

Wetlands Spatial Data 101:

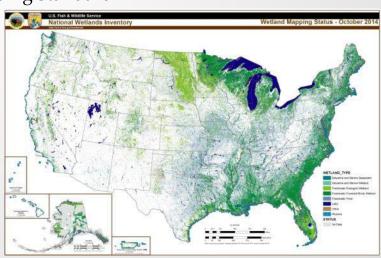
How to Access Data on the NWI Mapper and Other Resources

Mitch Bergeson - Project Lead
National Standards and Support Team
Ecological Services
U.S. Fish and Wildlife Service
Madison WI



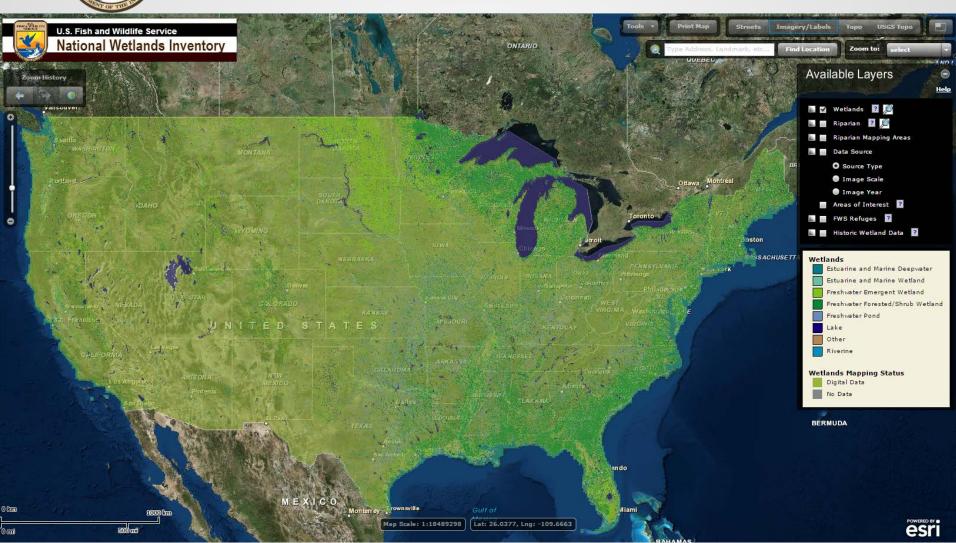
National Wetlands Inventory

- Emergency Wetland Resource Act of 1986
 - Map wetlands of the U.S. National Wetlands Inventory
 - Provide 10 year Reports Wetlands Status and Trends Reports
- National Geospatial Data Asset (NGDA)
 - Supports mission goals of multiple federal agencies
 - Statutorily mandated
 - Supports Presidential priorities as expressed by OMB
 - OMB Circular A-16 identifies the Wetlands Layer as a National Spatial Data Infrastructure (NSDI) layer
 - Stewards of National Wetland Classification Standard
 - Stewards of the FGDC Wetland Mapping Standard
- Over 20 million polygons
- ➤ 40 years and \$220+ million
- Over 165 contributors
- ➤ Nearly 1 million website views annually
- ➤ 335,000+ Mapper unique users annually
- First DOI application hosted in the Cloud



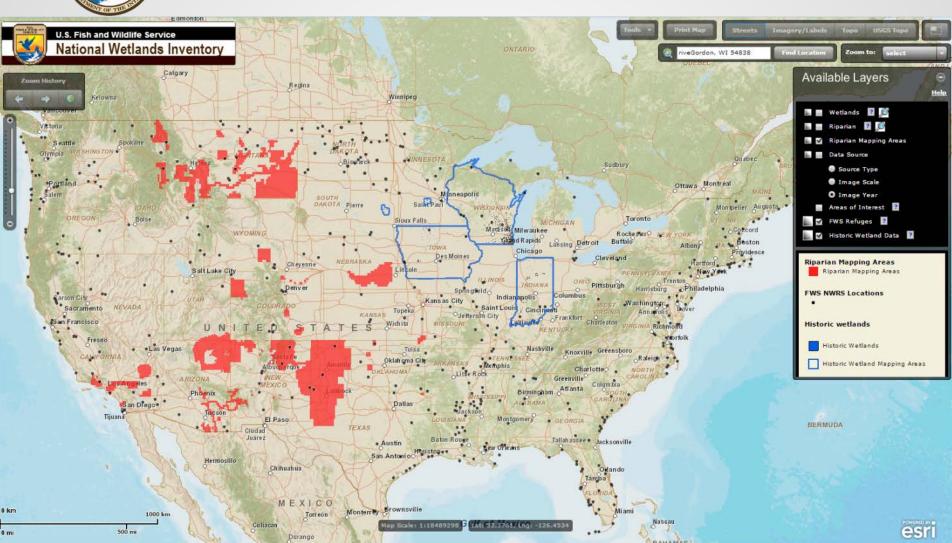


Wetlands Mapper - Layers



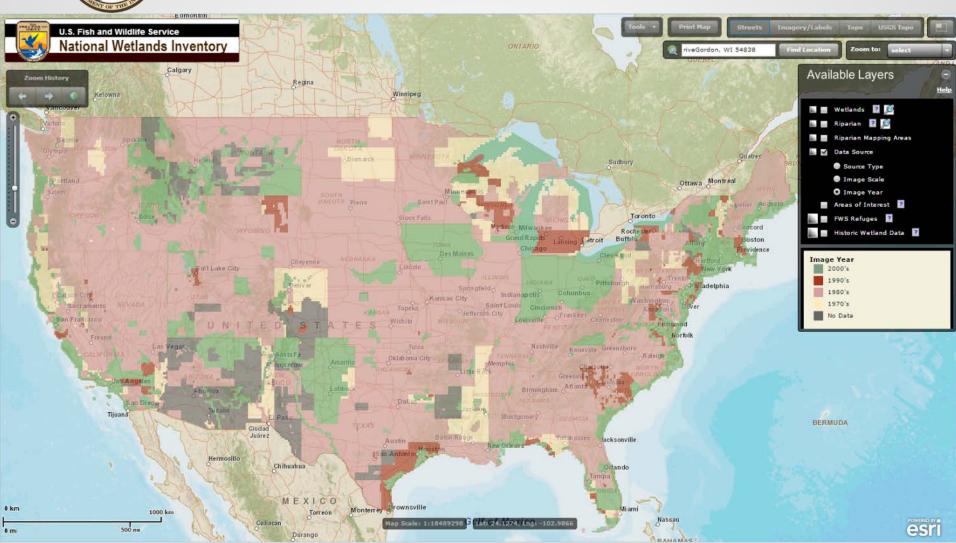


Wetlands Mapper - Layers

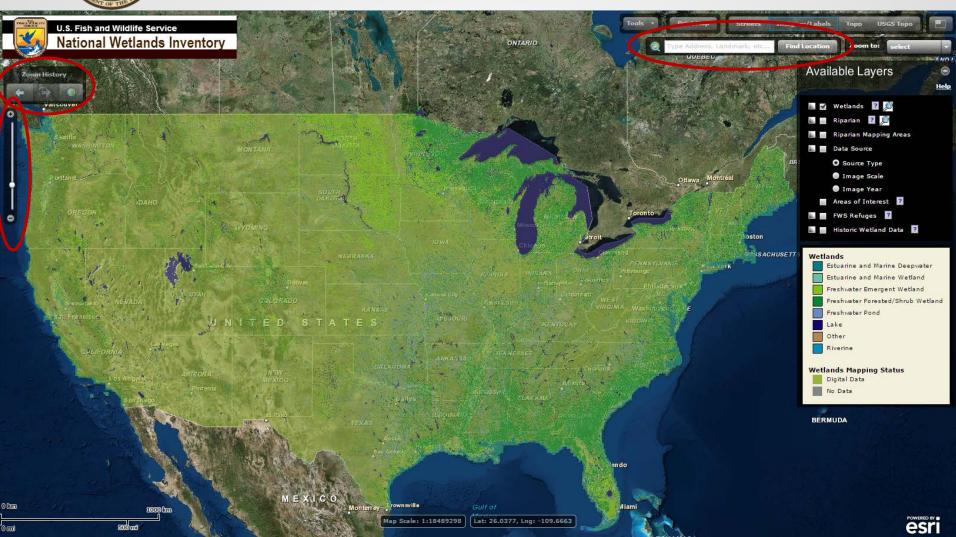




Wetlands Mapper - Layers



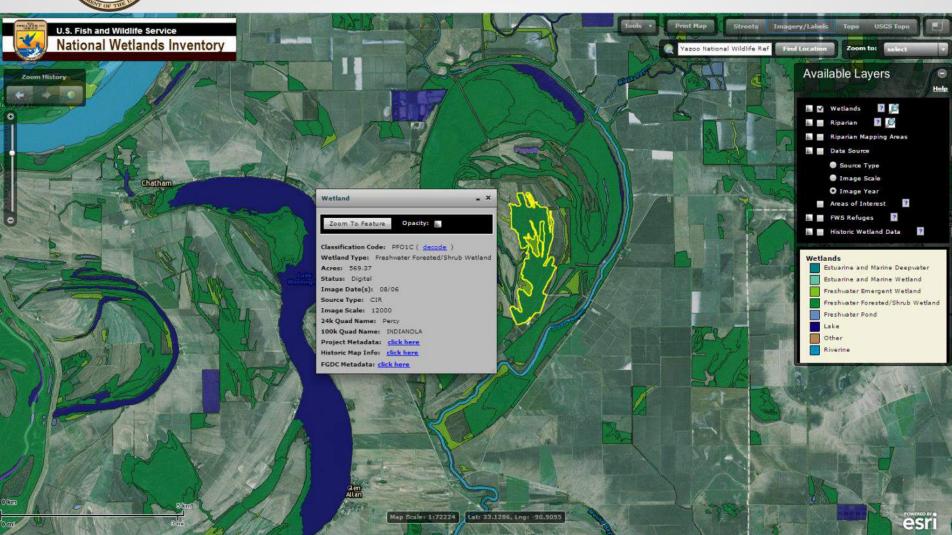




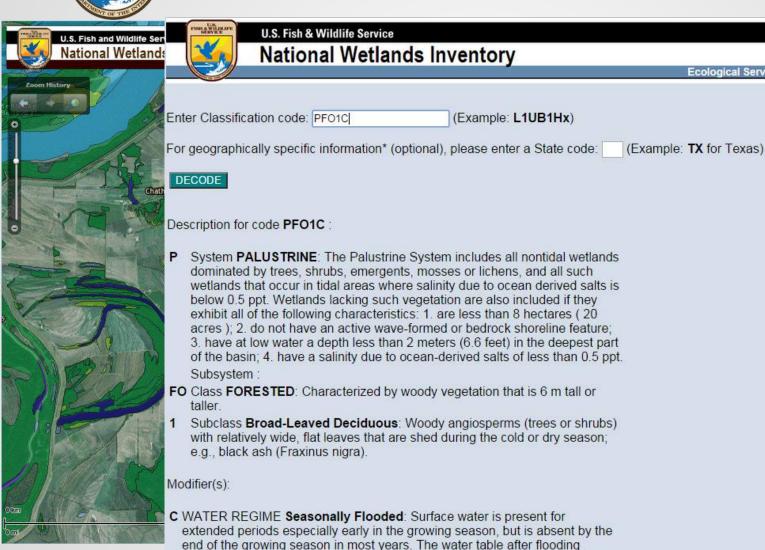
















Wetlands Mapper - Print

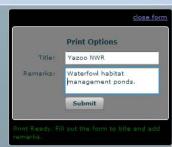




Wetlands Mapper - Print

Wetlands Mapper

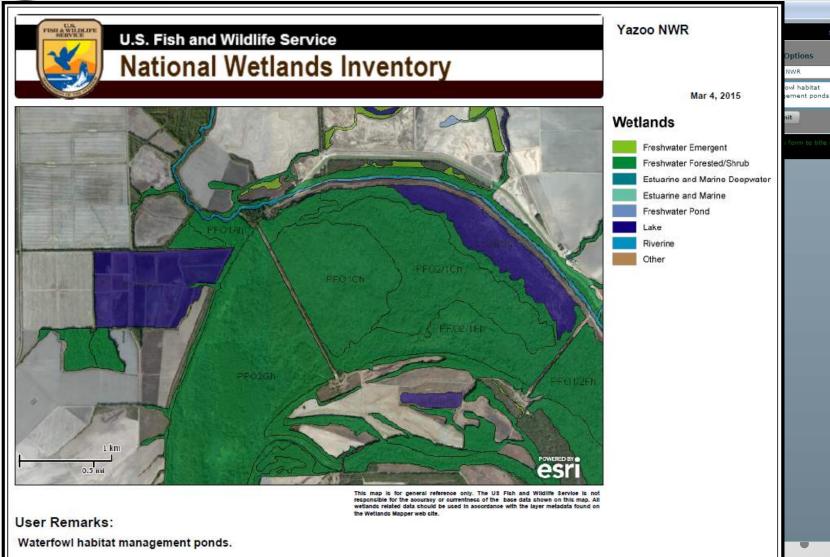






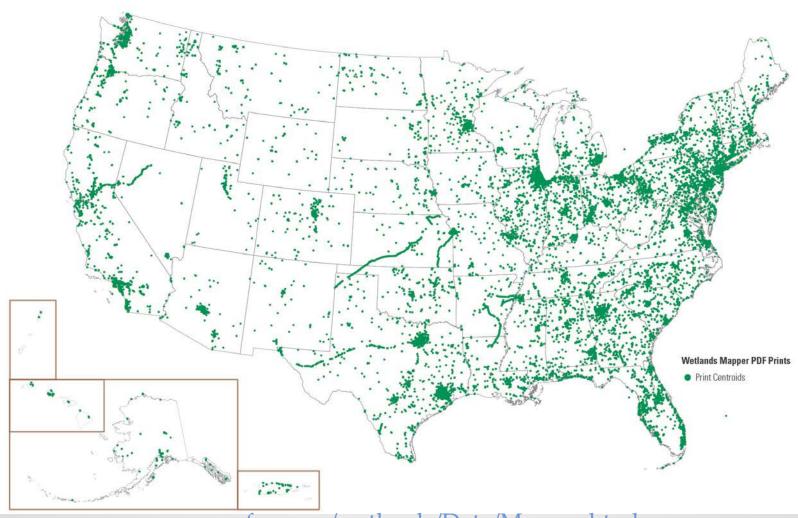
Wetlands Mapper - Print

Wetlands Mapper





Wetlands Mapper – Print 13,947 Maps Printed – Feb 2015



www.fws.gov/wetlands/Data/Mapper.html

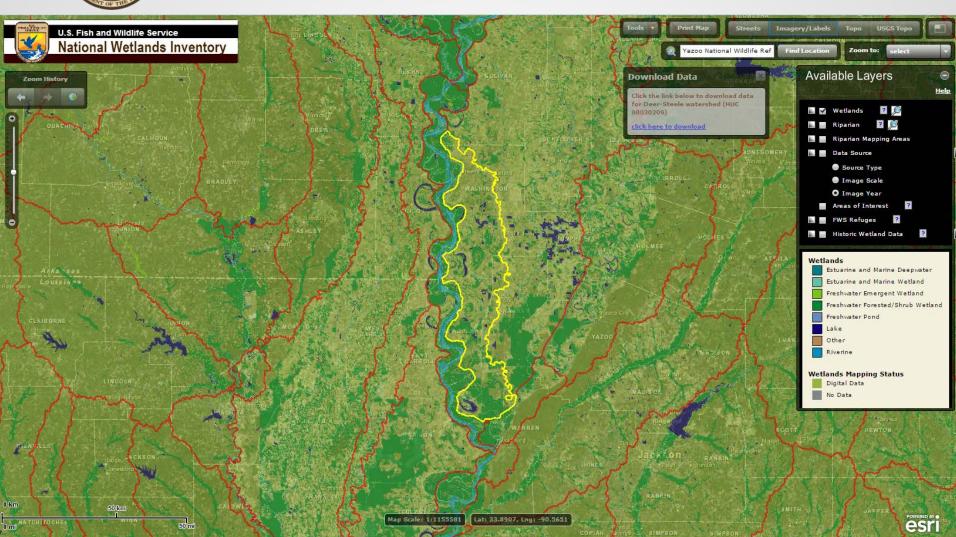


Wetlands Mapper - Data



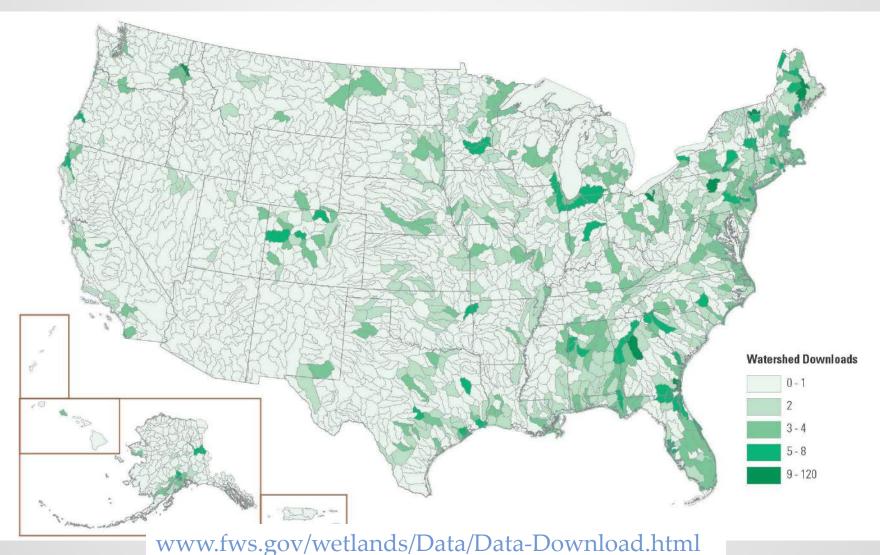


Wetlands Mapper - Data





Wetlands Mapper – Data 952 Watershed Downloads – Feb 2015





Wetlands Mapper - Data



U.S. Fish & Wildlife Service

Search NWI Site

Status and Trends 1

National Wetlands Inventory

Wetlands Laver |

Ecological Services

Contact Information |

U.S. Fish and Wildlife Servi National Wetlands



Download Seamless Wetlands Data by State

Before You Begin

Each State data download is available as either a compressed file <u>Geodatabase</u> or a <u>Shapefile</u>. Both files are compressed by using the <u>.zip</u> format and contain the following layers:

Other Topics 1

National Wetlands Inventory

- · Wetlands polygon data
- Wetlands Project Metadata (includes image dates and project information)
- · Wetlands Historic Map Information*
- Riparian polygon data*
- Riparian Project Metadata (includes image dates and project information)*
- Historic Wetlands*
- · Historic Wetlands Project Metadata (includes image dates and project information)*
 - * If available at the requested location Information about each of these layers can be found on our Metadata page.
- Not all of Alaska has been digitally mapped by the U.S. Fish and Wildlife Service. Please refer to the Wetlands Mapper Wetlands Mapping Status layer to
 view where wetlands have been mapped in Alaska. The state downloads include a Wetlands Project Metadata layer that identifies where and when
 wetlands were mapped within the state.
- NOTE: Due to the variation in use and analysis of this data by the end user, each of states wetlands data extends beyond the state boundary. Each state includes wetlands data that intersect the 1:24,000 quadrangles that contain part of that state (1:2,000,000 source data). This allows the user to clip the data to their specific analysis datasets. Beware that two adjacent states will contain some of the same data along their borders.

Downloading Tips

- If an error occurs during your download, or if your downloaded file(s) is corrupted, we strongly recommend the use of a download manager.
 Please visit the <u>Frequently Asked Questions</u> page for more information on this topic. For security reasons, we are not allowed to served data via <u>FTP</u>
- Due to the amount of data being downloaded, the resulting time to download each file may take up to 60 minutes or more, and each file can range in sizes from 1MB to approximately 1GB.

State Downloads (file downloads last updated October 6, 2014)

State	Download Type	
Alabama	<u>Geodatabase</u>	Shapefile
Alaska	<u>Geodatabase</u>	Shapefile
Arizona	<u>Geodatabase</u>	Shapefile
Arkansas	<u>Geodatabase</u>	<u>Shapefile</u>
California	<u>Geodatabase</u>	Shapefile
Colorado	Gendatahase	Shanefile

	State	Download Type	
]	Nebraska	<u>Geodatabase</u>	<u>Shapefile</u>
	Nevada	<u>Geodatabase</u>	<u>Shapefile</u>
	New Hampshire	<u>Geodatabase</u>	<u>Shapefile</u>
	New Jersey	<u>Geodatabase</u>	Shapefile
]	New Mexico	<u>Geodatabase</u>	<u>Shapefile</u>
1	Now York	Gendatahase	Shanefile

Source Type Image Scale O Image Year Areas of Interest FWS Refuges Historic Wetland Data Wetlands Estuarine and Marine Deepwater Estuarine and Marine Wetland Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Freshwater Pond Other Riverine Wetlands Mapping Status Digital Data

Available Layers

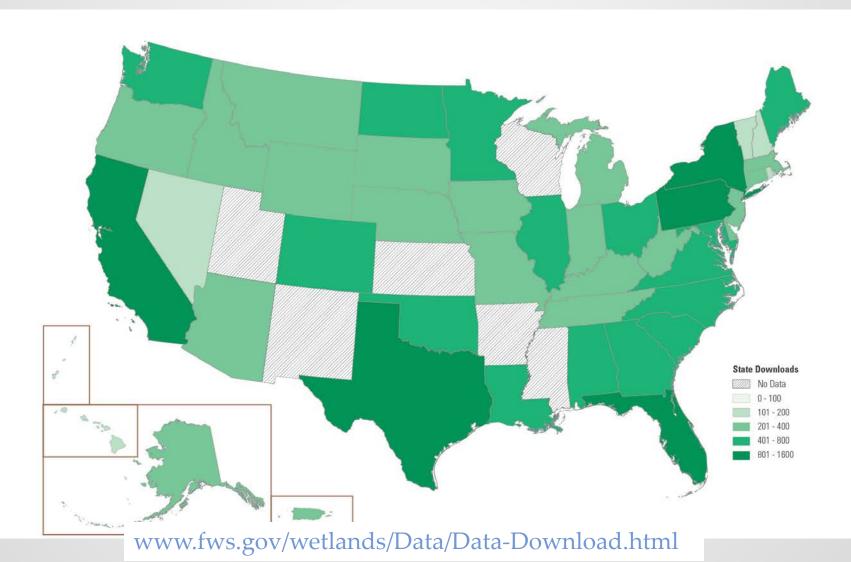
Riparian Mapping Areas

Data Source

www.fws.gov/wetlands/Data/Data-Download.html



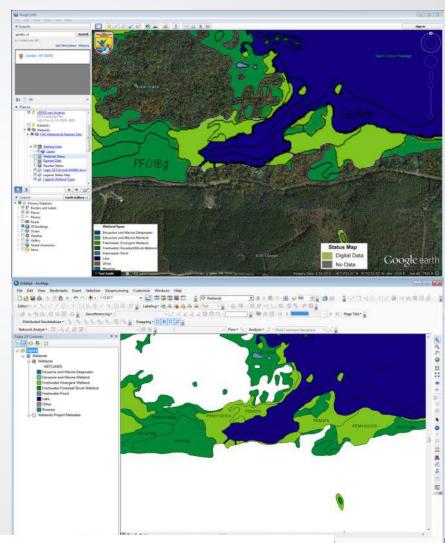
Wetlands Mapper – Data 20,850 State Downloads - 2014





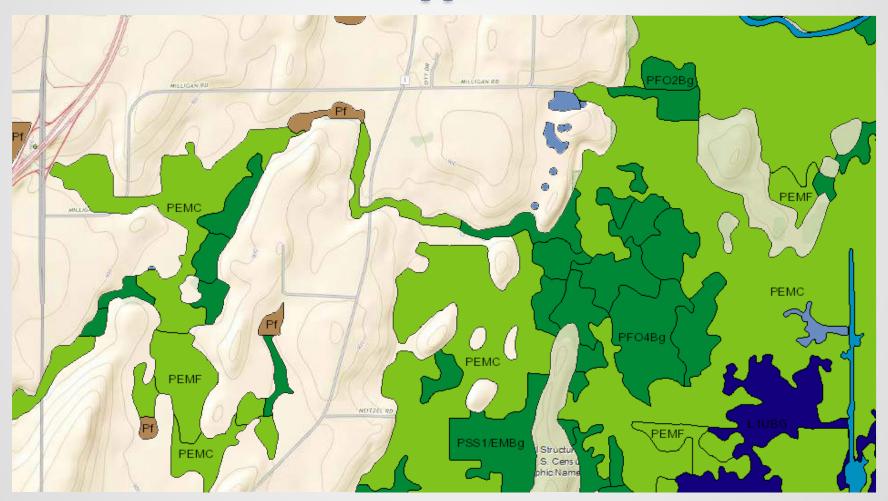
Wetlands Mapper – Map Services

- Google Earth KML
- Web Mapping Service WMS
- Rest Services
 - ➤ FWS IPAC system
 - Army Corps ORM system
 - ➤ EPA NEPAssit system
 - USGS National Map
 - USGS US Topo
 - ➤ GeoSpatial Platform.gov
 - Data.gov
 - > ESRI ArcGIS Online
 - GIS User's Desktop Software
 - **>**



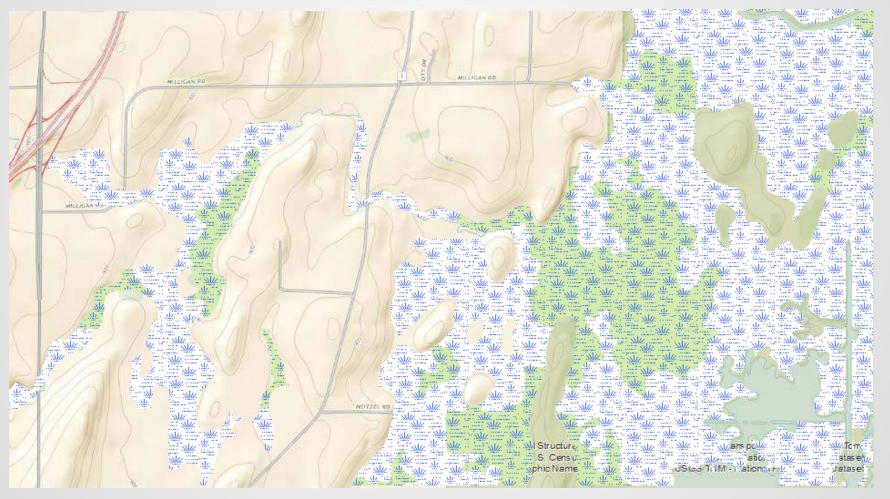


Mapper Service



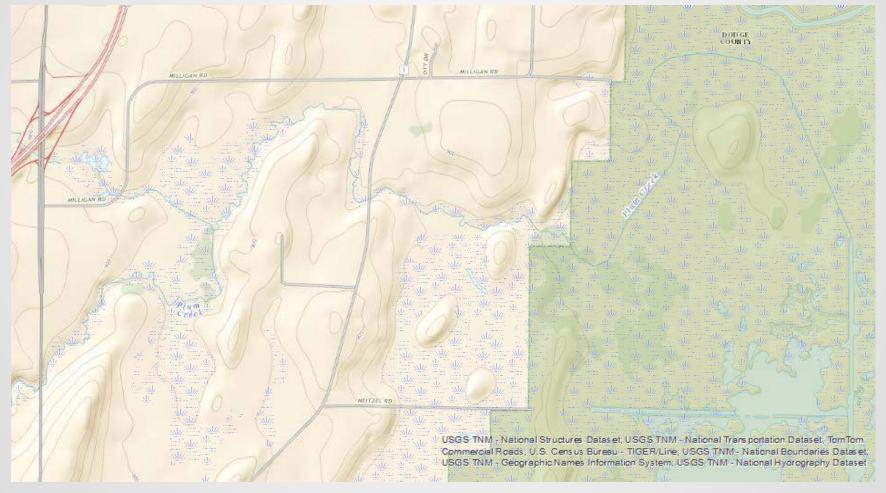


Topographic Service



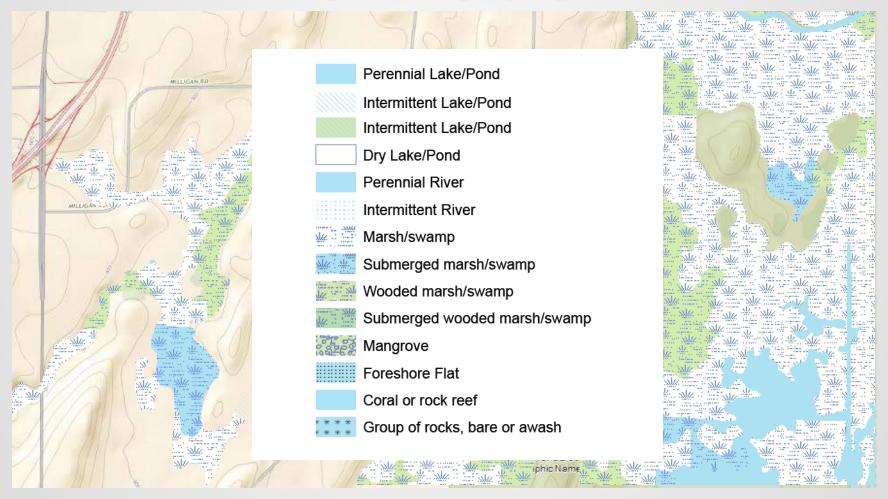


Symbol Service

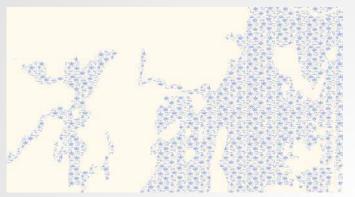




Wetlands Services Complete Topographic Service



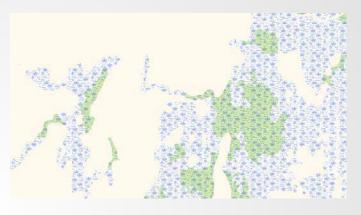




Symbol Service



Mapper Service



Topo Service



Complete Topo Service

http://107.20.228.18/ArcGIS/rest/services



Wetlands Publications and Reports



U.S. Fish & Wildlife Service

National Wetlands Inventory

Ecological Services

Document Search Engine

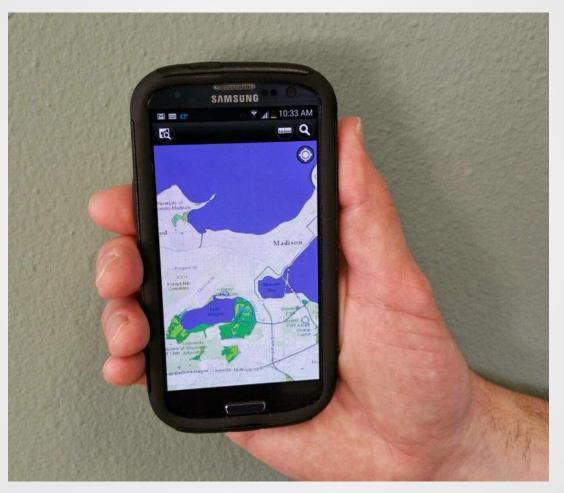
Enter one or more words to search for documents. Documentation about the topics, document categories, and status choices, is available here (PDF). This page contains links to .PDF documents that may not be fully accessible. If you need help with accessing a document please call: 608-238-9333 or email at: wetlands.team@fws.gov.



Search for: Status and Trends Submit Results per page: 10 ▼				
Match: ● any search words ○ all search words				
Category: All Documents Website Pages				
Status: All Topic: Status and Trends Document Category: All Document ID: Search results for: Status and Trends in category "Documents"				
71 results found containing all search terms. 5 results found containing some search terms.				
8 pages of results. Sorted by relevance / Sort by date				
1. Technical Procedures for Conducting Status and Trends of the Nation's Wetlands [Documents] Status: Current Topic: Status and Trends Doc. Category: Technical Document or Procedure Manual Document ID: 904200931, Procedures, Conducting, Status, Trends, Nation's, Wetlands Thomas E. Dahl and Mitchell T. Bergeson Terms matched: 3 - 1 Mar 2009 - 1k - URL: http://www.fws.gov/wetlands/Documents/Technical-Procedures-for-Conducting-Status-and-Trends-of-the-Nations-Wetlands.pdf				
2. Status and Trends of Wetlands in the Conterminous United States 2004 to 2009 [Documents] Status: Current Topic: Status and Trends Doc. Category: Scientific Publication Journal or Text Document ID: 1110061107 Status, Trends, Wetlands, Conterminous, United States Status and Trends of Wetlands in the Conterminous United States to 2009 Terms matched: 3 - 1 Jan 2011 - 1k - URL: http://www.fivs.gov/wetlands/Documents/Status-and-Trends-of-Wetlands-in-the-Conterminous-United-States-2004-to-2009.pdf				
3. Technical Procedures for Wetlands Status and Trends [Documents] Status: Archive Topic: Status and Trends Doc. Category: Technical Document or Procedure Manual Document ID: 904200930, Procedures, Wetlands, Status, Trends Tems matched: 3 - 1 Dec 2004 - 1k - URL: http://www.fws.gov/wetlands/Documents\Technical-Procedures-for-Wetlands-Status-and-Trends.pdf				



Wetlands Mobile App



Coming Soon



Contribute Wetlands Data



U.S. Fish & Wildlife Service

National Wetlands Inventory

Ecological Services

Search NWI Site

Wetlands Data 1

Status and Trends 1

Wetlands Layer J

Other Topics 1

National Wetlands Inventory

Contact Information 1

Contributed Data: Contribute your Data to the Wetlands Master Geodatabase

Introduction

Home

Organizations or individuals have the opportunity to contribute wetlands data to the wetlands geospatial data layer maintained by the U.S. Fish and Wildlife Service. The wetlands data layer is the featured layer on the Wetlands Mapper, is a National Geospatial Data Asset (NGDA) dataset designated by OMB Circular A-16 and the Federal Geographic Data Committee (FGDC) and is registered through Geoplatform gov and Data gov.

The Service will provide proper acknowledgement of all data contributors and maintain data integrity consistent with DOI policy.

New: The Wetland Mapping Consortium (WMC) Webinar:

"Mapping Standards and Procedures - The NWI and You"

Part 1; Part 2; Part 3

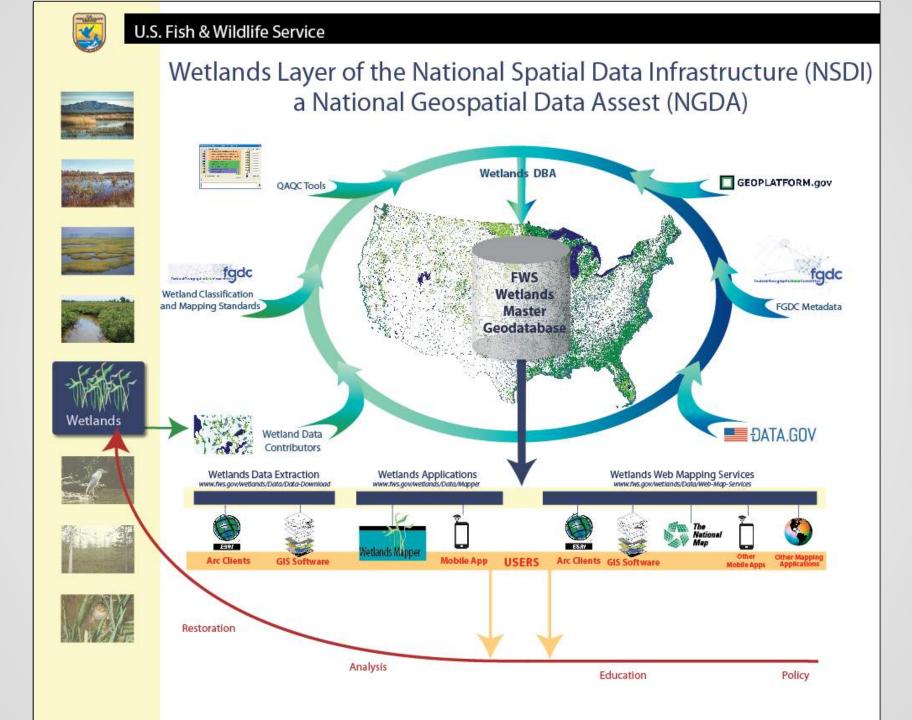
Data Submission

Because the Wetlands Master Geodatabase is a national data set, certain standards must be met before the data can be added. However, if you do not have the ability or resources to make your data meet these standards the Service may be able to assist in data conversions or modification.

The Wetlands data standards for acceptance into the Wetlands Master Geodatabase (MGD) are as follows:

- The data should comply with the Wetlands Mapping Standards.
- Properly project all data. The projection for wetlands is the Albers Equal Area Conic Projection and the North American Datum of 1983. Click here for additional projection information.
- · ESRI shapefiles and Personal Geodatabases, or File Geodatabases, are the preferred spatial data formats for submission.
- Users are encouraged to verify their wetlands data by downloading and using the Wetlands Data Verification Toolset
- The Wetlands Master www.fws.gov/wetlands/Data/Contributed-Data.html feature class.

and added to the polygon





Questions?

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Jane Harner – jane harner@fws.gov

www.fws.gov/wetlands/

www.fws.gov/wetlands/Data/Contributed-Data.html