





What is an OnDemand Topo map?

The 100K Topo map is a general purpose, digital topographic map that covers 60 minutes of longitude by 30 minutes of latitude (an area of approximately 1,500 to 2,200 square miles) and is produced at a scale of 1:100,000. 100K Topo maps are one configuration of OnDemand Topo maps, which are free, customizable, U.S. Geological Survey topographic maps generated upon request using the topoBuilder web application (https://topobuilder.nationalmap.gov). OnDemand Topo maps are intended for conventional map users, not for advanced GIS analysis. The map content is less detailed than the larger-scale OnDemand Topo counterparts yet should still provide a level of detail for many land management and recreational uses. More information about OnDemand Topo maps and their use is available at https://www.usgs.gov/programs/national-geospatial-program/topoBuilder.

All OnDemand Topo maps are available in Portable Document Format (PDF) with geospatial extensions as well as TIFF file format. PDF maps can be viewed and printed with any conforming PDF software. Versions 9.x and later of Adobe® Reader® and Acrobat® software provide access to the geospatial functionality of an OnDemand Topo. Adobe Reader is available for free at https://get.adobe.com/reader.

Feature data is incorporated from national Geographic Information System (GIS) databases under the stewardship of The National Map (TNM). A portion of this large-scale data is generalized to the 1:100,000 scale for improved cartographic interpretation. Most data sources used are in the public domain and may be downloaded for free from The National Map download application (https://apps.nationalmap.gov/downloader).

Base content represented in these maps are derived from The National Map geospatial data themes as follows:

- elevation, such as contours and shaded relief;
- surface hydrography, such as lakes and rivers;
- · geographic names, including natural features and populated places;
- transportation, including roads and recreational trails;
- boundaries, both jurisdictional and administrative;
- manmade structures, such as fire stations; and
- selected land use classifications.

OnDemand Topo Map Content

Each map is made at a scale of 1:100,000 (one inch on the map represents 100,000 inches or 8,333 feet on the ground) with selected features shown and emphasized by symbols and names.

Map features may be represented as points, lines, or polygons depending on their size and extent. They incorporate different colors and patterns to distinguish between feature types and to show each feature's importance.

Point symbols of different shapes and sizes depict small-extent features such as structures, dams, waterfalls, and wells. Linear map symbols (lines) of different colors and textures including straight, curved, solid, or dashed, represent features such as roads, rivers, and contours. Polygon features are usually the first features to be noticed on a topographic map and cover the map in some color or texture, sometimes having an outline to depict the areal extent. Polygon features include vegetation (green) or water (blue). Names and labels are shown in different fonts, sizes, and colors.

A unique feature of a topographic map is the contour. These lines do not exist on the Earth's surface. They join points of equal elevation and therefore show heights of the land and reveal the shape of the land surface. Thicker brown lines are index contours and are labeled with the elevation they represent. Closely spaced contours indicate a steep land slope; widely spaced contours show more level ground. The elevation difference between adjacent contours is the contour interval. A map of a relatively flat area may have a contour interval of 10 feet. In steep areas an interval of 100 feet or more may be used to avoid coalescence or convergence of the contour lines. The contour interval is always noted in the bottom map marginalia.

The cartographic representation of roads is based on a functional classification defined as follows:

- Expressway1: A controlled access, divided arterial highway for through traffic.
- Secondary Highway¹: Hard surface highways including secondary State routes, primary county routes, and other highways that connect principal cities and towns, and link these places with the primary highway system.
- Local Connector¹: Hard surface roads not included in a higher class and improved and loose surface roads passable in all kinds of weather. These roads are adjuncts to the primary and secondary highway system and represent major arteries through populated places.
- Local Road¹: Roads used primarily for local traffic.
- Four Wheel Drive Road¹: Unimproved roads passable only with four wheel drive vehicles.

For more information on U.S. Geological Survey topographic maps, please visit https://www.usgs.gov/TopoMaps.

Emergency Service Features		Road Shields	
Fire Station		Interstate Route	25
Hospital	+	State Route	470
Law Enforcement	=	US Route	830
Public Service Features		Trails	
College/University; Technical College		Standard	
Court House; City/Town Hall		Snow	
Prison	H	Water	
State Capitol	*	Contour Features	
State Supreme Court		Index	
US Capitol	*	Intermediate	
White House; US Supreme Court		Depression Index	
Recreation Features		Depression Intermediate	
Cabin		Hydrography Features	
Campground	A	Gaging Station	•
Headquarters; Ranger Station	L	Rock	*
Trailhead	▼	Spring	9
Visitor Center		Waterfall	M.
Oil & Gas Pipeline Features		Well	•
Alaska Pipeline		Earthen Dam	
Airport Features		Nonearthen Dam	
Heliport	H		
Seaplane	•	Nonearthen Shore	
Airports	+	Pipeline	
Airport Runway		Underground Pipeline	
Railroad Features		Underground Conduit	
Railroad		Flume	
Road Features		Levee	
Closed Road		Rapids/Waterfall	
Expressway		Reef	
Ferry		Tunnel	========
Four Wheel Drive		Intermittent Streams	
Local Connector		Perennial Streams	
Local Road		Canal/Ditch	
Ramp		Area of Complex Channels	
Secondary Highway		Dam	
Tunnel (Connector)		Foreshore	######################################
Tunnel (Highway)		Inundation Area	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Tunnel (Local)		Submerged Stream	

Hydrography Features - continued			
Wash	[0.000000] [0.000000]		
Ice Mass			
Intermittent Lake			
Perennial Lake			
Settling Pond			
Tailings Pond			
Ocean			
Estuary			
Nonearthen Reservoir			
Playa			
Wetland Features	<u> </u>		
Freshwater Emergent Wetland			
Freshwater Forested/Shrub Wetland			
Land Cover			
Woodland			
Shrub/Scrub			
Grassland			
Crop/Pasture			
Barren			
Boundaries			
Wild Scenic River	को को को को को क को को को को को क को को को को को क		
American Indian, Alaska Native, and Native Hawaiian Area			
U.S. Forest Service National Park Service U.S. Fish and Wildlife Service			
Department of Defense			
National Cemetery			
National Monument	c c		
Wilderness Area			
Bureau of Land Management			
International Boundary Line			
State Or Territory			
County Or Equivalent			
PLSS			
Land Grant			
Section	1 - 36		
Section Protracted	1 - 36		

Township/Range

Township/Range Protracted



Shaded Relief

Shaded Relief

