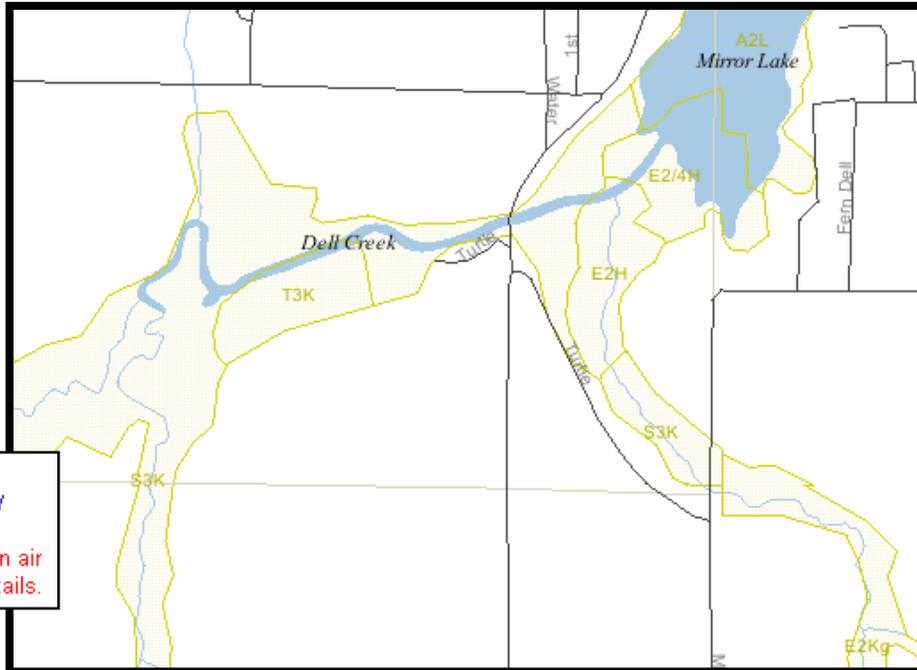
*Wisconsin Wetland

Inventory

Wetlands for many counties are now available on the viewer. Be sure to read the *disclaimer* for details and limitations of the data.



Wetlands, Plants & Habitat
 Wisconsin Wetland Inventory
Wetland boundaries may be shifted slightly when overlaid on air photos. Click above link for details.



Wisconsin Wetland Inventory Disclaimer

Wisconsin Wetland Inventory (WWI) maps show graphic representations of the type, size and location of wetlands in Wisconsin. These maps have been prepared from the analysis of high altitude imagery in conjunction with soil surveys, topographic maps, previous wetland inventories and field work.

State statutes define a wetland as "an area where water is at, near or above the land surface long enough to be capable of supporting aquatic or hydrophytic vegetation and which has soils indicative of wet conditions."

The principal focus of the WWI is to produce wetland maps that are graphic representations of the type, size and location of wetlands in Wisconsin. Within this context, the objective of the WWI is to produce reconnaissance level information on the location, type, size of these habitats such that they are accurate at the nominal scale of the 1:24,000 (1 inch = 2000 feet) base map. The DNR recognizes the limitations of using remotely sensed information as the primary data source. They are to be used as a guide for planning purposes.

There is no attempt, in either the design or products of this inventory, to define the limits of jurisdiction of any Federal, State, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State, or local agencies concerning specified agency regulatory programs and jurisdictions that may affect such activities. The most accurate method of determining the legal extent of a wetland for federal or state regulations is a field delineation of the wetland boundary by a professional trained in wetland delineation techniques.

Please review the Digital Wisconsin Wetland Inventory status map found at:
[http://dnr.wi.gov/org/water/fhp/wetlands/documents/Digital Wetland Status Map.pdf](http://dnr.wi.gov/org/water/fhp/wetlands/documents/Digital%20Wetland%20Status%20Map.pdf).

This map will tell you which counties were mapped using orthophotography and which counties were not. The digital wetland data is only meant to be a guide.

Grant Locations, Descriptions and Final Reports Online!

You can now access the state's Rivers, Lakes and TRM grant data online! Simply turn "on" the grant layer you wish to view, then go to your area of interest. Click "identify" for more information.

- Permits & Related Data
- Grant Locations
 - NPS Grants
 - Lake Grants
 - River Grants
- Admin & Political Bounda

If a final report or other document is available electronically for the grant of interest, it will be "downloadable" from the "more detail" area. The example above shows that the final report for the Barron County Lakes grant is available in a PDF format. Below is the report that you can read once you click on the hyperlink:

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

https://dnrx.wisconsin.gov - Resource of Interest Detail Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Project Description:

Barron County proposes to create a database of information on the county's lakes. A document will be produced suitable for the public's use that includes information about each lake. They will also classify the county's lakes according to land uses- water quality- and sensitivity to development.

Documents:

- [BARRON COUNTY LAKES DATA COLLECTION AND CLASSIFICATION](#)

WTM91 (x,y): 394854, 551560

Lake Grant Areas

More Detail

Grant Type: LAKE_GRANT
Grant Name: AEPP-021-06
Start Date: Apr 1, 2006
Status: Complete
Description: Barron County Aquatic Invasive Species Project
Category: Aquatic Invasives education, prevention & planning
End Date: Dec 31, 2006

More Detail

Grant Type: LAKE_GRANT
Grant Name: LPL-362
Start Date: Mar 28, 1996
Status: Complete
Description: Barron County Lakes Data Collection and Classification
Category: Large Scale Lake Planning Grant
End Date: Jun 30, 1997

Wisconsin Department of Natural Resources

Layers Legend

Full State

Barron County proposes to create a database of information on the county's lakes. A document will be produced suitable for the public's use that includes information about each lake. They will also classify the county's lakes according to land uses- water quality- and sensitivity to development.

Documents:

- [BARRON COUNTY LAKES DATA COLLECTION AND CLASSIFICATION](#)

Adobe Acrobat Professional - [LPL-362[1].pdf]

File Edit View Document Comments Tools Advanced Window Help

Create PDF

41%

The Lakes of Barron County

A report on their status in 1996