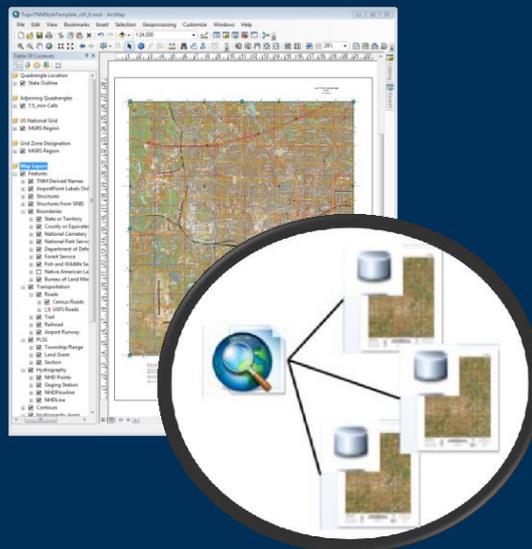


USGS Topo TNM Style Template

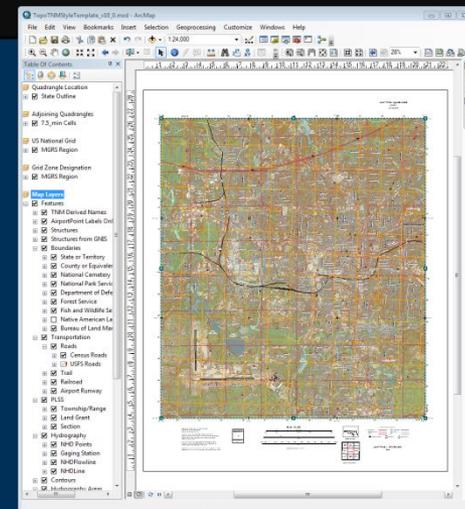


Objective

- Provide an efficient, ‘one-stop shopping’ approach to secure GIS-ready map data configured to US Topo map layout and cartographic design
 - ✓ Requirement originated with Geologic Mapping and Hazards (GMH) Community of Use (COU) (2011)
 - ✓ Applicable to:
 - ✓ Natural Resources Conservation (NRC) COU
 - ✓ Water Resources COU
 - ✓ USGS scientists
 - ✓ Private industry

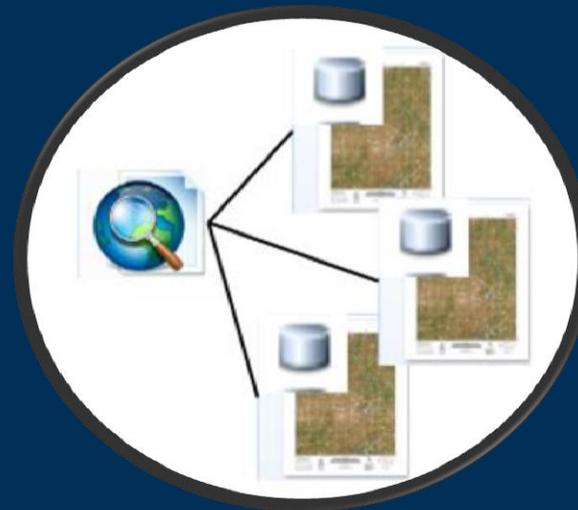
Description: Template

- **Delivered as a zip file via TNM Web Site**
 - ✓ <http://viewer.nationalmap.gov/tools/topotemplate/>
 - ✓ <http://viewer.nationalmap.gov/basic/> (Topo Map Data and Style Sheet section)
- **ArcMap document (mxd)**
 - ✓ US Topo map cartographic design
 - ✓ Layout, labeling and symbology
 - ✓ Service links for imagery, shaded relief, and Fish and Wildlife Service (FWS) National Wetlands Inventory (NWI)
- **Ancillary Data and Files**
 - ✓ User Guide to tailor the template
 - ✓ Publicly available Military Grid Reference System (MGRS) data for representing US National Grid and Zone Designations in marginalia
 - ✓ NGTOC-produced table containing data for manually tailoring the map layout



Description: Data

- **Single template can be used in any geographic area where TNM data is available for download**
 - ✓ <http://viewer.nationalmap.gov/basic/>
- **Best suited for use with Topo Map Vector Data products**
 - ✓ **Esri File Geodatabase containing all vector data themes**
 - ✓ Hydrography
 - ✓ Transportation
 - ✓ TNM Derived Names
 - ✓ Structures
 - ✓ Boundaries
 - ✓ Elevation Contours
 - ✓ Woodland Polygons
 - ✓ 7.5-minute Cells



Description: Data



■ TNM Derived Names

- ✓ Filtered and enriched content extracted from Geographic Names (GNIS)
- ✓ May be used in the Topo TNM Style Template for symbolizing and labeling named features
- ✓ Provided only in conjunction with Topo Map Vector Data products
- ✓ Due to the filtering process, it does not include all GNIS names available in the standard GNIS dataset

Website – TNM Homepage



USGS Home
Contact USGS
Search USGS

The National Map

TNM Home About TNM News & Events Information Products CEGIS Small-Scale Standards & Specs Geospatial Data Contracts FAQs Contact Us Social Media

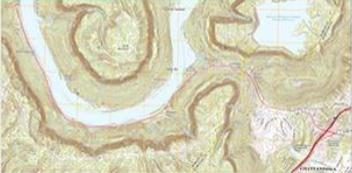
[NGP Intranet](#)



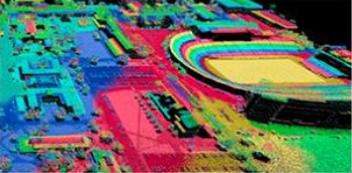
The National Map
Your Source for Topographic Information

All USGS This site only

US Topo



3D Elevation Program



National Hydrography Data Set



Historical Topographic



Maps	Elevation	Hydrography
Geographic Names	Transportation	Structures
Boundaries	Orthoimagery	Land Cover

Find Data + View & Download



Website – TNM Download

The screenshot displays the 'TNM Download' web application. The browser address bar shows 'viewer.nationalmap.gov/basic/'. The page features a navigation bar with the USGS logo and 'The National Map' branding. Below the navigation bar, there are links for 'How to', 'Start Over', 'Custom Views', and 'Share Link'. The main interface is divided into a left sidebar and a central map area. The sidebar contains a 'Datasets' section with a 'Find Products' button and a list of search options under 'Advanced Search Options'. The central map area shows a topographic map of the United States with various search filters and a search bar. The map includes a scale bar (500 km / 300 mi) and a 'Lat/Lng' field showing '60.9731, -75.5269'. The footer of the page contains links for 'Accessibility', 'FOIA', 'Privacy', and 'Policies and Notices'.

Navigation: USGS, The National Map, TNM Download (V1.0), How to, Start Over, Custom Views, Share Link, Contact Us

Search Options: Use Map (checked), Box/Point, Current Extent, Coordinates, Located Point, Polygon; Map Indices, 1 Degree, 15 Minute, 7.5 Minute, All

Search Bar: Address/Place, Search location, Go, Clear

Map Area: Shows a topographic map of the United States with state boundaries and major cities labeled. Includes a scale bar (500 km / 300 mi) and a 'Lat/Lng' field showing '60.9731, -75.5269'.

Footer: Accessibility, FOIA, Privacy, Policies and Notices



<http://viewer.nationalmap.gov/basic/>



Website – TNM Download

The screenshot displays the TNM Download website interface. At the top, the browser address bar shows `viewer.nationalmap.gov/basic/`. The USGS logo is on the left, and 'The National Map' logo is on the right. Below the navigation bar, the page title is 'TNM Download (V1.0)' with links for 'How to', 'Start Over', 'Custom Views', and 'Share Link'. A 'Contact Us' link is also present.

The main content area is divided into two panels. The left panel, titled 'Datasets', contains a 'Find Products' button and a list of search options. Under 'Advanced Search Options', several categories are listed with checkboxes: Imagery - 1 foot (HRO), Imagery - 1 meter (NAIP), Map Indices, Names - Geographic Names Information System (GNIS), National Land Cover Database (NLCD), Small-scale Datasets, Structures - National Structures Dataset, and Topo Map Data and Topo Stylesheet (which is checked). Below this is a 'Product Search Filter' section with options for File Format (FileGDB 10.1 selected, Shapefile), Data Extent (7.5 x 7.5 minute), and an 'Availability legend' link. At the bottom of the filter panel are checkboxes for 'Transportation' and 'Woodland Tint'. A small thumbnail image of a map is shown next to the 'Description Stylesheet Zip' link.

The right panel features a map interface. At the top, there are radio buttons for 'Use Map' (checked), 'Box/Point', 'Current Extent', 'Coordinates', 'Located Point', and 'Polygon'. Below these are radio buttons for 'Map Indices' and '1 Degree', '15 Minute', '7.5 Minute', and 'All'. A search bar labeled 'Address/Place' with a 'Search location.' input field and 'Go' and 'Clear' buttons is present. The map itself is a topographic map showing contour lines, rivers, and roads. A red polygon is drawn on the map, and a blue rectangle highlights a specific area. The map includes a scale bar (2 km and 1 mi) and a north arrow. The coordinates 'Lat/Lng 39.1878, -106.5350' are displayed at the bottom left of the map area.

At the bottom of the page, there are links for 'Accessibility', 'FOIA', 'Privacy', and 'Policies and Notices'.

Website – TNM Download

TNM Download (V1.0) [How to](#) [Start Over](#) [Custom Views](#) [Share Link](#)

[Datasets](#) [Products](#)

Available Products [Return to Search](#) [View Cart](#)

Topo Map Data and Topo Stylesheet [Save as CSV](#) **8** results

1

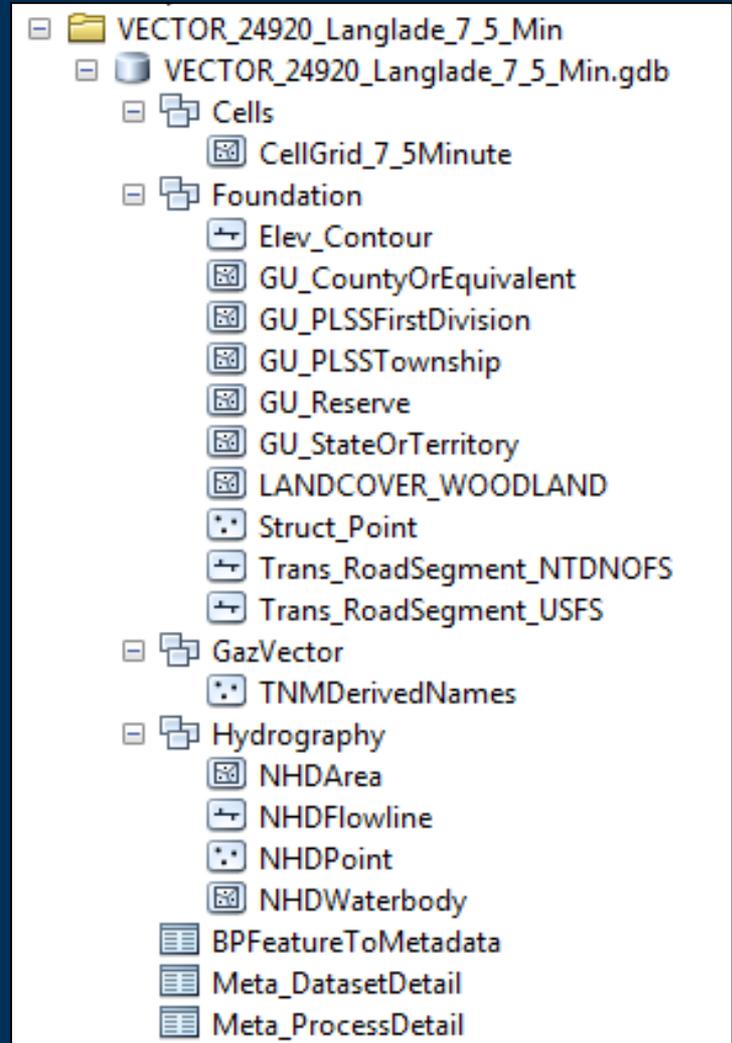
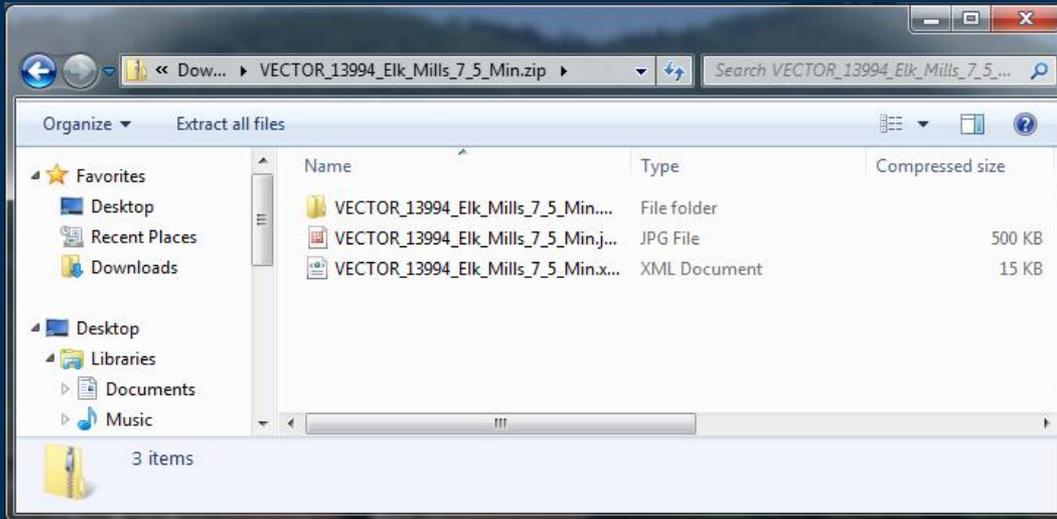
Preview	Product	Actions	Cart
	USGS Combined Vector for Leadville North, Colorado 20150620 7.5 x 7.5 minute FileGDB 10.1 Published Date: 2015-06-20 Metadata Updated: 2016-04-28 Format: FileGDB 10.1 (2.76 MB), Extent: 7.5 x 7.5 minute	Footprint Thumbnail Zoom To Info/Metadata Download	 
	USGS Combined Vector for Homestake Reservoir, Colorado 20150620 7.5 x 7.5 minute FileGDB 10.1 Published Date: 2015-06-20 Metadata Updated: 2016-04-28 Format: FileGDB 10.1 (2.32 MB), Extent: 7.5 x 7.5 minute	Footprint Thumbnail Zoom To Info/Metadata Download	 
	USGS Combined Vector for Mount Massive, Colorado 20150620 7.5 x 7.5 minute FileGDB 10.1 Published Date: 2015-06-20 Metadata Updated: 2016-04-28 Format: FileGDB 10.1 (3.10 MB), Extent: 7.5 x	Footprint Thumbnail Zoom To Info/Metadata Download	 


Actions for all displayed products: [Show Footprints](#) / [Show Thumbnails](#)

Use Map
 Map Indices
Address/Place




Topo Map Vector Data: Zip File Contents



Website – Topo TNM Style Template Homepage

The screenshot shows a web browser window with the URL viewer.nationalmap.gov/tools/topotemplate/. The page features the USGS logo and 'The National Map' branding. The main content area is titled 'Topo TNM Style Template' and contains the following text:

Topo TNM Style Template

A NEW GIS-READY TOPOGRAPHIC MAP STYLE TEMPLATE!

The Topo TNM Style Template can be readily used with the Topo Combined Vector Product (recently renamed "Topo Map Vector Data products") and other data available for download from *The National Map* (TNM). The template and TNM data are intended to be used together to quickly provide the GIS user with a fully customizable map in the style of US Topo maps using the most current TNM data.

The Topo TNM Style Template is provided by the U.S. Geological Survey (USGS) National Geospatial Technical Operations Center (NGTOC). It has been developed according to the 24,000-scale, 7.5-minute layout and cartographic design of published US Topo Maps and is intended for use in any geographic location where data is available for download from TNM. The template is provided as an Esri-specific solution (ArcGIS v10.0 map document (mxd)) for the benefit of USGS earth scientists and other scientific professionals who have a requirement for symbolized and annotated topographic base map layers to support advance Geographic Information System (GIS) analysis and mapping. Symbolized map layers, links to Web Map Services, labeling rules, grids, standard map layout, and marginalia information are included in the template. Ancillary data for tailoring the template is provided along with the template in an Esri file geodatabase (v10.x). The USGS recognizes that this solution only meets the needs of end users dependent upon Esri products. Research continues into alternative formats.

This template may be used with any TNM datasource available for download and can easily be extended with any data layers according to end user needs. For best results in symbolization and labeling, it is recommended to be used with Topo Map Vector Data products. These products are currently under production and many are now available for download from [TNM Downloader](#).

The Topo Map Vector Data products are one specific type of staged product intended for a variety of GIS and cartographic applications, including use with the Topo TNM Style Template. These products are staged at a 7.5-minute footprint that corresponds with a single US Topo Map extent. They will contain four feature datasets that include feature classes from all TNM Vector data themes, including Elevation Contours, Government Units (Boundaries), Woodland Tint polygons, Structures, Transportation, Hydrography, TNM Derived Names, and 7.5-minute map cells.

The following items are available for download:

1. [Zip file](#) containing the template, tailoring data contained in a file geodatabase, and tailoring instructions in PDF.
2. [Frequently Asked Questions document](#) in PDF.
3. Topo TNM Style Template [Metadata](#), [FAQ](#), [Text](#), and [XML](#).

Questions/comments are welcome and should be referred to Kristin Fishburn (kfishburn@usgs.gov).

The screenshot also shows a thumbnail image of a map application interface with a topographic map and a layer list on the left.

At the bottom of the page, there are links for [Accessibility](#), [FOIA](#), [Privacy](#), and [Policies and Notices](#). The footer includes the text: 'U.S. Department of the Interior | U.S. Geological Survey', 'URL: <http://viewer.nationalmap.gov/tools/topotemplate/>', 'Page Last Modified: 25-Mar-16', and 'Page Contact Information: *The National Map*'. There is also a USA.gov logo.



viewer.nationalmap.gov/tools/topotemplate/



Frequently Asked Questions

Topo TNM Style Template and Topo Map Vector Data Product FAQs

1. What is the Topo TNM Style Template?

The Topo TNM Style Template is provided by the U.S. Geological Survey (USGS) National Geospatial Technical Operations Center (NGTOC). It has been developed according to the 24,000-scale, 7.5-minute layout and cartographic design of published US Topo maps and is intended for use in any geographic location where data is available for download from The National Map (TNM). The template is provided as an Esri-specific solution (ArcGIS v10.0 map document) for the benefit of USGS earth scientists and other scientific professionals who have a requirement for symbolized and annotated topographic base map layers to support advanced Geographic Information System (GIS) analysis and mapping. Symbolized map layers, links to Web Map Services, labeling rules, grids, standard map layout, and marginalia information are included in the template. The USGS recognizes that this solution only meets the needs of end users dependent upon Esri products. Research continues into alternative formats.

Symbolized layers within the template can be linked to data downloaded from TNM and include layers from TNM vector data themes of transportation, hydrography, elevation contours, geographic names, boundaries, structures, and woodland tint. Web Map Service layers in the template include orthoimagery and shaded relief services produced by the USGS, as well as a National Wetlands Inventory (NWI) Web Map Service produced by the US Fish and Wildlife Service. An ancillary file geodatabase, provided along with the template, contains a Military Grid Reference System (MGRS) feature class and a data table created by the National Geospatial Technical Operations Center (NGTOC) containing 7.5-minute map cell names, UTM zones, and other information for use in tailoring the template to a specific 7.5-minute map.

This template may be used with any TNM data source available for download and can easily be extended with data layers supported by ArcGIS according to end user needs. For best results in symbolization and labeling, it is recommended to be used with the Topo Map Vector Data products, and at scales between 1:18,000- and 1:36,000. These products are available for download from TNM (<http://viewer.nationalmap.gov/basic/>).

Topo TNM Style Template Disclaimer: Initial styling of this Map Template was provided by the U.S. Geological Survey (USGS). The USGS does not endorse any products created from the template.

2. What is the Topo Map Vector Data product?

The Topo Map Vector Data products are one specific type of staged product available from The National Map. They are intended for a variety of GIS and cartographic applications. These products are staged at a 7.5-minute footprint to

correspond with the US Topo map 7.5-minute extent. They contain feature classes from all TNM vector data themes, including Elevation Contours, Government Units (Boundaries), Woodland Tint polygons, Structures, Transportation, Hydrography, TNM Derived Names, and 7.5-minute map cells.

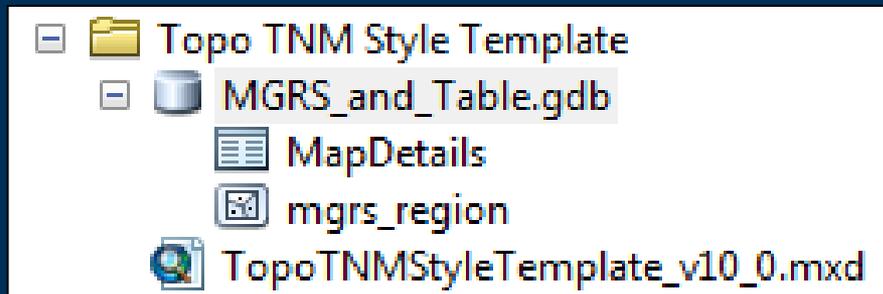
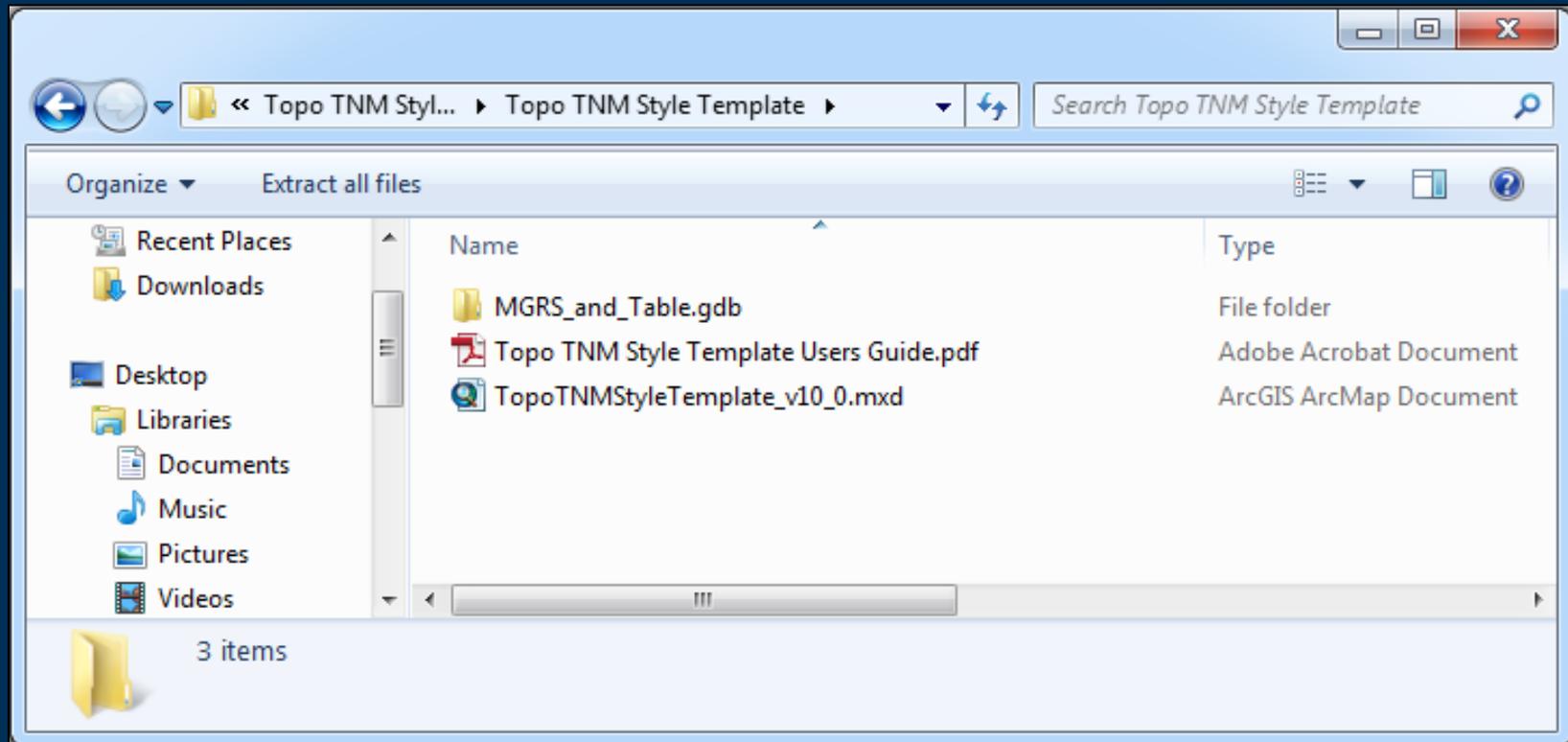
3. What is the TNM Derived Names feature class?

The National Map (TNM) Derived Names dataset is a feature class derived from the Geographic Names Information System (GNIS). The GNIS is the official repository of domestic geographic names data; the official vehicle for geographic names used by all departments of the Federal Government; and the source for applying geographic names to Federal electronic and printed products of all types. See <http://geonames.usgs.gov> for additional information. TNM Derived Names is a filtered and enriched dataset intended specifically to be used in the Topo TNM Style Template for symbolizing and labeling named features. TNM Derived Names data are provided only in conjunction with Topo Map Vector Data products and due to the filtering process does not include all GNIS names available in the standard GNIS dataset. Figures 1 and 2 demonstrate the differences in the labels when using standard GNIS names (Figure 2) compared to TNM Derived Names (Figure 1).



Figure 1: View of Commerce City, Colorado using the Topo TNM Style Template and Topo Map Vector Data that includes TNM Derived Names (road labels are also turned on).

Template Zip File Contents



Users Guide



Topo TNM Style Template Users Guide

Quickstart

Prerequisites

1. A computer with a recent Windows operating system and Esri® ArcGIS® v10.0 (or more recent ArcMap® and ArcCatalog® software).
2. Internet access (to download the template and data).

Download Data and Topo TNM Style Template

1. Go to The National Map (TNM) Download Client at <http://viewer.nationalmap.gov/basic/>.
2. Check the box for Topo Map Vector Data and Topo Stylesheet.
 - a. To search for and download data:
 - i. Pan and zoom to your area of interest in the Map Locator.
 - ii. Click on the Find Products button and a list of Topo Map Vector Data products will be provided.
 - iii. Click on the Download link next to the desired product and a ZIP (.zip) file containing the dataset will be automatically downloaded to your computer.
 - b. To download the template:
 - i. Click on the Thumbnail Description, which will open the web page for the template (<http://viewer.nationalmap.gov/tools/topotemplate/>).
 - ii. Click on the link for the "Zip file" containing the template, tailoring data, and tailoring instructions. A ZIP file will be automatically downloaded to your computer.
 - c. NOTE: Data from the individual TNM vector themes (Map Indices, Boundaries, Contour Hydrography, Structures, Transportation and Woodland Tint) may be used in place of the Topo Map Vector Data products if larger data download footprints are desired.
3. Unzip the ZIP files for the Topo Map Vector Data and the Template, ideally collocated in a folder on your computer.

Tailoring the Template

1. Open the Topo TNM Style Template (TopoTNMStyleTemplate_v10.0.mxd) using ArcMap.
2. Connect Map Layers in the template with appropriate data sources in the Topo Map Vector Data product(s) or other TNM data that was downloaded.
3. Identify the 7.5-minute extent-specific map configuration details using the MapDetails table provided in the ancillary file geodatabase "MGRS_and_Table.gdb" provided with the template.
 - a. Apply the 7.5-minute extent map configuration details to the template for the US National Grid, Grid Zone Designation, and Map Layers data frames.
 - i. Set the Projection Property.
 - ii. Set the Map Rotation Property (Map Layers data frame only).
 - iii. Set the Data Frame Size Properties (Map Layers data frame only).
4. Pan the data frame to the 7.5-minute extent using the Map Indices data that was downloaded and reset the scale to 1:24,000 as needed.
5. Update the Marginalia Text.
 - a. Update the Map Title.
 - b. Update the Contour Interval using the information in the contour data that was downloaded.
 - c. Identify and update Citation Dates and other marginalia text as needed.



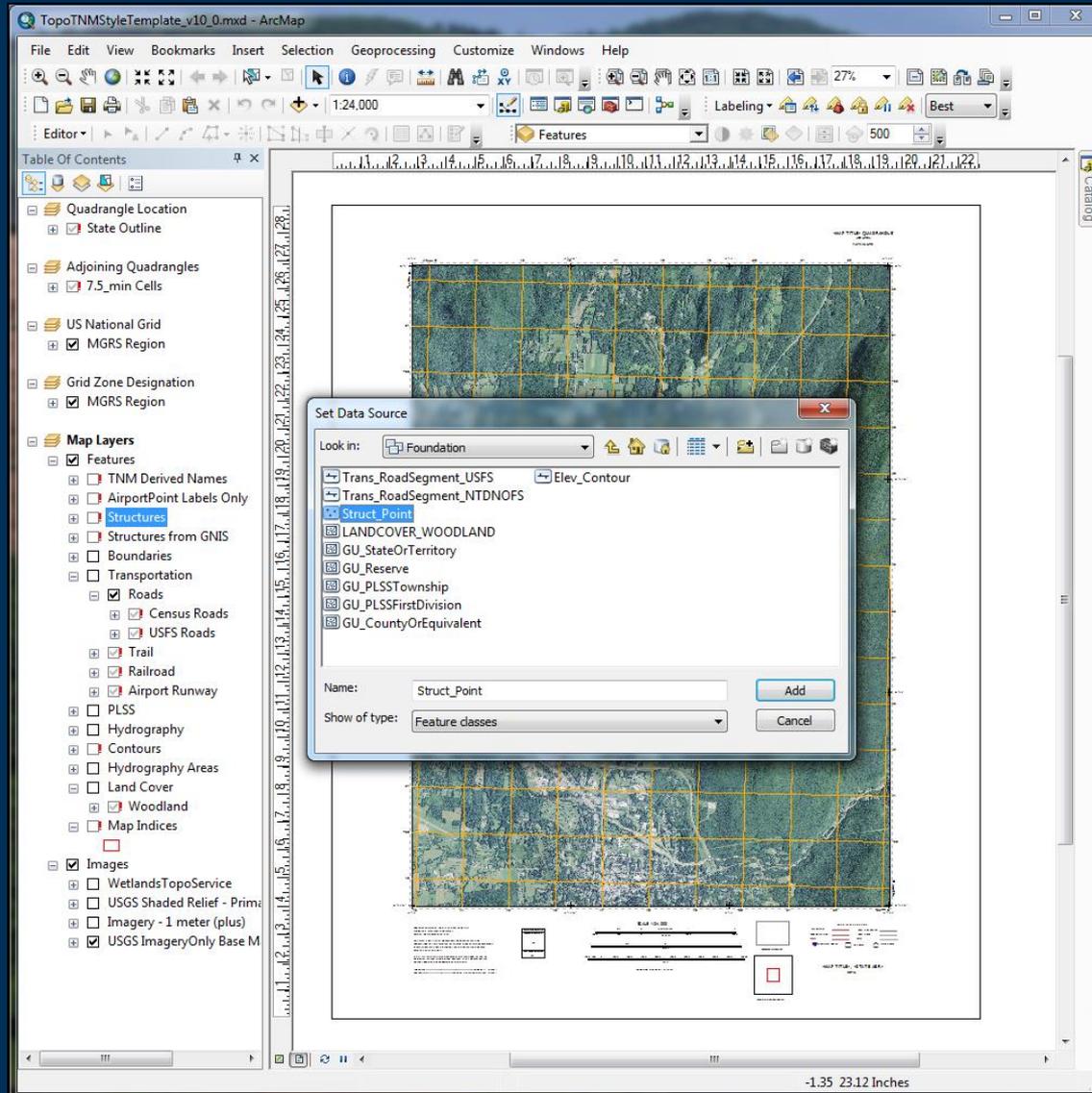
Topo TNM Style Template Users Guide

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Tailoring the Template

Connect Data Layers



Tailoring the Template

Identify 7.5-minute Cell ID

The screenshot shows the ArcMap interface with a map of a 7.5-minute cell grid. The map is titled 'TopoTNMStyleTemplate_v10_0.mxd - ArcMap'. The map shows a grid of cells with labels for each cell. The map is displayed at a scale of 1:24,000. The map is titled '7.5-MINUTE QUADRANGLE OF THE UNITED STATES'.

The Table of Contents on the left shows the following layers:

- Quadrangle Location
- Adjoining Quadrangles
- US National Grid
- Grid Zone Designation
- Map Layers
 - Features
 - TNM Derived Names
 - AirportPoint Labels Only
 - Structures
 - Structures from GNIS
 - Boundaries
 - Transportation
 - PLSS
 - Hydrography
 - Contours
 - Hydrography Areas
 - Land Cover
 - Woodland
 - Map Indices
 - Images

The Table window shows the following data:

OBJECTID*	CELL_ID	CELL_NAME	PRIMARY_STATE	STATE_ALPHA	SEQ_GOVTEXTS	CELL_MAPCODE
1	24920	Langlade	Wisconsin	WI	55067,55083	45088-B6
2	34800	Perote Lake	Wisconsin	WI	55078,55067	45088-A7
3	16299	Fredenberg Lake	Wisconsin	WI	55078,55083	45088-A5
4	71385	Reservoir Pond	Wisconsin	WI	55067,55083	45088-C6
5	48697	White Lake	Wisconsin	WI	55067	45088-B7
6	40713	Shadow Lake	Wisconsin	WI	55083	45088-B5
7	25687	Lily	Wisconsin	WI	55067	45088-C7
8	27764	Markton	Wisconsin	WI	55078,55067,55083	45088-A6
9	45507	Townsend	Wisconsin	WI	55083	45088-C5

The Table window also shows a scroll bar and a status bar indicating '(0 out of 9 Selected)'.

Tailoring the Template

Identify Data Frame Properties

The screenshot shows the ArcMap interface with a map template titled 'TopoTNMStyleTemplate_v10_0.mxd'. The 'Table Of Contents' on the left lists various map layers, including 'Map Layers' and 'Map Indices'. The 'MapDetails' table is visible, showing a single record for 'Langlade' in Wisconsin with a 'CELL_ID' of 24920. The 'Select by Attributes' dialog box is open, allowing the user to select records based on the 'CELL_ID' attribute.

Select by Attributes

Enter a WHERE clause to select records in the table window.

Method: Create a new selection

OBJECTID
CELL_ID
MapName
State
UTMZone

[-] [>] [Like]
[>] [>=] [And]
[<] [<=] [Or]
[%] [()] [Not]
[Is]

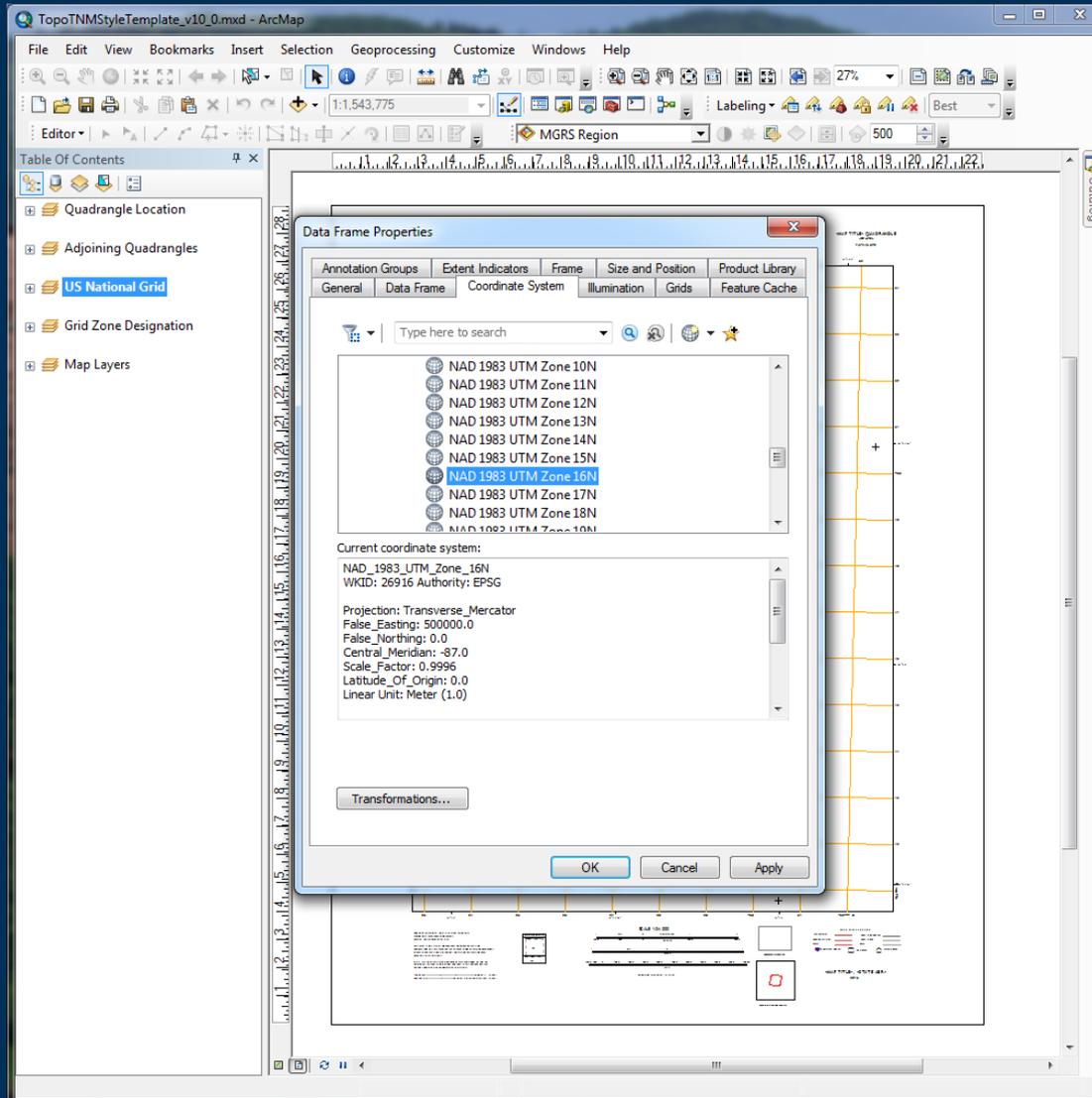
Get Unique Values Go To:

SELECT * FROM MapDetails WHERE:
CELL_ID =24920

Clear Verify Help Load... Save...
Apply Close

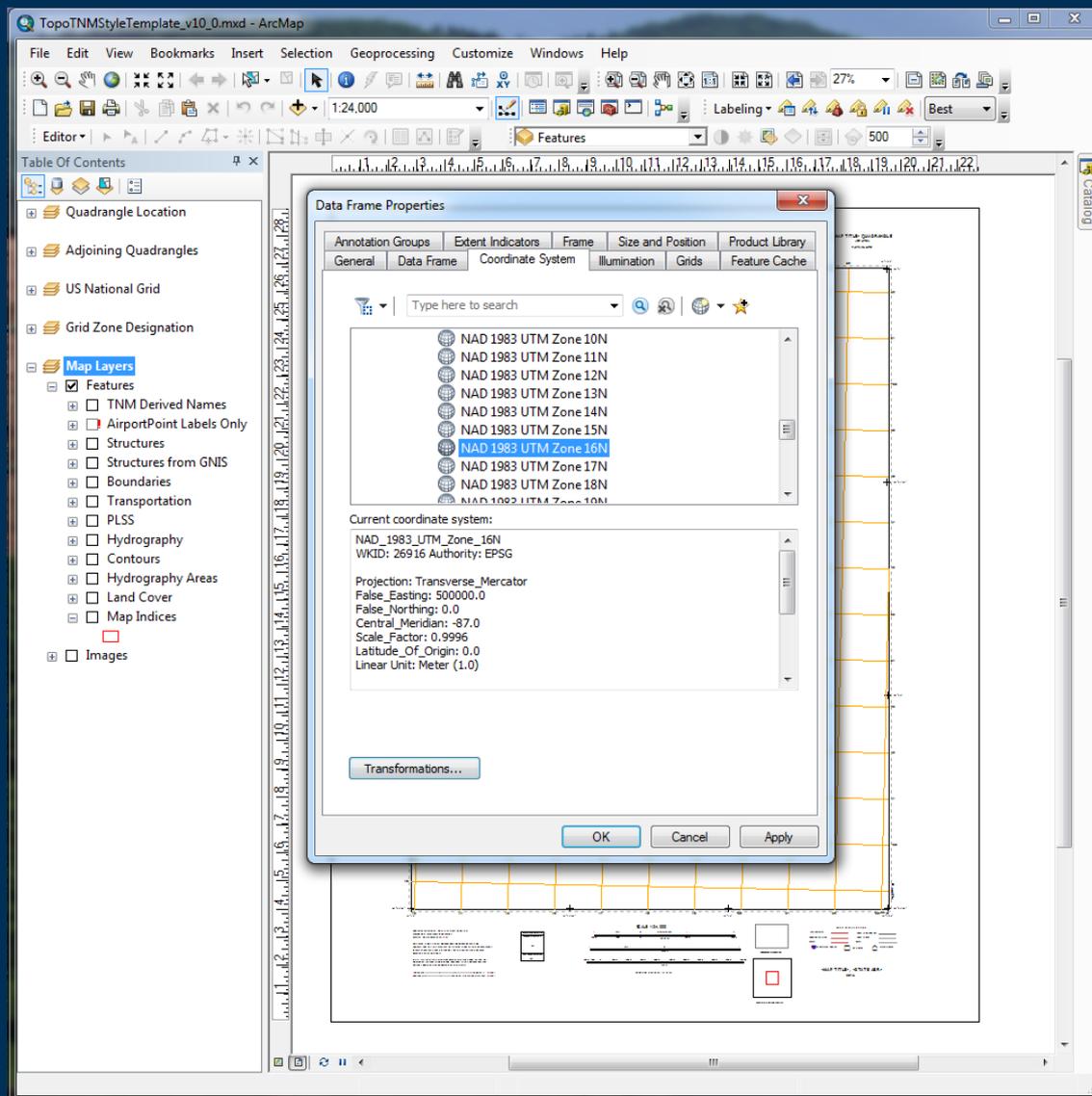
Tailoring the Template

Set the Projection Property for US National Grid and Grid Zone Designation Data Frames



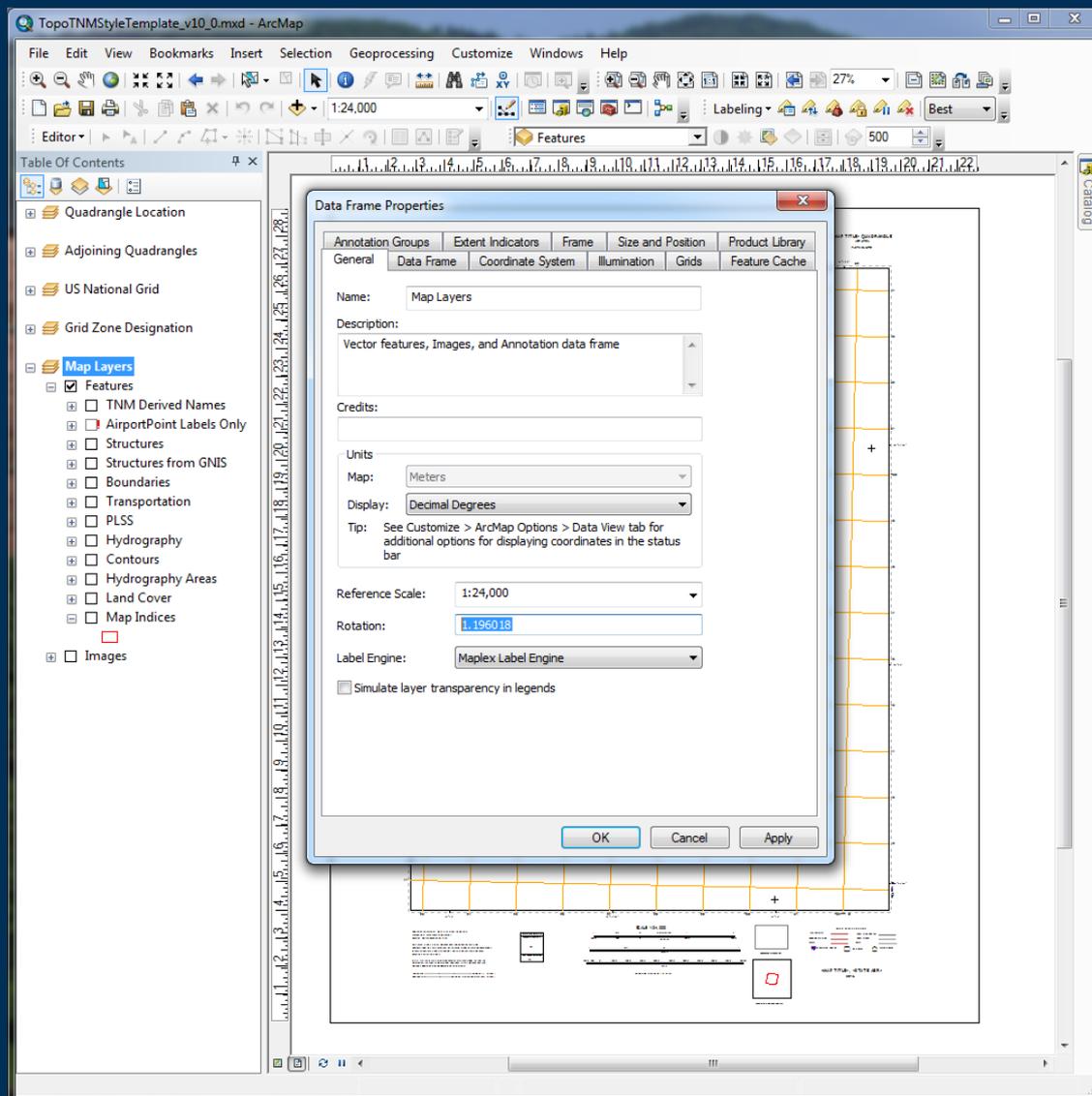
Tailoring the Template

Set the Projection Property for the Map Layers Data Frame



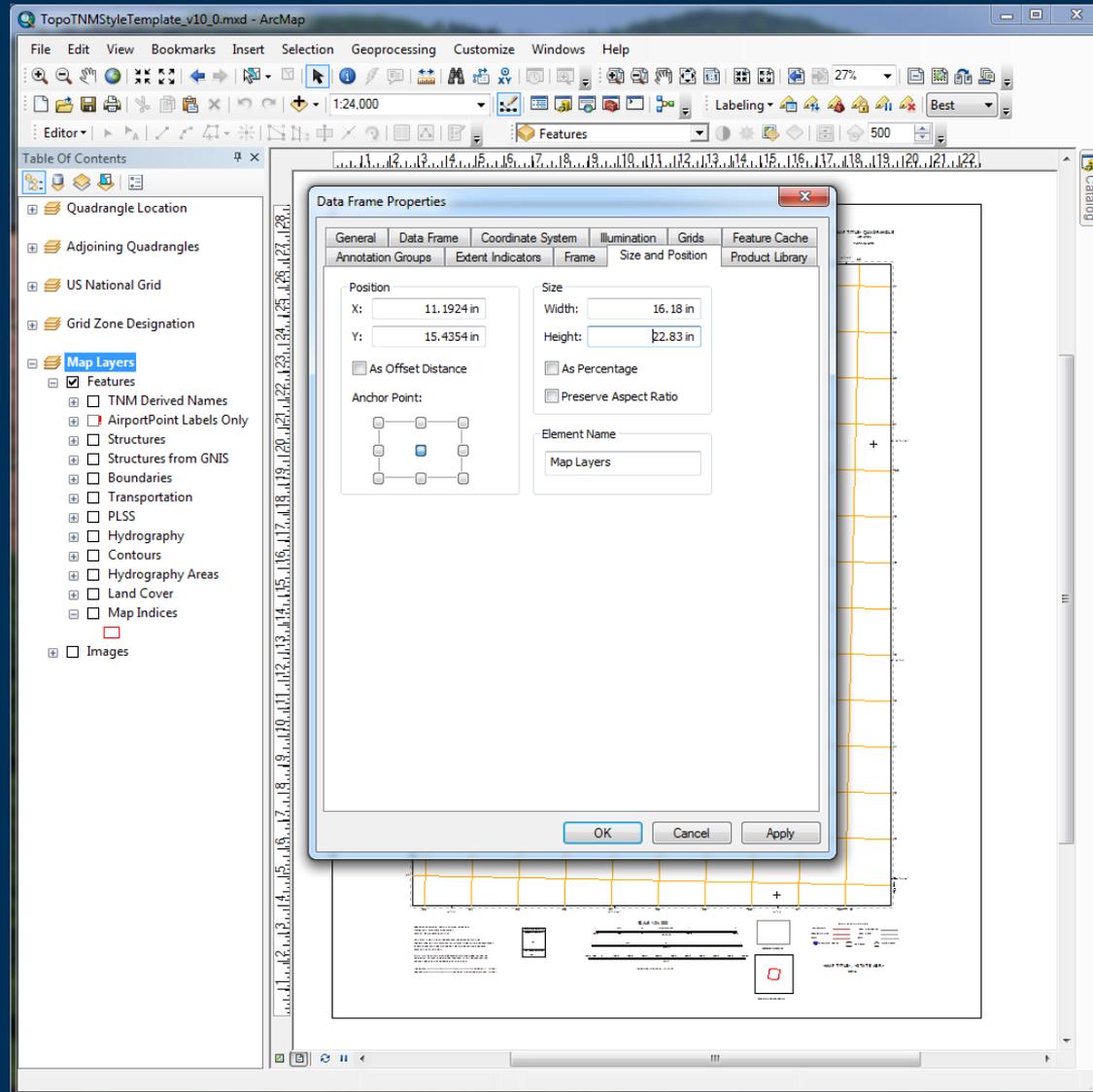
Tailoring the Template

Set the Map Rotation Property for the Map Layers Data Frame



Tailoring the Template

Set the Width and Height Properties for the Map Layers Data Frame



Tailoring the Template

Pan to Cell

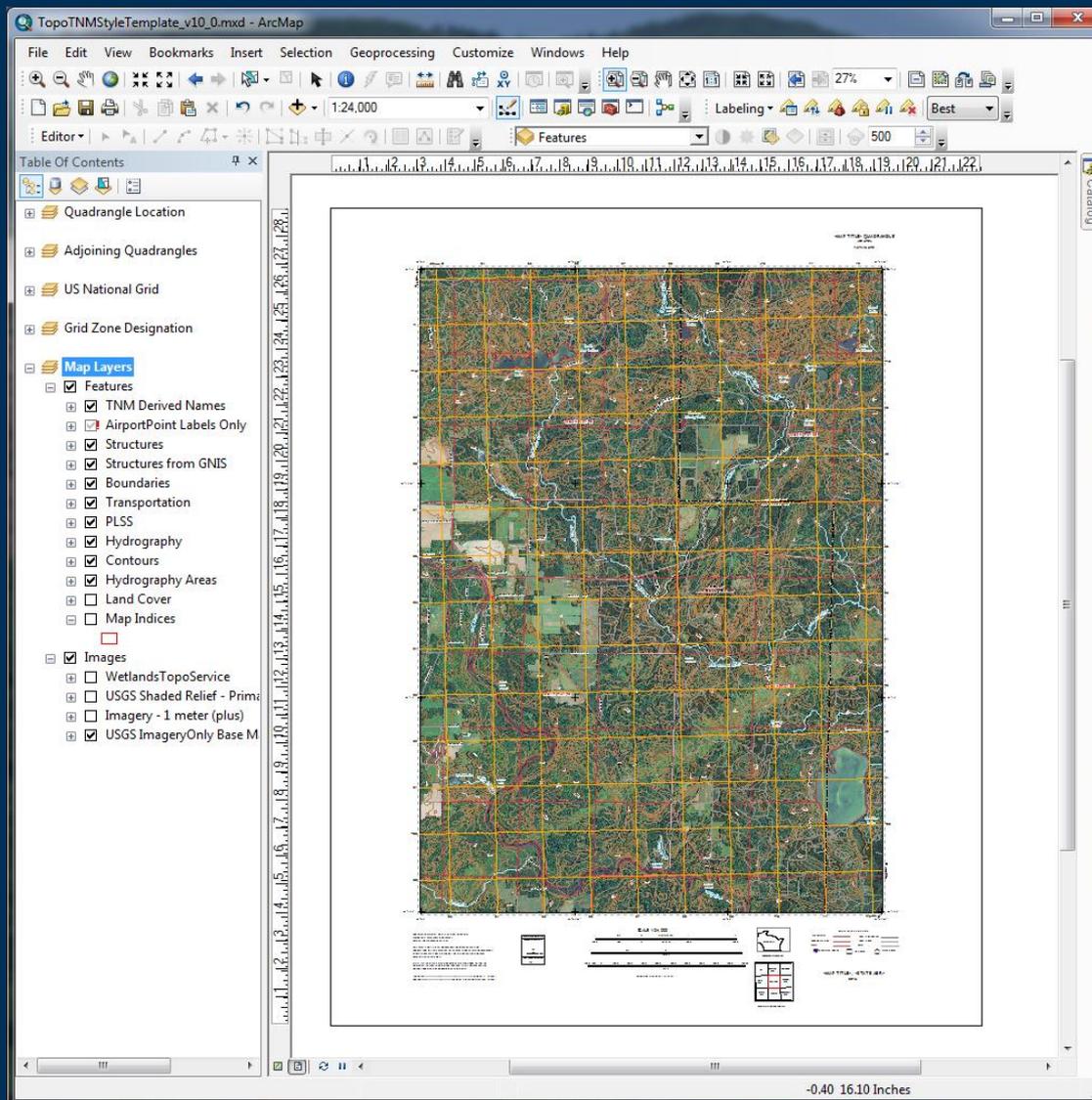
The screenshot shows the ArcMap interface with a map template titled 'TopoTNMStyleTemplate_v10_0.mxd'. The map displays a grid of yellow lines over a topographic map. A 'Table' window is open, showing the 'Map Indices' table with the following data:

OBJECTID*	CELL_ID	CELL_NAME	PRIMARY_STATE	STATE_ALPHA	SEQ_GOVUNIT5	CELL_MAPCODE	Cell_
1	24920	Langlade	Wisconsin	WI	55067,55083	45088-B6	Standa
2	34800	Perote Lake	Wisconsin	WI	55078,55067	45088-A7	Standa
3	16299	Fredenberg Lake	Wisconsin	WI	55078,55083	45088-A5	Standa
4	71385	Reservoir Pond	Wisconsin	WI	55067,55083	45088-C6	Standa
5	48697	White Lake	Wisconsin	WI	55067	45088-B7	Standa
6	40713	Shadow Lake	Wisconsin	WI	55083	45088-B5	Standa
7	25687	Lily	Wisconsin	WI	55067	45088-C7	Standa
8	27764	Markton	Wisconsin	WI	55078,55067,55083	45088-A6	Standa
9	45507	Townsend	Wisconsin	WI	55083	45088-C5	Standa

The 'Table' window also shows navigation controls at the bottom, including a 'Map Indices' section with a selection count of '(0 out of 9 Selected)'.

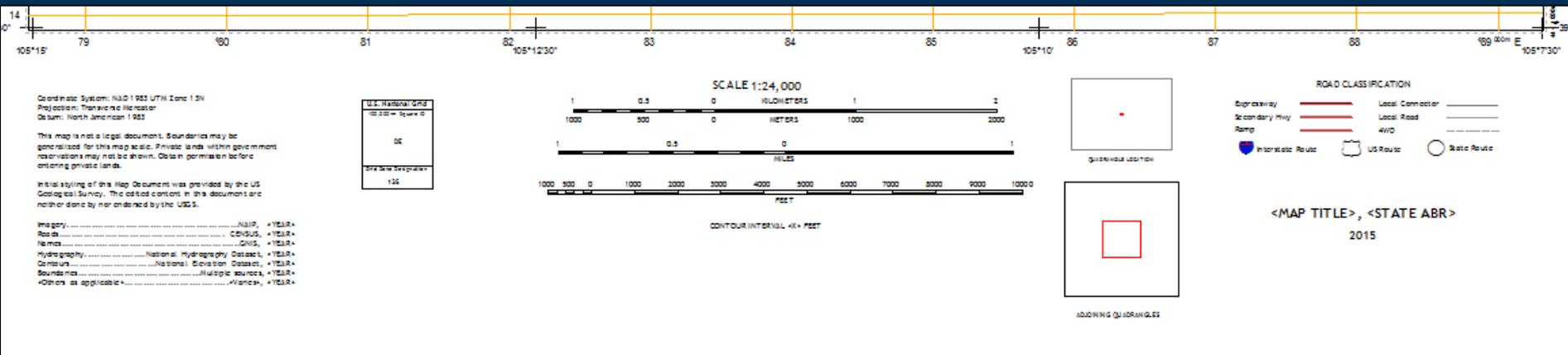
Tailoring the Template

Display Data Layers



Tailoring the Template

Marginalia



Coordinate System: NAD 1983 UTM Zone 16N
 Projection: Transverse Mercator
 Datum: North American 1983

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Initial styling of this Map Document was provided by the US Geological Survey. The edited content in this document are neither done by nor endorsed by the USGS.

<DATASET>.....<SOURCE>, <YEAR>
 Contours.....National Elevation Dataset, <YEAR>

<MAP TITLE> QUADRANGLE
 <STATE>
 7.5-MINUTE

<MAP TITLE>, <STATE ABR>
 2016

Tailoring the Template

Edit Marginalia Text

<MAP TITLE>, <STATE ABR>
2016

The screenshot shows the ArcMap interface with a map template titled "TopoTNMStyleTemplate_v10_0.mxd". The map displays a grid with coordinates and a road classification legend. A dialog box titled "MAP_TITLE_LOWER_RIGHT Properties" is open, showing the text "Langlade, WI" in the "Text" field. The font is set to "Trebuchet MS 12.00". The map also shows a legend for "ROAD CLASSIFICATION" with symbols for Local Connector, Local Road, 4WD, Route, US Route, and State Route. The text "Langlade, WI" is displayed on the map with a dashed blue border, and "2016" is displayed below it.

Future Goals

- **Complete nationwide coverage of Topo Map Vector Data Products**
- **Evaluate a second template for use at 1:100,000-scale**
 - ✓ **Complete cartographic design**
 - ✓ **Continue with VisibilityFilter attribute research for pruning 1:24,000-scale data to 1:100,000-scale**
- **Evaluate both the 1:24,000-scale and 1:100,000-scale templates in conjunction with future Product On Demand (POD) research**

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USGS Topo TNM Style Template

