

The National Map Viewer: Download User Guide

User Instructions

Introduction (Help Box Text)

The viewer is the new one stop destination for downloading USGS vector and raster data.

Download US Topo

To download any of our new GeoPDF topographic maps, turn on the "Download Selectable Polygons" tab on the left side of the viewer. Then turn on the "Digital Map – Beta: Current Available" layer. Then click one of the polygons that draw on the map. An info window will pop-up giving you the download link. New maps are being added every day.

Download Data

To download vector or raster data, turn on the "Download Selectable Polygons" tab on the left side of the viewer. Turn on the "Reference Polygons" layer. By default, counties will turn on if you are zoomed in at or further than 1:4,000,000. Select a county by clicking on it. An info window will pop-up with a link to see the available data. There are four vector data themes currently available for dynamic download: structures, transportation, boundaries, and hydrography. There are three raster data themes available: land cover, elevation and orthoimagery. Depending on the size of the selected polygon, some data themes may be disabled. Select the desired data themes and format and click "Add to cart."

Additional Raster Data Download Notes

If you selected a raster data theme you will see a second page on the available data pop-up showing available products in the selected theme. Select the desired products and click "Add to cart" again. A red bounding box will draw on the map indicating the extent of the selected product. Some high resolution products will return an extent smaller than your selected polygon.

Download Data Checkout

When you have selected all the desired products, click on "Checkout" in the panel on the right side of the viewer. Enter your e-mail address and click "Place order." You will receive an e-mail confirmation shortly.

Reference Polygon Notes

Besides counties, other polygons are available as reference download polygons. Some have pre-staged data available. This data is immediately ready for download. The "State or Territory" layer has pre-staged Geographic Names data. The "Sub-regions" layer has pre-staged National Hydrography Dataset data.

Download Test scenarios

Single polygon / single theme / vector download

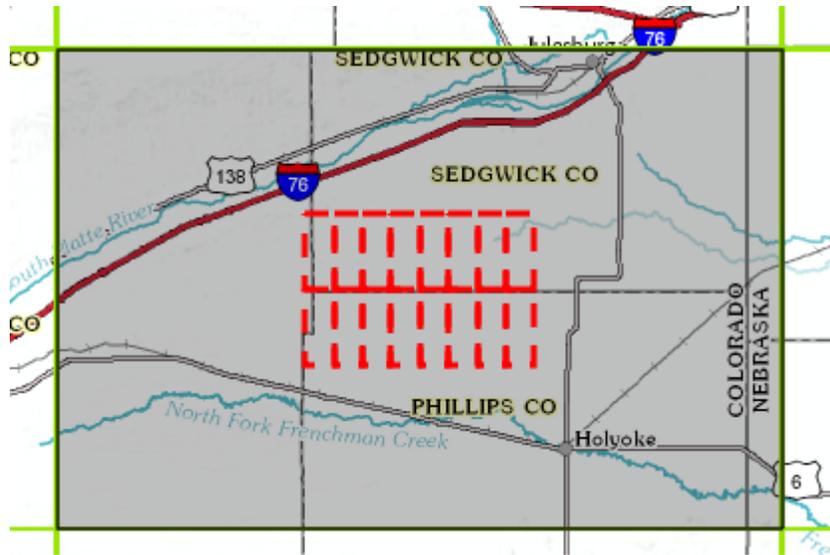
1. Zoom in to about 1:1,155 K.
2. Open Download Selectable Polygons tab
3. Turn on Reference polygons. Counties will come on by default.
4. Click on a county. An info pop-up will show. Click the 'See available data' link.
5. The Available Data pop-up window will show.
6. Select Structures and click 'Add to cart'
7. The cart will open on the right side of the screen. One item will be in it. Click 'Checkout'
8. Enter your e-mail address and click "Place order" .
9. You should get an e-mail right away confirming your order. You should get another e-mail from BP with another confirmation. In a matter of hours or days you will get another e-mail with a download link.

Single polygon / multiple theme / vector and raster download

1. Zoom to 1:2,311,162. Press the 'Clear Graphics' button to remove selected features.
2. Open Download Selectable Polygons tab
3. Turn on Reference polygons. Turn off counties, and turn on Subbasins.
4. Click on a subbasin. An info pop-up will show. Click the 'See available data' link.
5. The Available Data pop-up window will show.
6. Select Hydrography and Elevation and click "Add to cart"
7. The second page of the Available Data pop-up shows because you selected Elevation. After a few seconds you should see a list of products. Click on the product with the product key NED. Then click "Add to cart".
8. A red bounding box will appear around the polygon you selected. This indicates the extent of the Elevation data you will get. If you click on this box you will see a link to download that file directly. A small thumbnail in the info pop-up shows a preview of the image. Click the thumbnail to see a larger preview.

Single polygon / raster theme / download

1. Zoom to 1:2,311,162. Press the 'Clear Graphics' button to remove any previously selected features.
2. Open Download Selectable Polygons tab
3. Turn on Reference polygons. Turn off counties, and turn on Map Indices/100K Index.
4. Click on an index cell. An info pop-up will show. Click the 'See available data' link. The Available Data pop-up window will show.
5. Select Orthoimagery and click "Add to cart".
6. Select one of the NAIP products in the following screen. The product keys for these are N13, N14, N16 etc...
7. Click "Add to cart". You should see 16 bounding boxes drawn on the map, inside the selected 100K cell. This is because the raster service limit is 100 MB and the red boxes are the maximum area that can be returned under 100 MB.



8. Unless already opened, the cart will open on the right side of the screen. The 16 NAIP tiles will be in it. Click 'Checkout'
9. Enter your e-mail address and click "Place order".
10. You should get an e-mail right away confirming your order with the links to download all 16 tiles.

Testing Summary Guide

How is it performed? What is needed to perform the test?

Go to <http://tnm2beta.cr.usgs.gov/viewer>. Use your default browser. Viewer takes about 30 seconds to load. No plug-ins required. In general this is a very basic set of non-technical tests – validating text, images, branding, spelling, etc. The user will then open the overlays, then click on the “Download Reference Polygon” menu.

When is this test necessary? What to look for?

The tester should be familiar with the concept of data distribution and download and in general the concept of eCommerce “shopping carts”. The tester should look for use case of functional flow bugs.

The goal of this test is to try to break the interface framework to assure a real user cannot do such. Try to download too big of a file, try to download variations of polygon requests, different vector and raster products, etc. The tests below should help that.

In general, the goal of the framework is to help retire the other TNM viewers created to support download, so the download framework should support NHD, BP, and Raster downloads as they currently are supported. This release is 1 sprint behind from achieving that goal, but in general most functionality is there.

What is the expected behavior of each component within this track?

The following table explains what expected behavior for each of the components is.

Component	Function	Test
Vector	Test download using reference polygon in single cart request	
Vector	Test download using reference polygon in single cart request with multiple themes	
Vector	Test download using reference polygon in multiple cart request with multiple themes and different polygons of same type	
Vector	Test download using reference polygon in multiple cart request with multiple themes and different polygons of Different polygon type	
Raster	Test download using reference polygon in single cart request for 1 product and 1 theme	
Raster	Test download using reference polygon in single cart request for 1 theme and 1 product	
Raster	Test download using reference polygon in single cart request for multiple themes and 1 product each	
Raster	Test download using reference polygon in single cart request for multiple themes and mix of multiple products	Currently fails on some imagery intersections
Raster	Test download using reference polygon in multiple cart request with multiple themes and different polygons of same type	
Raster	Test download using reference polygon in multiple cart request with multiple themes and different polygons of Different polygon type	
All	Mix above vector and raster requests in single cart	
All	Mix above vector and raster requests in multiple cart requests	

All	Mix above vector and raster requests in multiple cart requests with single polygon types and different polygons of same type	
All	Mix above vector and raster requests in multiple cart requests with single polygon types and different polygons of different types	
Email	Validate Email is same as order request	
Email	Test Raster download links	
Email	Test NHD confirmations or BP Confirmations	
Email	Validate Data received	
Staged	Request a few test area states, get names canned	
Staged	Request a few test area sub-regions, get hydro canned	
Staged	Request a few test area quads, get US Topo canned	
Staged	Request a few test area for elevation canned????	Not sure if ready

Is there anything else I should know?

- This service is calling existing backend services, so the goal of this test is to assure the integration of those integration services. Any enhancements to the back end service itself will be considered an enhancement
- Focus on usability and non-intuitive issues
- In future, the download framework configuration will support connecting to non TNM data sources
- There are currently at least 20 enhancements in the work. Any feature enhancements are well, but the spring roadmap for this service may already have the enhancement. Ideas are welcome.

Also, BPR recommendations currently queued will look to improve the raster usability such as chunking size, where chunking happens, supporting larger polygons, interaction with the archive, and other improvements that will allow user interface improvements – such as previewing raster products overlaid in the viewer, custom polygon requests, importing shape-files, etc.