

# Access TNM Services

<http://viewer.nationalmap.gov/example/services/serviceList.html>

This link provides a number of different types of services. If you are using ArcGIS, I find that the simplest option is to right click on a link and open in a new page (see screenshots, below).

**Background Maps**

| Name   | Type    | URL   | WMS  | Legend |
|--|---------|---|------|--------|
| USGS Topo Base Map - Primary Tile Cache              | tiled   | <a href="http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSTopo/MapServer">http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSTopo/MapServer</a>   | Link |        |
| USGS Topo Base Map - Below 18K Scale Dynamic         | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/USGSTopoLarge/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/USGSTopoLarge/MapServer</a>   | Link |        |
| USGS Imagery Topo Base Map - Primary Tile Cache      | tiled   | <a href="http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSImageryTopo/MapServer">http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSImageryTopo/MapServer</a>   | Link |        |
| USGS Imagery Topo Base Map - Below 18K Scale Dynamic | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/USGSImageryTopoLarge/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/USGSImageryTopoLarge/MapServer</a>                             | Link |        |
| Imagery - Large Scale                                | image   | <a href="http://raster.nationalmap.gov/arcgis/rest/services/Orthoimagery/USGS_EROS_Ortho_SCALE/ImageServer">http://raster.nationalmap.gov/arcgis/rest/services/Orthoimagery/USGS_EROS_Ortho_SCALE/ImageServer</a> | Link |        |
| USGS ImageryOnly Base Map                            | tiled   | <a href="http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSImageryOnly/MapServer">http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSImageryOnly/MapServer</a>   | Link |        |
| NHD Base Map - Primary Tile Cache                    | tiled   | <a href="http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSHydroNHD/MapServer">http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSHydroNHD/MapServer</a>   | Link |        |
| USGS NHD Base Map - Below 18K Scale Dynamic          | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/USGSHydroNHDLarge/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/USGSHydroNHDLarge/MapServer</a>                                   | Link |        |
| USGS Shaded Relief - Primary Tile Cache              | tiled   | <a href="http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSShadedReliefOnly/MapServer">http://basemap.nationalmap.gov/ArcGIS/rest/services/USGSShadedReliefOnly/MapServer</a>                               | Link |        |
| Shaded Relief - Below 18K Scale Dynamic              | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/USGSShadedReliefLarge/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/USGSShadedReliefLarge/MapServer</a>                           | Link |        |
| Base Map - Blank                                     | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/TNM_Blank_US/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/TNM_Blank_US/MapServer</a>   | Link |        |

**Base Data Layers**

| Name                                | Type    | URL   | WMS  | Legend |
|-------------------------------------|---------|---|------|--------|
| US Topo Availability                | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/US_Topo_Availability/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/US_Topo_Availability/MapServer</a>                             | Link |        |
| Geographic Names (GNIS)             | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/geonames/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/geonames/MapServer</a>   | Link |        |
| Structures                          | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/structures/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/structures/MapServer</a>   | Link |        |
| Transportation                      | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/transportation/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/transportation/MapServer</a>   | Link |        |
| Governmental Unit Boundaries        | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/govunits/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/govunits/MapServer</a>   | Link |        |
| Map Indices                         | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/map_indices/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/map_indices/MapServer</a>   | Link |        |
| Hydrography (NHD)                   | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/nhd/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/nhd/MapServer</a>   | Link |        |
| National Land Cover Database (NLCD) | dynamic | <a href="http://raster.nationalmap.gov/arcgis/rest/services/LandCover/USGS_EROS_LandCover_NLCD/MapServer">http://raster.nationalmap.gov/arcgis/rest/services/LandCover/USGS_EROS_LandCover_NLCD/MapServer</a>     | Link |        |
| Elevation Availability              | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/ElevationAvailability/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/ElevationAvailability/MapServer</a>                           | Link |        |
| Elevation Contours - Small Scale    | tiled   | <a href="http://basemap.nationalmap.gov/ArcGIS/rest/services/TNM_Contours/MapServer">http://basemap.nationalmap.gov/ArcGIS/rest/services/TNM_Contours/MapServer</a>   | Link |        |
| Imagery - 1 meter                   | image   | <a href="http://raster.nationalmap.gov/arcgis/rest/services/Orthoimagery/USGS_EROS_Ortho_NAIP/ImageServer">http://raster.nationalmap.gov/arcgis/rest/services/Orthoimagery/USGS_EROS_Ortho_NAIP/ImageServer</a>   | Link |        |
| Imagery - 1 foot                    | image   | <a href="http://raster.nationalmap.gov/arcgis/rest/services/Orthoimagery/USGS_EROS_Ortho_1Foot/ImageServer">http://raster.nationalmap.gov/arcgis/rest/services/Orthoimagery/USGS_EROS_Ortho_1Foot/ImageServer</a> | Link |        |
| Reference Polygons                  | dynamic | <a href="http://services.nationalmap.gov/ArcGIS/rest/services/selectable_polygons/MapServer">http://services.nationalmap.gov/ArcGIS/rest/services/selectable_polygons/MapServer</a>                               | Link |        |

**Natural Hazards**

| Name  | Type    | URL   | WMS  | Legend |
|---|---------|---|------|--------|
| USGS US Hazards   | dynamic | <a href="http://igems.doi.gov/ArcGIS/rest/services/igems_haz/MapServer">http://igems.doi.gov/ArcGIS/rest/services/igems_haz/MapServer</a>               | Link |        |
| USGS Stream Flow & Weather Stations   | dynamic | <a href="http://igems.doi.gov/ArcGIS/rest/services/igems_info/MapServer">http://igems.doi.gov/ArcGIS/rest/services/igems_info/MapServer</a>             | Link |        |
| FEMA National Flood Hazards   | dynamic | <a href="https://hazards.fema.gov/gis/nfl/rest/services/public/NFHL/MapServer">https://hazards.fema.gov/gis/nfl/rest/services/public/NFHL/MapServer</a> | Link |        |
| Watches & Alerts  | dynamic | <a href="http://igems.doi.gov/ArcGIS/rest/services/igems_haz/MapServer">http://igems.doi.gov/ArcGIS/rest/services/igems_haz/MapServer</a>               | Link |        |
| <small>services.nationalmap.gov/ArcGIS/rest/services/transportation/MapServer</small> |         | <small>tp://services.nationalmap.gov/ArcGIS/rest/services/NEXRAD_Weather/MapServer</small>  | Link |        |



## The National Map

ArcGIS REST Services Directory

[Home](#) > [services](#) > [transportation \(MapServer\)](#)

[JSON](#) | [SOAP](#) | [WMS](#)

### transportation (MapServer)

View In: [ArcGIS JavaScript](#) [ArcGIS.com Map](#) [Google Earth](#) [ArcMap](#) [ArcGIS Explorer](#)

View Footprint In: [ArcGIS.com Map](#)

**Service Description:** See <http://viewer.nationalmap.gov/help> for assistance with The National Map viewer, services, or metadata.

**Map Name:** Layers

[Legend](#)

[All Layers and Tables](#)

**Layers:**

- [Labels](#) (0)
  - [Airport labels](#) (1)
  - [Interstate labels](#) (2)
  - [US Route labels](#) (3)
  - [State Route labels](#) (4)
  - [County Route labels](#) (5)
  - [Local Road labels](#) (6)
- [Features](#) (7)
  - [Airport](#) (8)
  - [Airport Runway](#) (9)
  - [Interstate](#) (10)
  - [US Route](#) (11)
  - [State Route](#) (12)
  - [County Route](#) (13)
  - [US Railroad](#) (14)
  - [Local Road](#) (15)

**Description:**

**Copyright Text:** USGS TNM - National Transportation Dataset, U.S. Census Bureau - TIGER/Line

**Spatial Reference:** 4326 (4326)

**Single Fused Map Cache:** false

Then, left click on the ArcMap Link (red box, above). This will automatically download an ArcGIS Layer file that you can open up in ArcMap. I've opened the Transportation Base Data Layer (screenshots, below).

NOTE: many of the services are scale dependent. The Transportation Base Data Layer automatically changes content as you zoom in and out.

NOTE: remember that any transportation services and/or data that you download will be US Census TIGER data.



# Access and Download TNM Data

<http://nationalmap.gov/>

Click on “The National Map Viewer & Download Platform” link at the top left (see red box in screenshot, below).

The screenshot shows the USGS National Map website. At the top left, a red box highlights the link "The National Map Viewer & Download Platform" in the navigation menu. The main content area features a section titled "I want to make a map..." with several bullet points and images. Below this is a "News you can use about USGS Mapping Products" section dated June 9, 2014, with three articles: "Discover the Northwest with Revised Montana Maps", "Want to know how elevation will benefit your state?", and "Antietam Battlefield Area - 130 Years of Maps". The right sidebar contains a "Tweets" section with several tweets from @USGSTNM and @USGSStore.

**The National Map Viewer & Download Platform**

**I want to make a map...**

- You can make your own maps of America using hundreds of authoritative map themes in the [National Atlas of the United States](#).
- If you want the most up-to-date edition of our famous topographic quadrangle map that contains the latest digital improvements to include an image layer, try the [US Topo](#).
- To search for, view, and download any of the more than 200,000 USGS Topographic Maps dating back to 1884, go to the [Historical Topographic Map Collection](#).
- To preview and download data that is available in the public domain, more experienced map makers and professional geographic information users should try [The National Map Viewer](#).

**News you can use about USGS Mapping Products**  
June 9, 2014

**Discover the Northwest with Revised Montana Maps:** Just in time to explore the great outdoors this summer, 2,913 newly designed [US Topo maps](#) covering Montana are now available for free download. The new quadrangles have a crisper, cleaner design - enhancing readability of maps for online and printed use. The previous versions of US Topo maps for Montana and scanned images of the entire USGS map library of topographic maps from the period 1884-2006 can be downloaded from the [USGS Historical Topographic Map Collection](#). These scanned images of legacy paper maps, as well as the US Topo maps, are available at no cost from [The National Map](#) and the USGS Map Locator & Downloader [websites](#). <http://gn.doi.gov/1IS4IS>

**Want to know how elevation will benefit your state?** The USGS [National Geospatial Program](#) is advancing the 3D Elevation Program, known as [3DEP](#), in response to the growing need for high-quality three-dimensional representations of the Nation's natural and constructed features. 3DEP uses modern technologies like lidar and ifsar to collect high-density elevation data over the U.S. These data are essential to a broad range of applications and support a large range of business uses including national security, wildlife and habitat management, water resource management, and geologic hazards mitigation, to name a few. Currently, there are 24 3DEP state-specific fact sheets available on the [3DEP](#) or [The National Map](#) websites. <http://gn.doi.gov/1b0qCZ>

**Trivia Challenge:** The USGS online service called Streamer lets users visualize what? For the answer to this - and other fun science trivia question - go to the [Science.gov](#) website. The USGS, as part of 15 Federal science and research agencies who make up the Science.gov alliance, is sponsoring "trivia challenge" questions that are posted on the [Science.gov](#) Twitter site. To get the answer to these questions, you will be taken to the Science.gov Trivia challenge page, where you can get the correct answer, more details and see previous questions from other agencies. So, go ahead, and take the challenge! <http://go.usa.gov/b2u5>

**Antietam Battlefield Area - 130 Years of Maps:** The US Topo map and Historical Topographic Map Collection websites have updated the interactive map application to those home pages. The new series features 11 topographic maps of the Keedysville, Maryland area, which features parts of the Antietam Civil War battlefield. The maps range from 1884 to the present and include different scales. These flash thumbnails of original scanned maps display all available versions of the Keedysville/Antietam/Middletown/Harper's Ferry quadrangles in an animated format. The display allows the user to view the maps in chronological order, access a larger version of the map and go directly to the free download services. <http://1.usa.gov/1RSGVx>, <http://1.usa.gov/HgBHfW>

**Tweets**

- [The National Map](#) @USGSTNM 2h  
cmf2014 & William Rotondo earn Surveyor's Chain badge! Welcome to #TNMCCops data volunteers. [bit.ly/1b0qI2](http://bit.ly/1b0qI2) #USGS #GIS #VGI ♡ Rolla, MO, United States
- [USGS](#) @USGS 10h  
Drought Conditions in California [on.doi.gov/1k3B85](http://on.doi.gov/1k3B85)  
#TransformationTuesday  
[pic.twitter.com/1YhA86ThWW](http://pic.twitter.com/1YhA86ThWW)  
t1 Retweeted by The National Map  
@ Show Photo
- [USGS Store](#) @USGSStore 9 Jun  
Congratulations to @feedyourpig this week's #FreeMapMonday winner! Be sure to enter again next week! #happyMonday  
t3 Retweeted by The National Map  
Expand
- [USGS in Wisconsin](#) @USGS\_WI 9 Jun  
Take a look at the NED Shaded Relief images the USGS provides for your state! [on.doi.gov/1n2n48Y](http://on.doi.gov/1n2n48Y)  
#MappingMonday  
[pic.twitter.com/0WqLLVhHC](http://pic.twitter.com/0WqLLVhHC)  
t3 Retweeted by The National Map  
@ Show Photo
- [USGS Store](#) @USGSStore 9 Jun  
This week will also begin USGS Store #TBT! We'll be showing off our beautiful historical maps each Thursday, so keep an eye out for that!  
t1 Retweeted by The National Map  
Expand

Next, click on the link to open TNM Viewer (red box, below).



## The National Map

### The National Map Viewer and Download Platform

Use *The National Map* Viewer and Download Platform to visualize, inspect, and [download](#) our most current topographic base map data and products for free. Managed by the USGS National Geospatial Program (NGP), *The National Map* Viewer provides access to all eight primary data themes of *The National Map* to include US Topo and historical topographic map products. The viewer platform is extended upon the National Geospatial Intelligence Agency's (NGA) Palantir x3 Viewer.

Data include: [Elevation](#), [Orthoimagery](#), [Hydrography](#), [Geographic Names](#), [Boundaries](#), [Transportation](#), [Structures](#), and [Land Cover](#), while products include: [US Topo](#) and [Historical Topo Maps](#). *The National Map Viewer* also allows visualization and identification queries (but not downloads) of Other Featured Data, to include Scanned Topo Maps, Ecosystems, Protected Areas, Gap Analysis Program Land Cover, Wetlands, Public Land Survey System, and National Park Service Boundaries. Also included is a Natural Hazards panel to view hazards-related information, such as for earthquakes, floods, wildfires, and weather, along with the U.S. National Grid for emergency response.

To research and download historical USGS data, such as Digital Orthophoto Quadrangles or older high resolution orthoimagery and Digital Line Graphs, or to access lidar point cloud data, go to [Earth Explorer](#).

[Click here to go to \*The National Map Viewer\* and Download Platform !](#)

[Help](#) - What's New, Quick Guide, Base Maps, Map Display, Toolbox, Search, Overlays, Selection, Download

FAQs - [The National Map Viewer FAQs](#)

[Services List](#) - Web map service endpoints used in *The National Map Viewer*

**New:** [Using TNM services to enable your web and mobile mapping efforts](#)

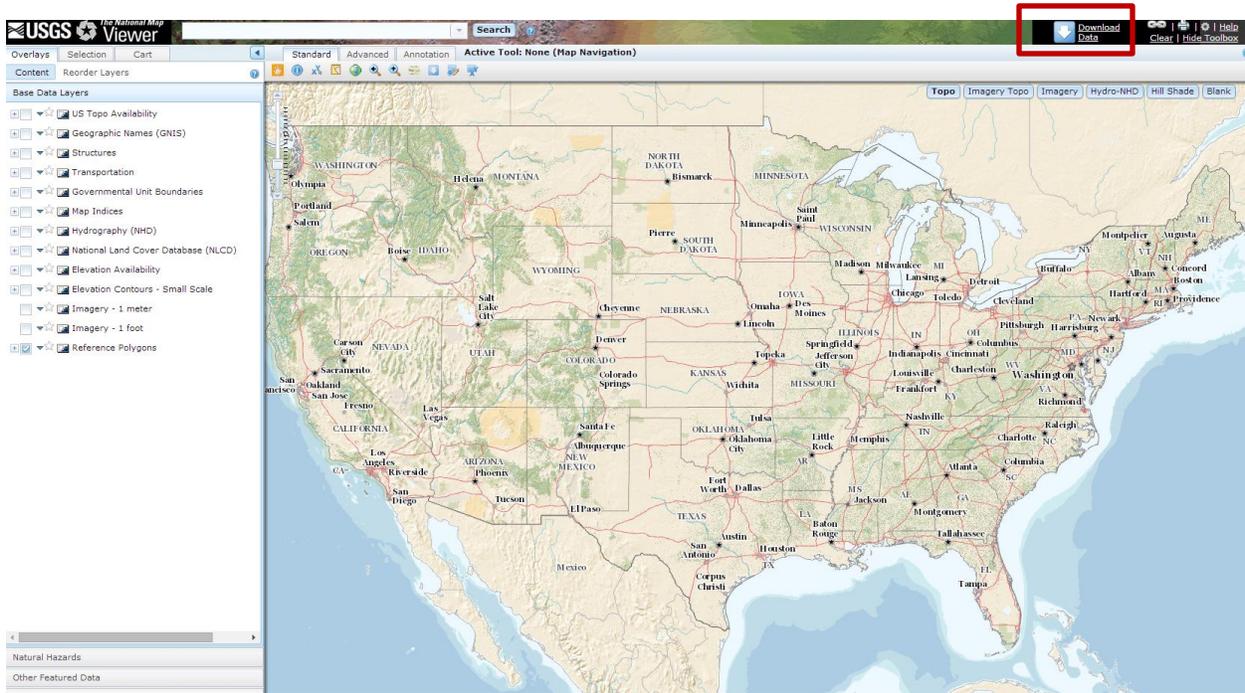
**Notice:** [Data Delivery Updates: Upcoming Changes to Downloadable Products from \*The National Map Viewer\*](#)



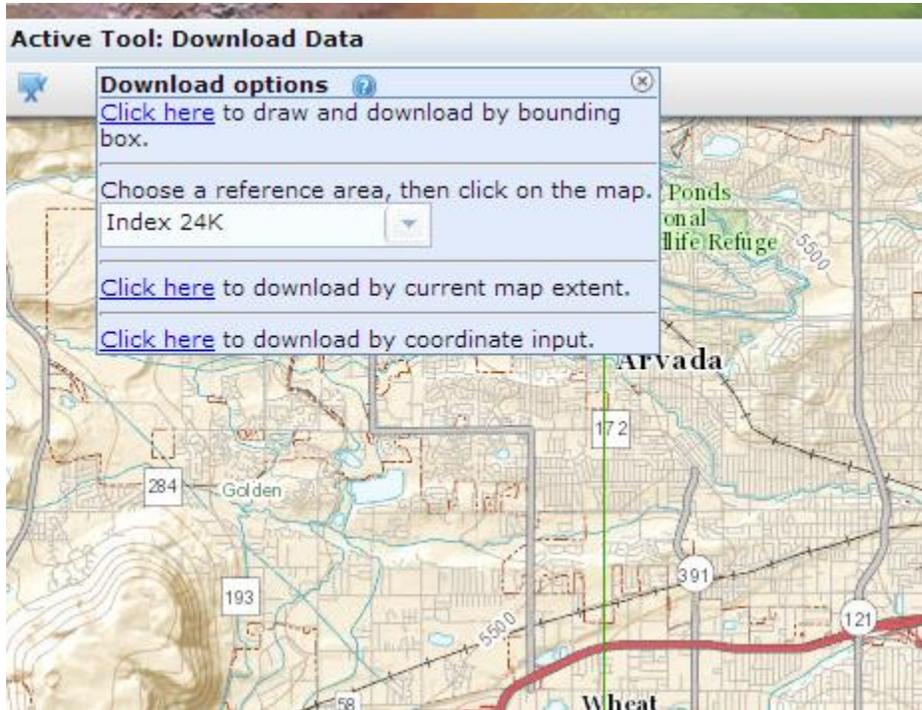
USGS National Geospatial Program  
The National Map Viewer  
-Fast Base Map  
-100% National Map Content  
[Click here to go to the Viewer](#)

**Recommended Browsers:** [Firefox](#) - [Chrome](#) - [Internet Explorer 7 or higher](#)  
**Can't see Flash?** Install [Flash Player](#) or view [text version](#).

Next, zoom into your area of interest on the map and then click on the Download Data link at the top right (red box, below).



This will pull up a Download Options menu that allows you to choose a specific area of interest, by bounding box, reference area (pull-down menu), current map extent, or coordinate input.

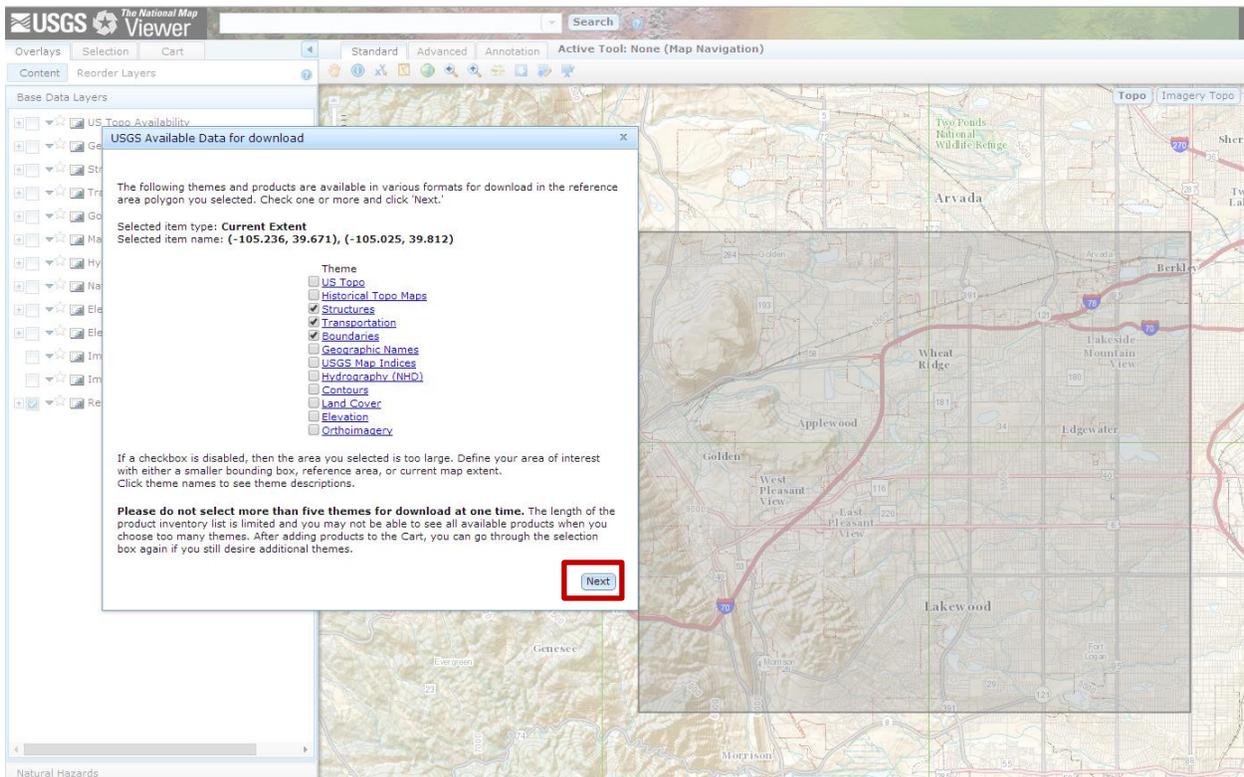


Click on your method of choice (I like the bounding box option).

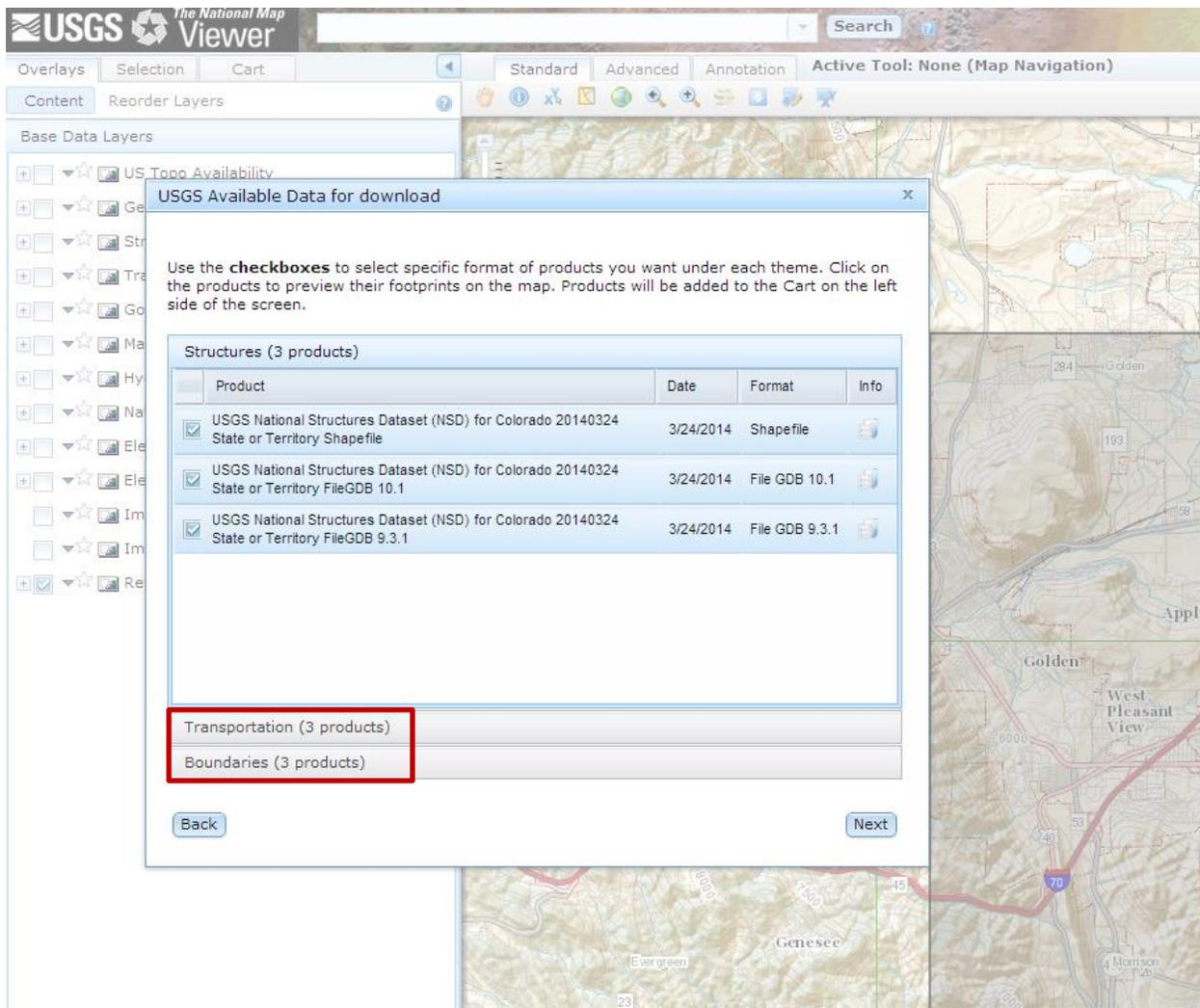
Once you identify your area of interest a menu will pop up for selecting the data layers that you wish to download. Click on the box next to your preferred layers.

NOTE: The Land Cover layer is the raster National Land Cover Dataset, NOT the woodland vector polygons used on the US Topo.

NOTE: remember that any transportation services and/or data that you download will be US Census TIGER data.



Click on Next (red box, above) and another menu pops up to display the specific listing of data available for your selected area of interest. Check the boxes you're interested in and click on Next. Note the tabs for each of the data themes (red box, below). Click on each tab to show the individual data layers for each theme.



Once you've selected all data layers you're interested in, Click on Next at the bottom right of the popup menu.

The Cart (left side of the screenshot, below) shows the data layers you have requested for download.

The screenshot shows the USGS National Map Viewer interface. The top navigation bar includes the USGS logo, 'The National Map Viewer' text, a search bar, and tabs for 'Overlays', 'Selection', and 'Cart'. The 'Cart' panel is active, displaying instructions and a table of selected items. The 'Checkout' button is highlighted with a red box. The main map area shows a topographic map with contour lines and labels like 'Ralston Butte' and 'Beaver Brook'.

Overlays Selection Cart Standard Advanced Annotation Active Tool: None (Map M

Cart

Add items to the cart by using the "Download Data" tool in the "Standard" panel.

Click on an item in the cart to see a preview (when available) and product footprint.

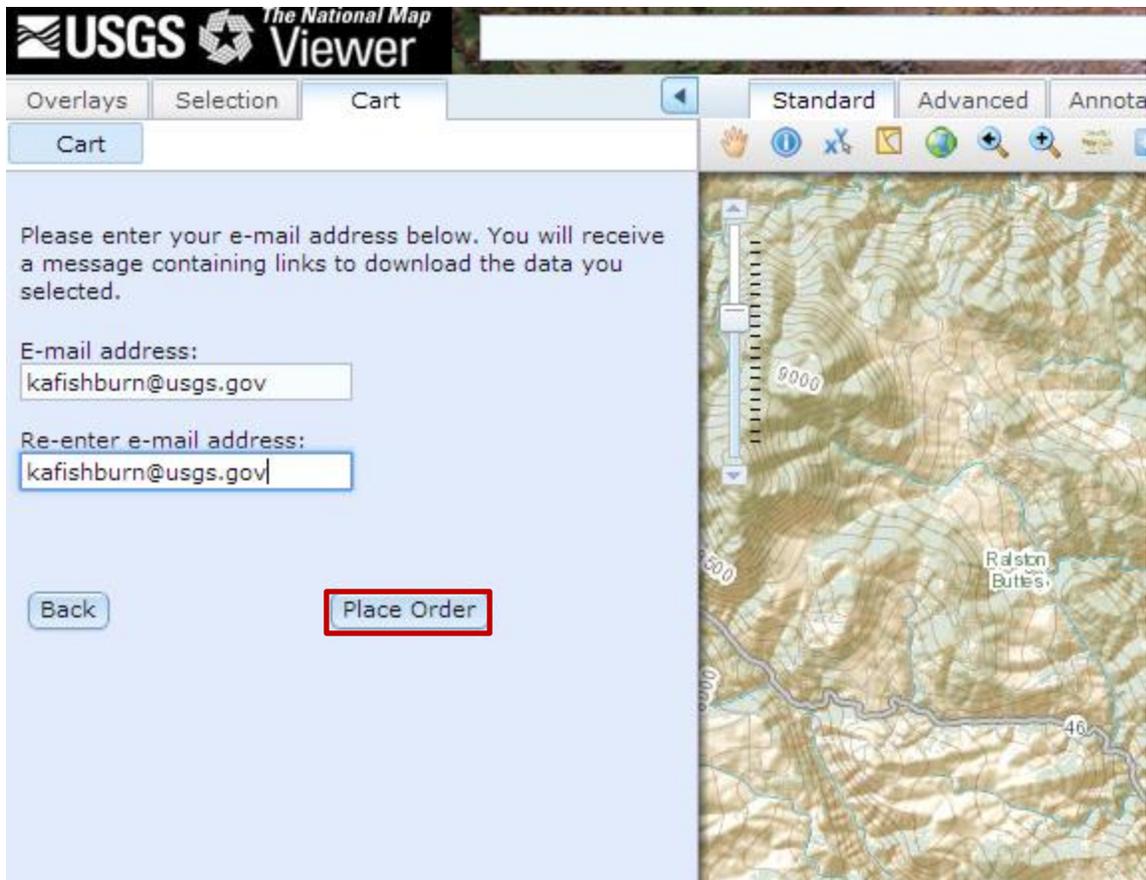
Selected items:

| Product  | Type/Name  | Format        |
|--|--|---------------|
| USGS National Structures Dataset (NSD) for Colorado 20140324 State or Territory Shapefile    | Current<br>Extent/(-105.236, 39.671), (-105.025, 39.812) | Shapefile     |
| USGS National Structures Dataset (NSD) for Colorado 20140324 State or Territory FileGDB 10.1 | Current<br>Extent/(-105.236, 39.671), (-105.025, 39.812) | File GDB 10.1 |

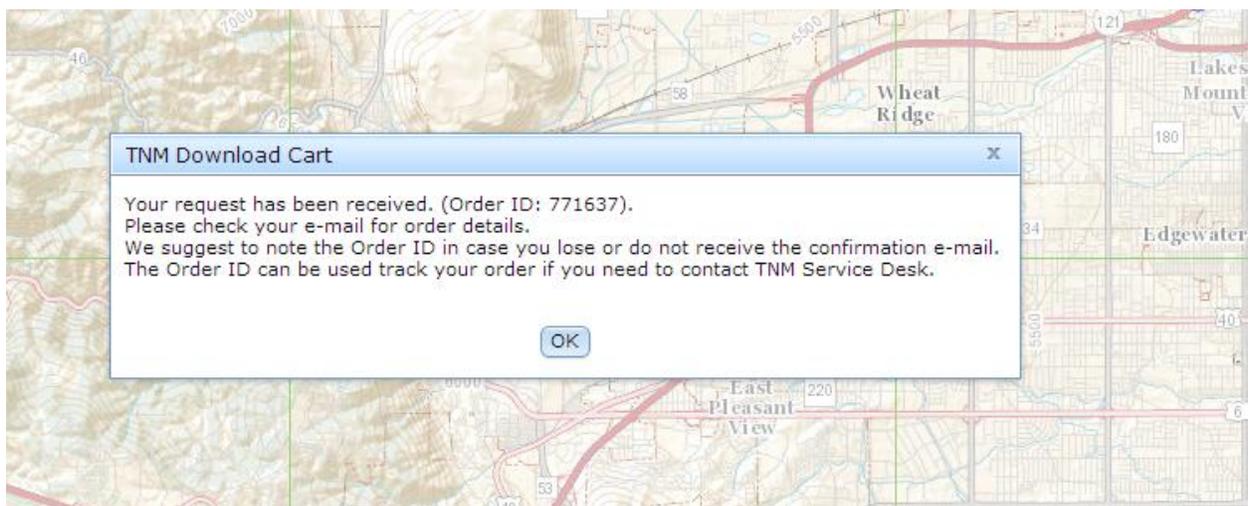
Remove selected Checkout Clear cart Add More

Preview:

Click on Checkout (red box, above) when you have reviewed your list. You will be prompted for your email address. Type it in twice as prompted and click on Place Order (red box, below).



You will receive the following popup to indicate your order has been submitted. Check your email for a link to download the data (zipped) from the USGS ftp sites.



EMAIL sample:

The National Map Viewer Order #771637 (Do Not Reply) Inbox x



The National Map Viewer  
to me

12:16 PM (3 minutes ago) ☆



Thank you for your recent data order placed with The National Map Viewer. Below are the details of your order with specific instructions.

Order ID: 771637

**Structures** - Below are the links to download the data you requested.

| Product   | Extracted by  | Format         | Download Link                          |
|---|---|----------------|--|
| USGS National Structures Dataset (NSD) for Colorado 20140324 State or Territory Shapefile     | Current Extent/(-105.236, 39.671), (-105.025, 39.812) | Shapefile      | <a href="#">Click here to download</a> |
| USGS National Structures Dataset (NSD) for Colorado 20140324 State or Territory FileGDB 10.1  | Current Extent/(-105.236, 39.671), (-105.025, 39.812) | File GDB 10.1  | <a href="#">Click here to download</a> |
| USGS National Structures Dataset (NSD) for Colorado 20140324 State or Territory FileGDB 9.3.1 | Current Extent/(-105.236, 39.671), (-105.025, 39.812) | File GDB 9.3.1 | <a href="#">Click here to download</a> |

Download footprint data: [KML](#)

NOTE: Your order has been processed by The National Map 2.0 Viewer and Download toolset. If you have a problem with any of our products, please review our Frequently Asked Questions (FAQs) to determine if an answer has already been documented. Go to <http://viewer.nationalmap.gov/help> to access our FAQs.

Regards,  
The National Map Viewer and Download Team  
<http://nationalmap.gov>



Click here to [Reply](#) or [Forward](#)

**QUICK START GUIDE** can be found here, for more detailed information on using TNM Viewer:

<http://viewer.nationalmap.gov/help/The%20National%20Map%20Viewer%20Quick%20Start%20Guide.htm>