

***Interactive Multimodal Freight Network
Web Application
User Guide***

Purpose:

USDOT has put together an interactive national map viewer for the Multimodal Freight Network. Please make sure that you are using following viewers.

IE 9 or higher

Outline:

- I. [Interface](#)
- II. [Tools](#)
- III. [Map Content](#)
- IV. [Add Data](#)
- V. [Selecting Data](#)
- VI. [Working with the Layers](#)

I. Interface



II. Tools

Default Extent: Zoom back to the original extent of the map

Zoom to Coordinates: User can put in a latitude and longitude and the map will center on this location

Zoom to Region, State, or County: User can select a FRA region, a State, or a County and the map will zoom to this area

Zoom In/Out: Allow the user to zoom in or out of the map. Note: the user can use their mouse to zoom in or out.

Print: The user can print out the map as a PDF or JPEG and can select to have it landscape, portfolio, or map only.

Measure Tool: The user has the ability to measure an area, measure the length, or determine the coordinates on the map. The user will have the options to toggle between different metrics.

Map Content: The user will be able to view the legend, turn on or off layers, and toggle between the basemaps.

Add Data: The user will have the option to search for layers to add to the map, add mapping services, or add their data to the map.

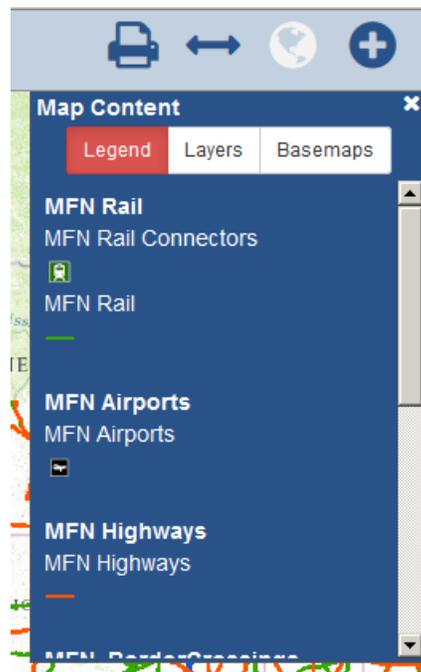
Select Content: The user can query the data based on their attributes or be able to select the data on the map. These queries will display the data at the bottom of the map.

Search Locations: The user can search for specific locations and the map will zoom to that area on the map.

III. **Map Content**

a. Legend:

The legend is dynamic, so it will only show the layers that are currently turned on and visible within the map.

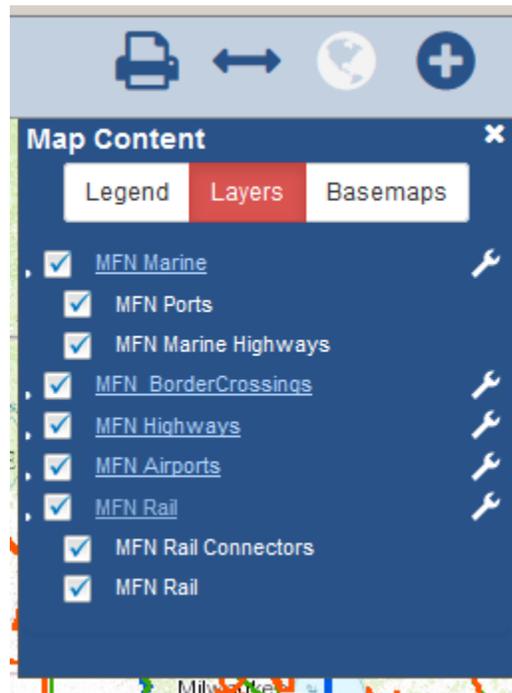


Layers:

The user can turn on and off the layers.

Please note:

- Some of the layers have sub-layers
- Some layers will not be visible until the user zooms into the map
- The user has a tool symbol aligned to the right to allow the user to change the transparency or move the layers up or down.

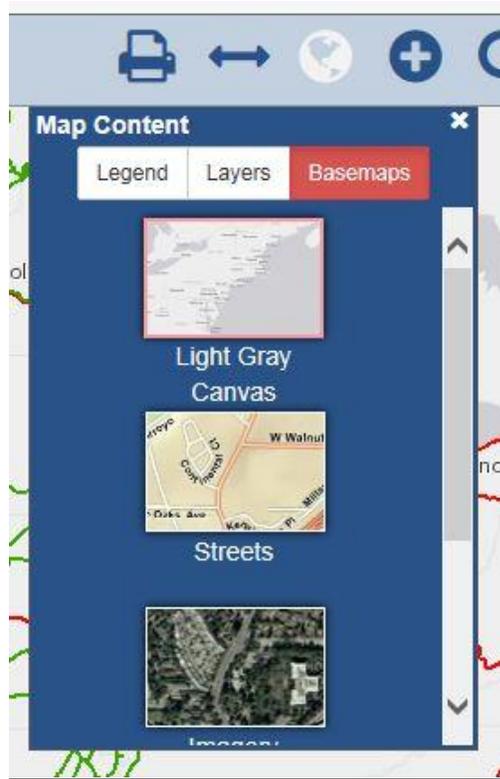


Data Available:

- MFN Marine
 - MFN Ports
 - MFN Marine Highways
- MFN Border Crossings
- MFN Highways
- MFN Airports
- MFN Rail
 - MFN Rail Connectors
 - MFN Rail

b. Basemaps

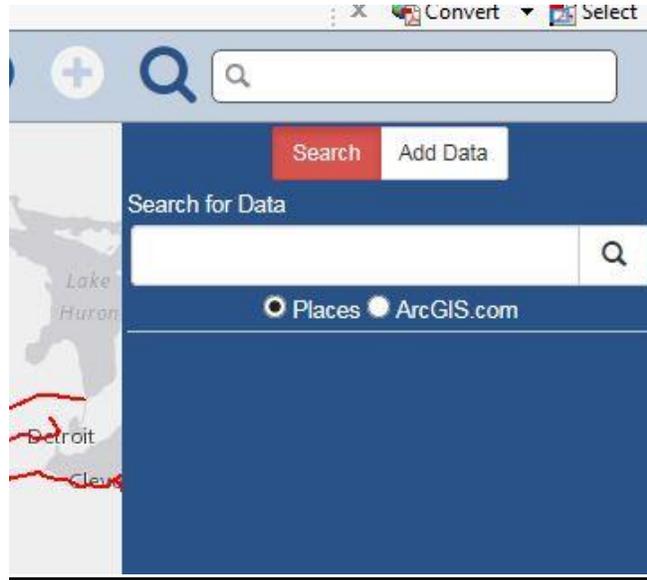
The user can toggle between the basemaps, which are reference layers that are standard geographic maps.



IV. Add Data

a. Search for Data

User can search for other layers online to display on the map. The layer will be added to the Map Content and these layers will be removed once the user closes the web map.



b. Add Layer from Web

User can add the following types of services to display on the map. The layer will be added to the Map Content and will be close the web map.

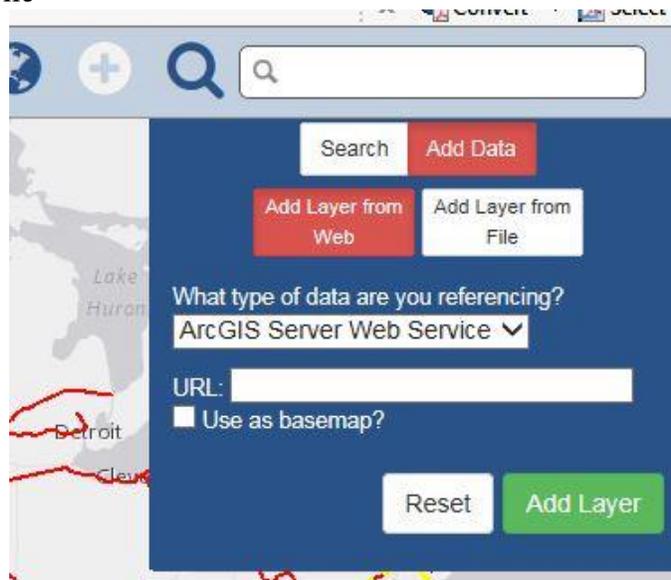
ArcGIS Server Web Service

WMS Services

KML Online File

GeoRRS Online File

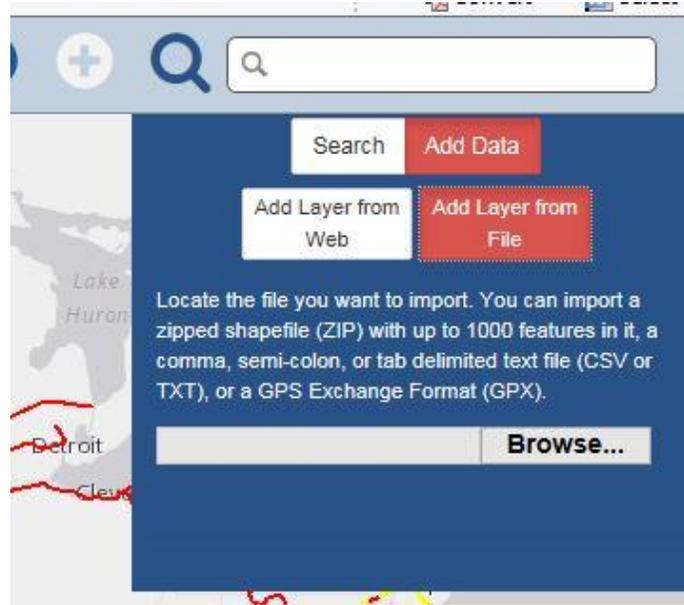
CSV Online File



c. Add Layer from File

Users can local data to display on the map. The layer will be added to the Map Content and will be close the web map.

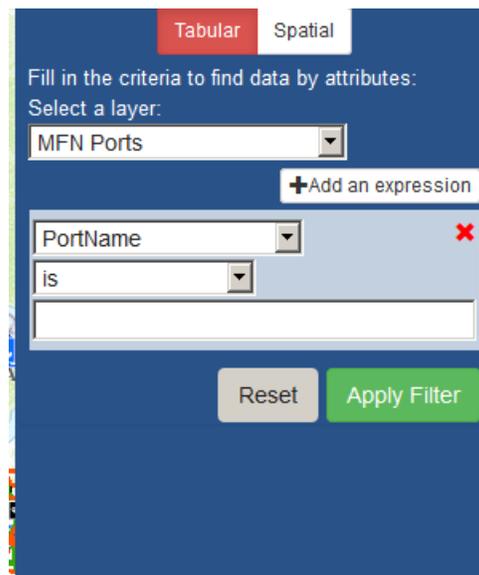
Locate the file you want to import. You can import a zipped shapefile (ZIP) with up to 1000 features in it, a comma, semi-colon, or tab delimited text file (CSV or TXT), or a GPS Exchange Format (GPX).



V. **Selecting Data**

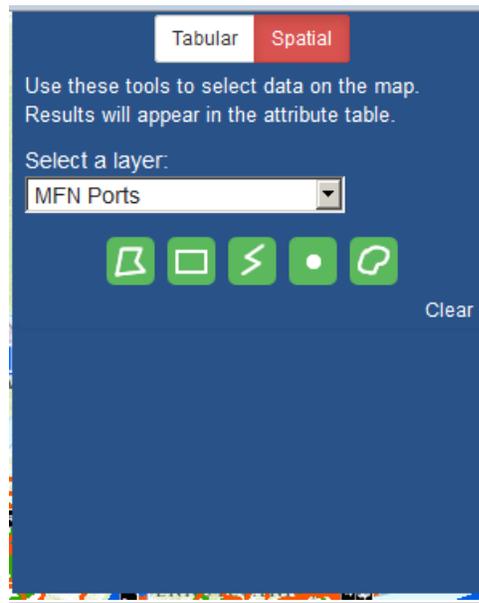
a. Tabular:

Users can select a specific layer and query specific attributes of that layer. The user also has the ability to add additional queries for more specific information.



b. Spatial

Users can select a specific layer and use spatial tools to select the map display.



VI. Working with the Layer

a. Attribute Table

Once the user queries the data or select the data, the data table will display on the bottom of the map. The user will have the ability to create multiple queries.

OBJECTID	STATEAB	RROWNER1	Shape.STLength()
6	AR		0.08469137100972905
7	AR	AKMD	0.0023769736288323513
8	AR	AM	0.02737385492227068
10	AR	FSR	0.38477027373968625
11	AR	KCS	2.419421987985159
12	AR	LRWN	0.029658076379014707
13	AR	UP	14.51409306277109
177	OK	KCS	1.9851758726647906
180	OK	UP	7.930451729505624

b. Options with the Data

The user has several options to work with the data.

- Select All
- Zoom to Selected
- Clear Selection
- Export
- Auto Zoom

The screenshot shows a web map interface. At the top, there are navigation controls: a zoom in (+) and zoom out (-) button, a home button, and a search button. The map displays a road network with a red line representing a railroad crossing. A red circle highlights a specific crossing labeled '000131D'. A scale bar indicates 0.4km and 0.2mi. Below the map is a toolbar with buttons for 'Select All', 'Zoom to Selected', 'Clear Selection', 'Export', and 'Auto Zoom'. A status bar shows '1 selected of 121 records'. Below the toolbar is a table titled 'Rail Crossings 1' with the following data:

OBJECTID	CROSSING	EFFDATE	EDATE	REASON	StateCode
177209	000116B	880103	999999	1	26
177210	000117H	000325	999999	1	26
177212	000131D	000325	999999	1	26
177213	000137U	000325	999999	1	26
177214	000141J	000325	999999	1	26

c. Export the Data

The user has the option to export the data as a Geodatabase, a Shapefile, a KML/KMZ, or as a CSV.

The screenshot shows the same web map interface as above, but with the 'Export' dropdown menu open. The menu options are: 'Esri Geodatabase File' (checked), 'Shapefile', 'KML/KMZ', and 'CSV'. The table below the menu is the same as in the previous screenshot:

OBJECTID	CROSSING	EFFDATE	EDATE	REASON	StateCode
177209	000116B	880103	999999	1	26
177210	000117H	000325	999999	1	26
177212	000131D	000325	999999	1	26
177213	000137U	000325	999999	1	26
177214	000141J	000325	999999	1	26