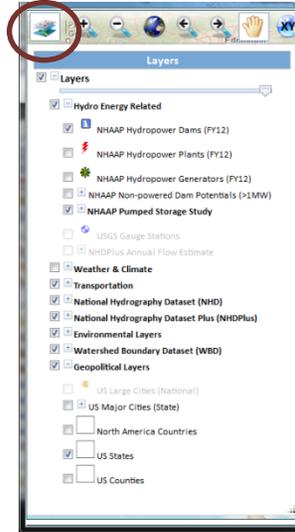




- Toggle Map Layers: This function allows users to turn feature layers on and off in the map view. Layers are grouped into categories (Hydro Energy Related, Weather & Climate, etc). The only layer activated when ORNL HydroGIS is first started is the NHAPP Hydropower Dams (FY12) which is available under the Hydro Energy Related group. Users can expand other categories and turned layers on and off to explore the feature layers available. Another feature available under this function is a slide bad which adds transparency to the layers activated. Sliding the bar to the right decreases the transparency of features. Sliding the bar towards the left adds transparency to features.



- Zoom In 
- Zoom Out 
- Zoom to Full Extent 
- Zoom to Previous Extent 
- Zoom to Next View 
- Pan 
- Zoom to Point: Zoom to a specific location by entering Latitude/Longitude coordinates in decimal degrees. 

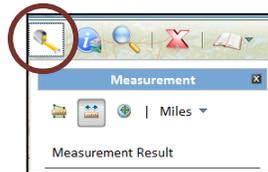
Zoom to Point

Longitude (Easting):  Latitude (Northing):

- Locate An Address: Zoom to a specific location by entering an address and clicking the 'Locate' button.



- Measure Map: User can measure a polygon area, linear distance between two points or the coordinates at a location in several units of measurements. To measure a polygon area, select the 'Area' button and draw a polygon on the map. Measurement results are displayed in the window in the units selected (i.e. acres, square miles, etc.) To measure the linear distance between two points, select the 'Distance' button and click at the beginning and end of a line on the map. Measurement results are displayed in the window in the units selected (i.e. miles, meters, etc.) The 'Location' button provides the coordinates at the selected location in either decimal degrees or degrees/minutes/seconds.



- Select Features on Map: Attribute information for features is available using the 'Select Features of Map' icon. The user can select to view attributes for features within a specific target layer that is active on the map, or all visible layers on the map. Users can also choose to view information for features at one-point click location, or to draw a polygon on the map and view attributes for all selected features within the polygon. Once a feature has been selected, users can 'Find Nearby Features' within a chosen buffer distance. Nearby features can include features from the any feature layer active on the map.

ORNL HydroGIS - Mozilla Firefox (Private Browsing)

hydro.ornl.gov/webgis/hydro

ORNL HydroGIS

Presenting Hydro Energy Related Information

Basemap

Select Features

Target Layer: NHAAP Hydropower Dams (FY12)

By Point (selected) By Area

Find Nearby Features within 100.00 Miles

NHAAP Hydropower Dams (FY12): Taum Sauk PS Upper

Category: FERC/EIA

Dam Name: Taum Sauk PS Upper

Dam Owner Name: Union Electric Company

WBD HUC08 ID: 11010007

NID ID: MO30040

NID State ID: 02277-01-01

NID Structure ID: Null

State: MO

County: Reynolds

City: Lesterville

Year Built: 1963

Zoom to

State Name	State FIPS	Sub Region	State Abbreviation	Population in 2000	Estimated Population in 2005	Population Density in 2000 (per Square Mile)	Estimated Population Density in 2005 (per Square Mile)	Population (White)	Population (Black)	Population (American Indian, Eskimo, or Aleut)	Population (Asian)	Pop. or 1
Illinois	17	East North Central	IL	12419200	12864960	220.6	228.5	9125471	1879675	31006	423603	461
Kentucky	21	East South Central	KY	4041769	4183104	100.2	103.7	3640889	295994	8616	29744	140
Missouri	29	West North Central	MO	5595211	5852142	80.1	83.8	4748083	629391	25076	61586	311



**Search Features:** This icon selects features in the target layer based on text entered in the 'Search' window. Features are selected on the map and the attribute table is opened at the bottom of the screen.

ORNL HydroGIS - Mozilla Firefox (Private Browsing)

hydro.ornl.gov/webgis/hydro

ORNL HydroGIS

Presenting Hydro Energy Related Information

Basemap

Search Features

Search: Alabama

in: NHAAP Hydropower Dams (FY12)

Search

NHAAP Hydropower Dams (FY12)

Category	Dam Name	Dam Owner Name	WBD HUC08 ID	NID ID	NID State ID	NID Structure ID	State	County	City	Year Built	Dam Height (ft)	Dam
USACE	MILLERS FERRY LOCK, DAM & POWERHOUSE	CESAM	03150203	AL01435	11220		AL	WILCOX	MIDWAY	1970	100	110
USACE	ROBERT F. HENRY LOCK AND DAM	CESAM	03150201	AL01434	08590		AL	LOWNDES	BENTON	1971	110	115

- **Clear Graphics**



- **Additional Resources:** Access to additional information about the NHAPP program, graphs showing monthly and year power generation at each site, monthly USGS streamflow plots and USHCN monthly and yearly average temperature and precipitation.

