topoBuilder

Custom USGS Topographic Maps On Demand

National Map Liaison to VA, NC, SC, GA, & FL USGS National Geospatial Program

September 2025
Joint Local Government and Federal Interagency Committee Meeting

Jo Baker





topoBuilder is...



on demand



where you want



multiscale

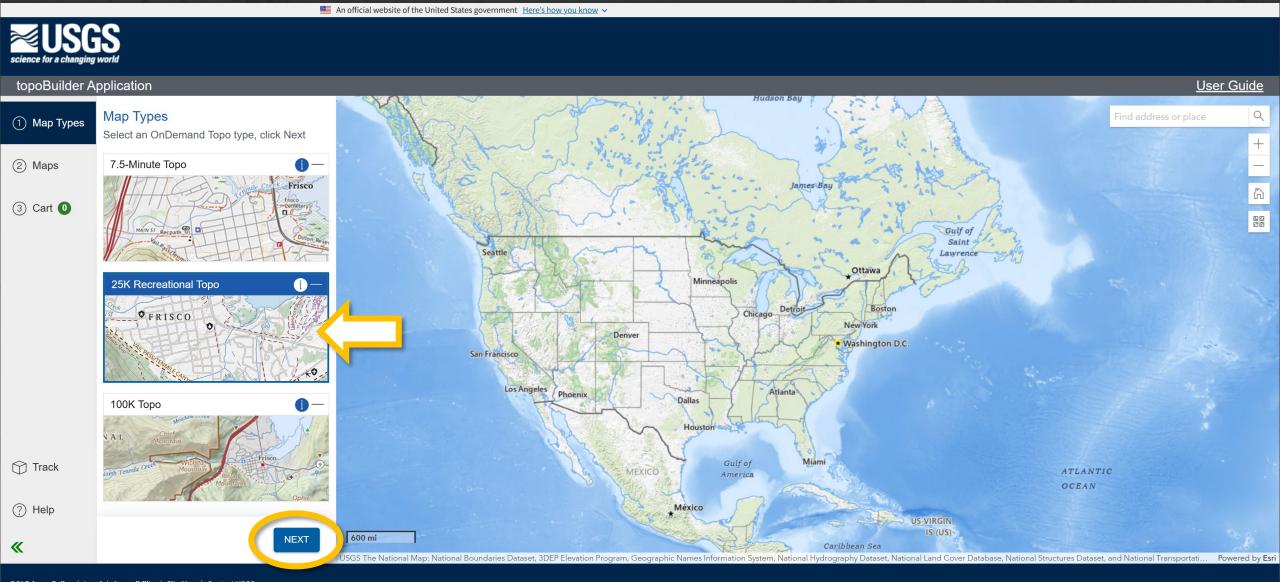


best available data





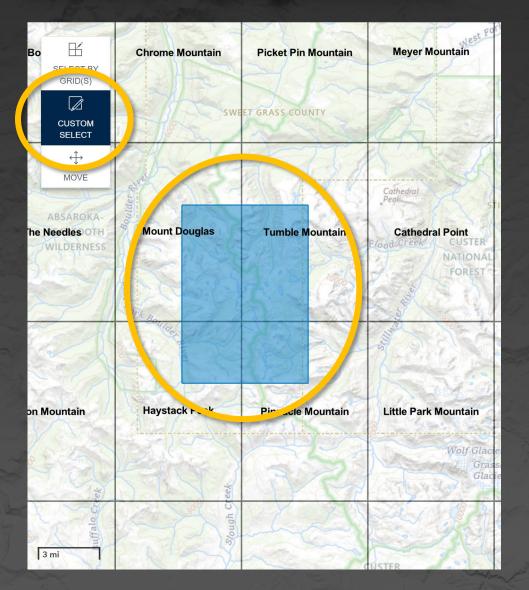
Choose map type

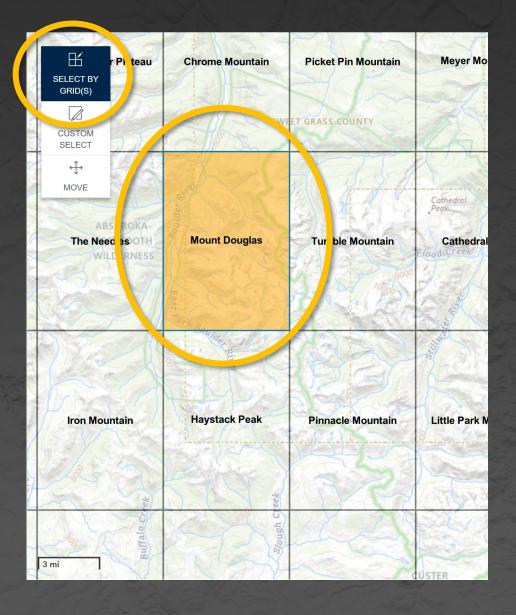


Zoom to area of interest

An official website of the United States government Here's how you know > User Guide topoBuilder Application Maps Find address or place (1) Map Types Select area of interest on the map SELECT BY GRID(S) Zoom in to display Grid CUSTOM SELECT ③ Cart ① FRISCO Ottawa Select a map to begin Chicago Denver * Washington D.C. ALGERIA Gulf of ATLANTIC America OCEAN ? Help MAURITANIA México US VIRGIN 600 mi USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportati...

Choose map extent

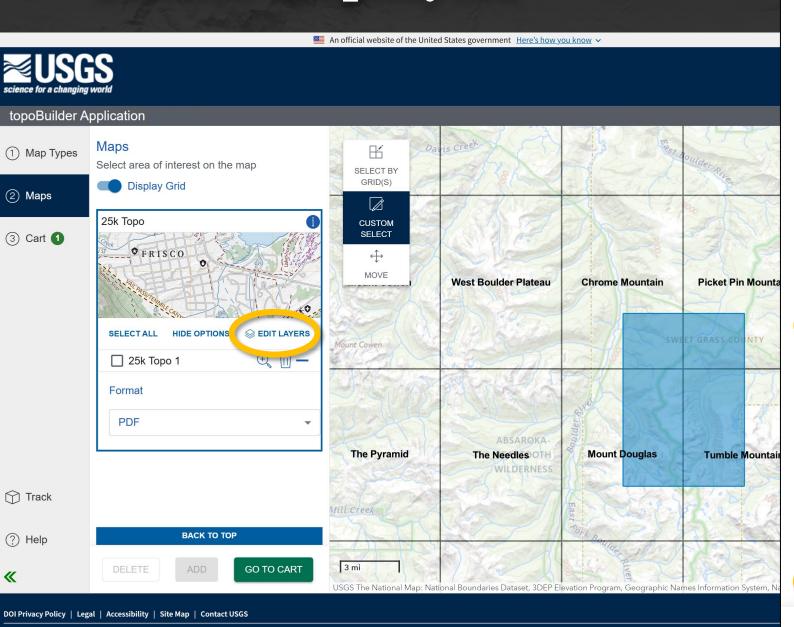


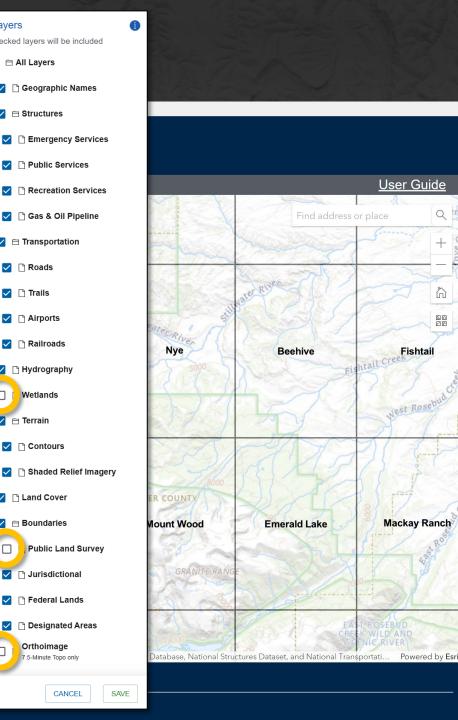






Choose map layers





← Layers

Only checked layers will be included All Layers

Geographic Names

Emergency Services

Recreation Services

Gas & Oil Pipeline

Transportation

Roads

✓ ☐ Trails

Airports Railroads

Hydrography Wetlands

Contours

Land Cover

Boundaries

Jurisdictional Federal Lands

Designated Areas

CANCEL

Orthoimage

Public Land Survey

🔽 🗎 Terrain

Public Services

Structures

Choose export options

3 mi

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topoBuilder Application User Guide Maps (1) Map Types Select area of interest on the map SELECT BY GRID(S) Display Grid (2) Maps 25k Topo **CUSTOM** Nye SELECT **Chrome Mountain Meyer Mountain Picket Pin Mountain Beehive** Fishtail ③ Cart ① Roscoe INVV FRISCO MOVE ⊕ <u>iii</u> — ☐ 25k Topo 1 ILLWATER COUNTY User Defined Content The Needles OTH **Mount Douglas Tumble Mountain Mount Wood** Mackay Ranch **Cathedral Point Emerald Lake** Roscoe **Format** NATIONA PDF

MOUNTAINAlpine

PDF

ACK TO TOP

Add map(s) to cart

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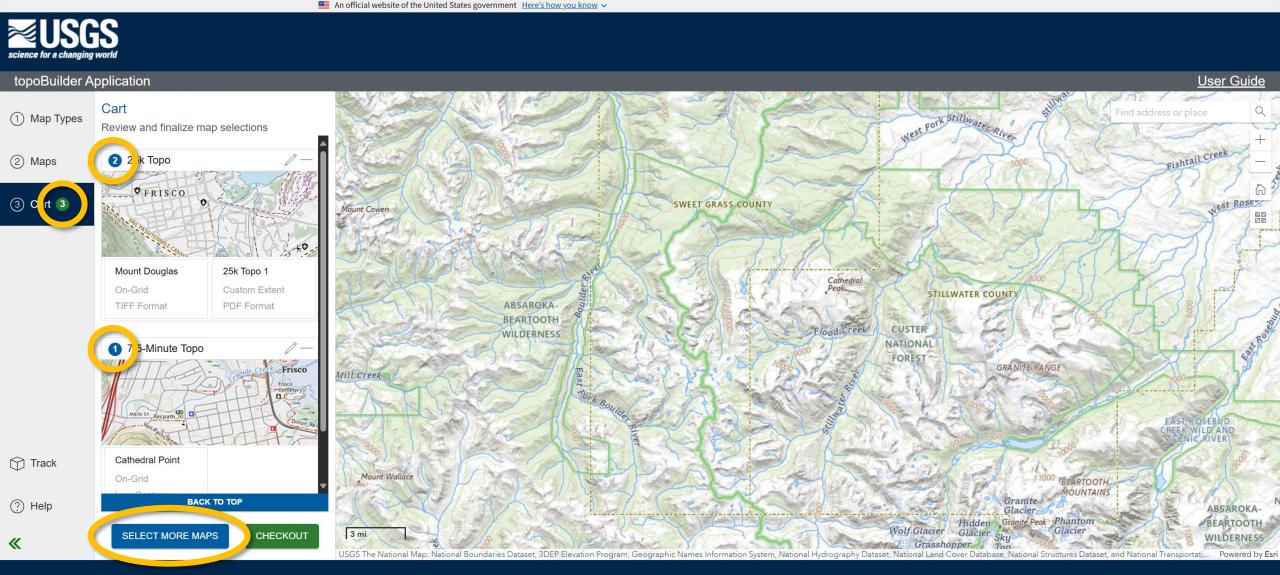
Pinnacle Mountain

Granite Peak

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportati..

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Review selections in cart

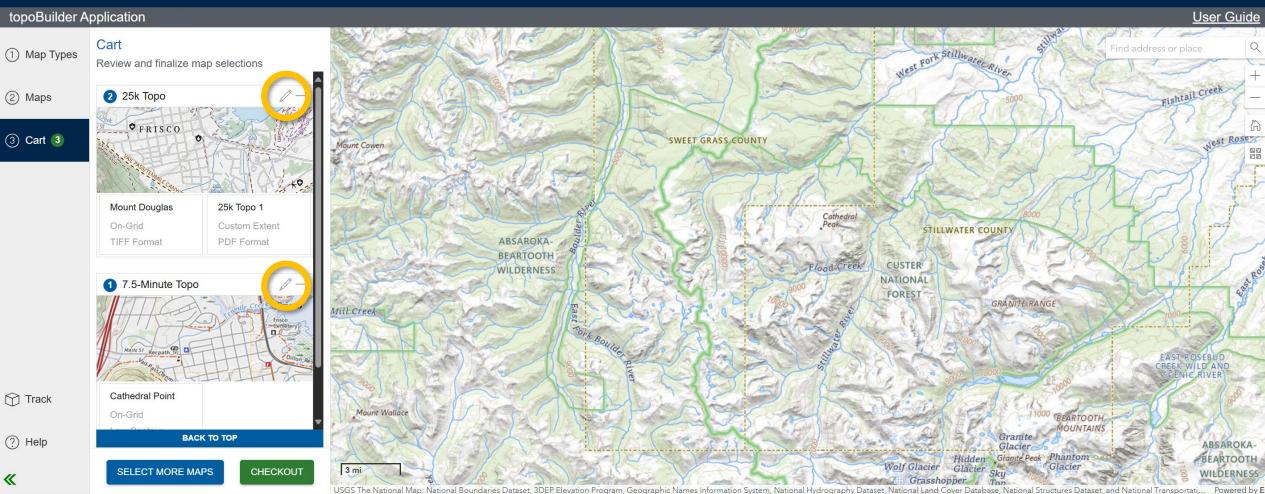


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Edit map

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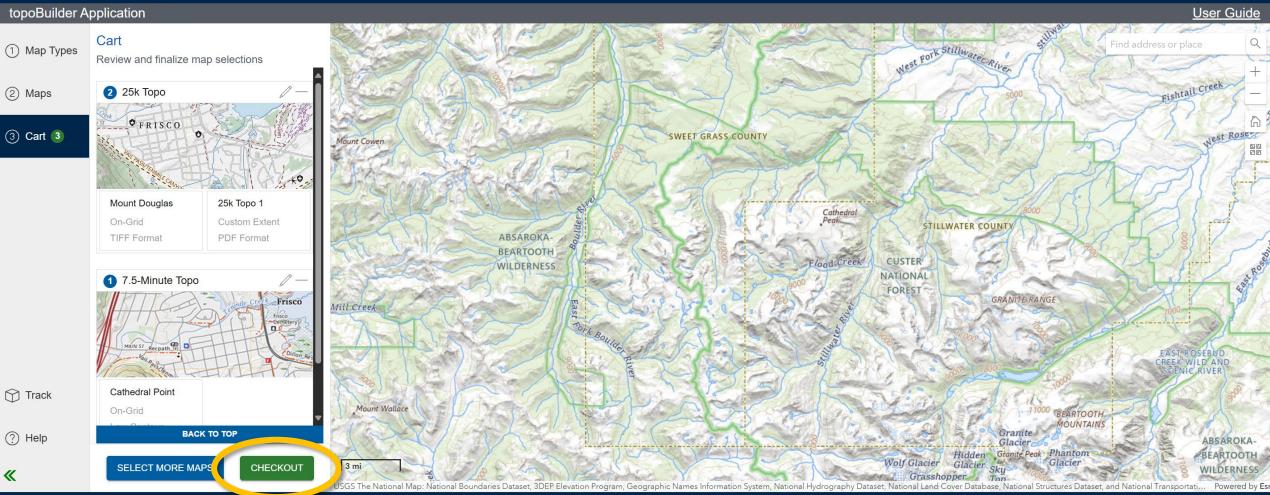




Checkout (1)

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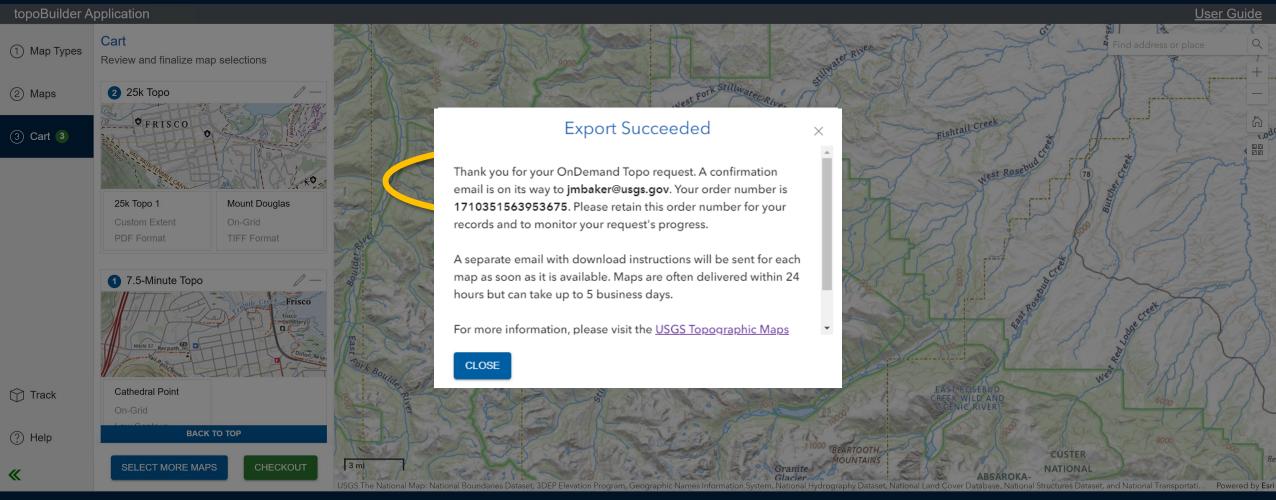


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Checkout (2)

An official website of the United States government Here's how you know





Confirmation and delivery emails





Thank you for your OnDemand Topo request. Your order is being processed.

A separate email with download instructions will be sent for each map as soon as it is available. Maps are often delivered within 24 hours but can take up to 5 business days.

Order confirmation number: 1743000906958868

Order Summary:



Mount Douglas, Montana

Selection Type: On-Grid Extent

Product Type: 25K Topo

Product Format: TIFF

Layers Removed: Contours, Public Land Survey



25k Topo 1, Montana

Selection Type: Custom Extent

Product Type: 25K Topo

Product Format: PDF

Layers Removed: Contours, Public Land Survey



Cathedral Point, Montana

Selection Type: On-Grid Extent

Product Type: 7.5-Minute Topo

Product Format: PDF

Contour Smoothness: High

Layers Removed: None

Need anything? We're here to help!

topoBuilder

Learn More

Help Desk











Your OnDemand Topo from topoBuilder is ready for download!

This map will remain available until 60 days after date of delivery. For a detailed overview of OnDemand Topo maps, please see the user guide.

Order number: 1743000906958868

Delivery Summary:

Cathedral Point, Montana

Selection Type: On-Grid Extent
Product Type: 7.5-Minute Topo

Product Format: PDF

Contour Smoothness: High

Layers Removed: None

Download Map

Click here to download your map. This ink will expire on May 25, 2025

Need anything? We're here to help!

topoBuilder Learn More Help Desk











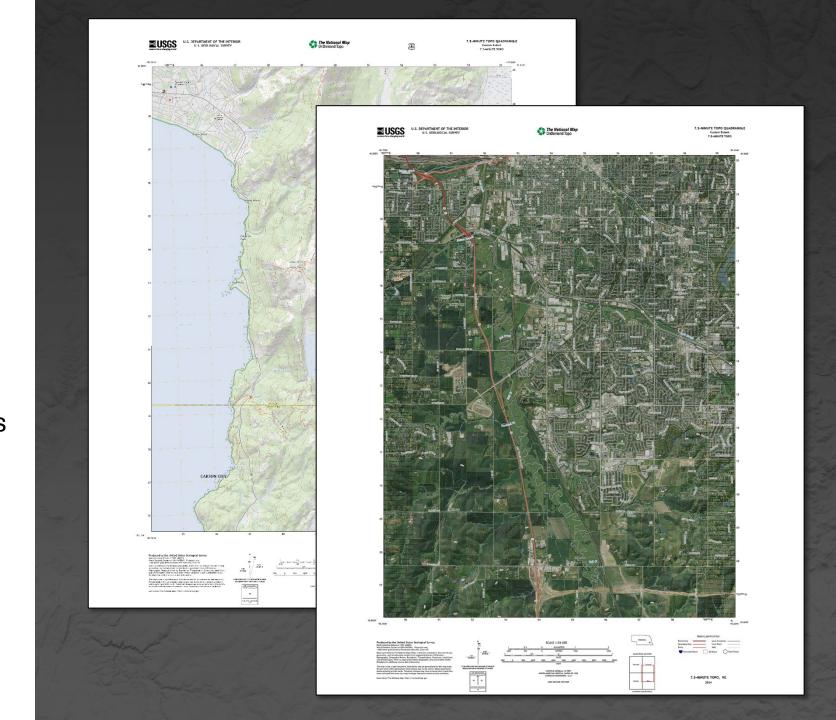
OnDemand Topo Map Types





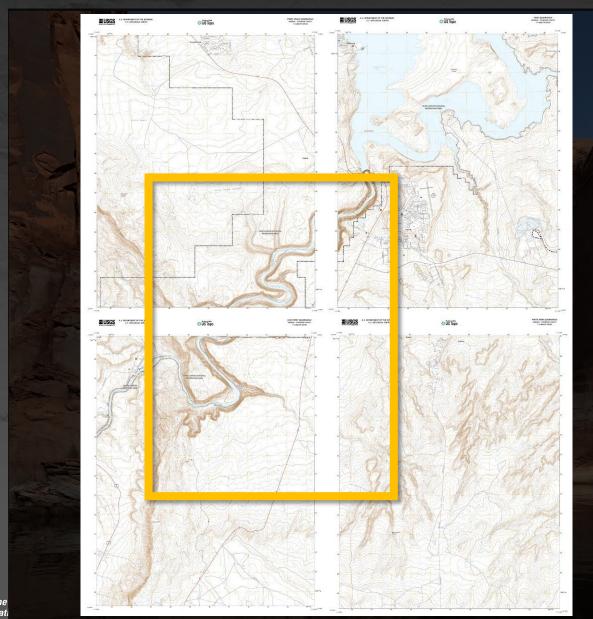
7.5-Minute Topo

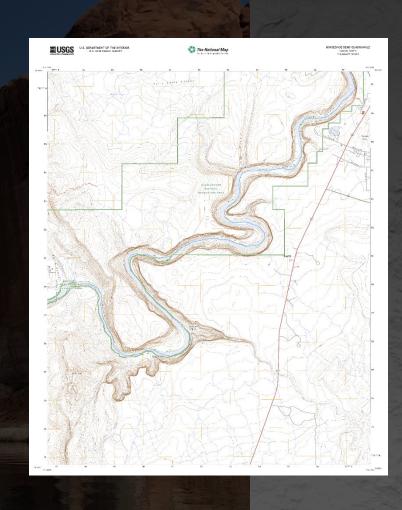
- 1:24,000 in CONUS & Hawai'i
- 1:25,000 in Alaska
- 1:20,000 in Puerto Rico, U.S.
 Virgin Islands, American
 Samoa, Guam,
 Commonwealth of
 the Northern Mariana Islands
- Includes imagery and contour smoothing customization





Custom Map Extent



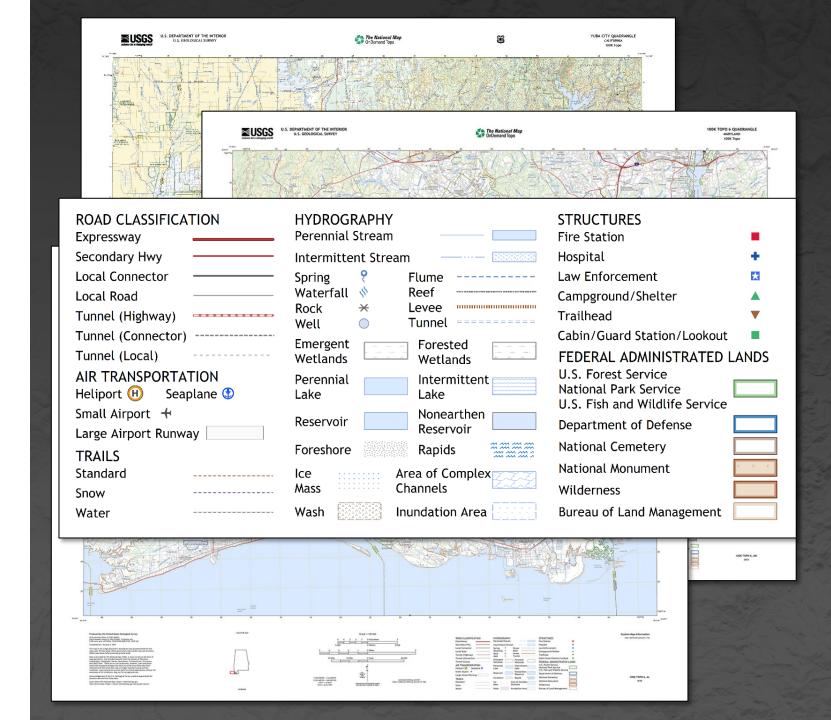






100K Topo

- **1**:100,000
- Covers all states and territories
- Planning, land management, recreation







100K Topo (2)

Five land cover classes

Woodland

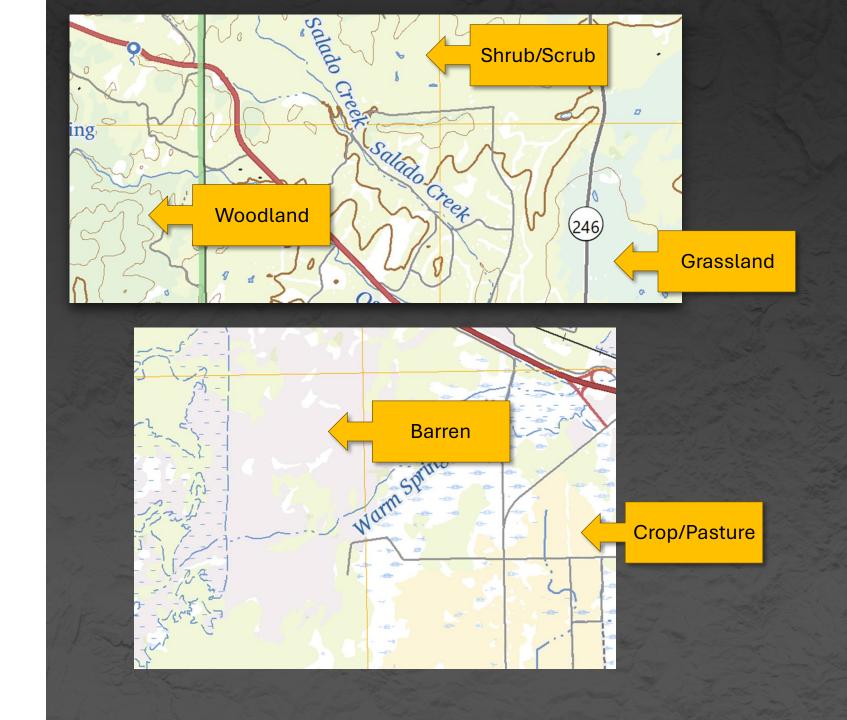
Shrub/Scrub

Grassland

Crop/Pasture

Barren

No imagery





25K Recreational Topo

New trail symbols



New boundary symbols







Updated contour intervals





25K Recreational Topo (2)

- 7.5-minute
- **1**:25,000
- Recreation & outdoors
- Excluded data

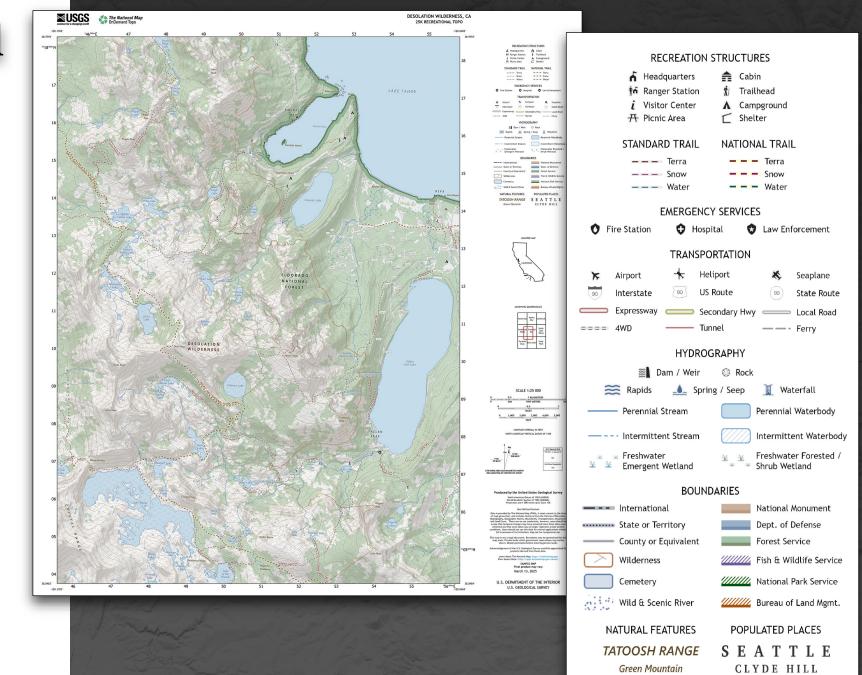
PLSS

Rails

Some structures

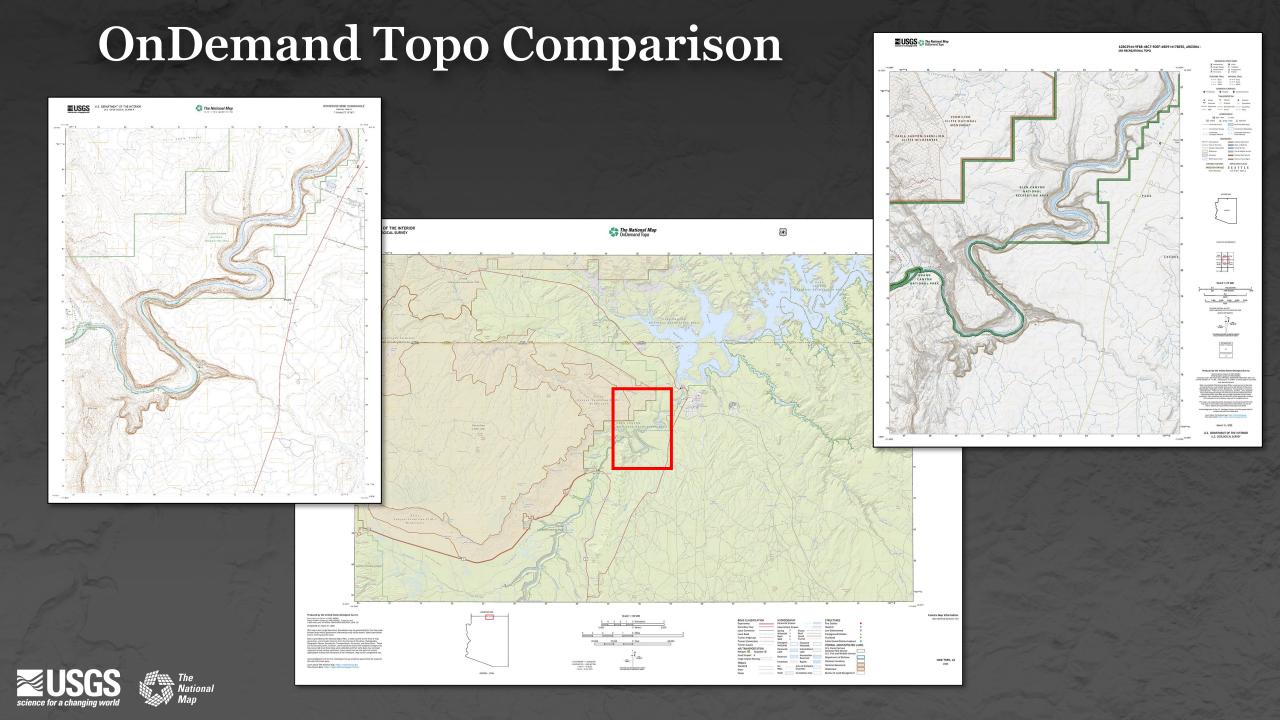
Oil & gas pipeline

Imagery

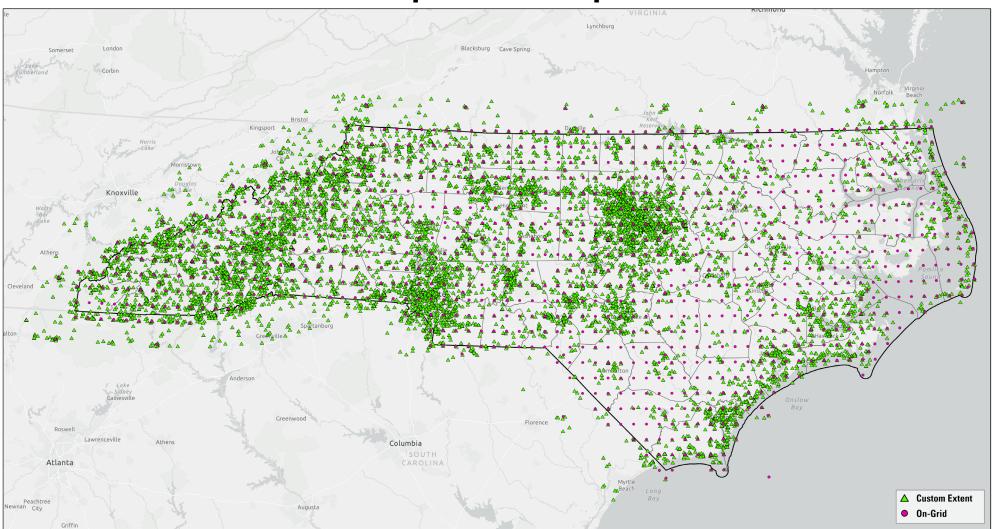


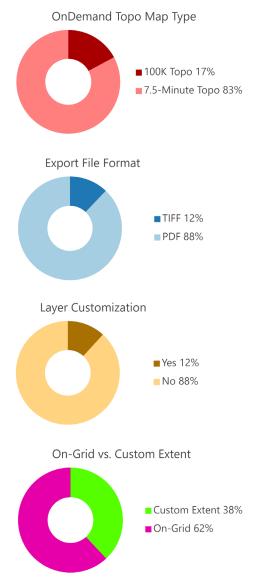






26,194 North Carolina topoBuilder Requests 02/2022 - 01/2025









Resources – USGS.gov/topoBuilder

Create an OnDemand Topo



Build a USGS topographic map with choice of format, area of interest, scale, and National Map content.

Launch topoBuilder

More USGS Topo Maps



US Topo maps, OnDemand Topo maps, and the Historical Topographic Map Collection (HTMC) are produced by the National Geospatial Program.

All Topo Map Access Options

topoBuilder Resources

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Mapping, Remote Sensing, & Geospatial Data FAQs

Learn About The National Map

Topographic Maps Home

JUMP TO: ONDEMAND TOPO MAP TYPES | ADDITIONAL RESOURCES & RELATED CONTENT

Introduction to topoBuilder & OnDemand Topos

topoBuilder is a public web application released by the National Geospatial Program that enables users to request customized USGS-style topographic maps, known as OnDemand Topos, that utilize the best available data from The National Map.

- Exclusive to topoBuilder is the ability to <u>center maps</u>
 <u>anywhere</u>* users choose. OnDemand Topo maps do not need to align with
 the traditional USGS map grids so one map can cover an area that may
 have previously required up to four maps.
- . Users also have their choice of file format (georeferenced PDF or TIFF).
- The Edit Layers capability lets users <u>select which layers of The National Map</u> they would like to be included in their custom map product.
- Users then simply enter a valid email address and a direct link to download their unique map will be <u>delivered free of charge</u>. Maps are often delivered within 24 hours but may take up to 5 business days.



Sources/Usage: Public Domain.

One Custom Extent OnDemand Topo (right) may cover an area that previously required up to four topo maps (left).

OnDemand Topo contours and shaded relief are generated on the fly from the latest USGS elevation data, including high-quality lidar and IfSAR data acquired through the 3D Elevation Program.

Science for a changing world



OnDemand Topo Map Types

There are currently three OnDernand Topo Map Types available: The 7.5-Minute Topo, the 25K Recreational Topo, and the 100K Topo.

7.5-Minute Topo



Sources/Usage: Public Domain. <u>View Media Details</u>
Custom Extent 7.5-Minute Topo map created using the topoBuilder application in January 2023.

7.5-Minute Topos closely resemble historical 7.5-minute USGS map products as well as US Topo maps.

- This large-scale map type provides a high level of detail over approximately 50 to 70 square miles per map and can be used for recreation and navigation (orienteering and geocaching), city planning, search and rescue, science studies such as geologic and geographic field work, and much more.
- In order to balance areal extent shown and printed product page size at varying locations on the Earth's surface, three scales are found within this map type:
- o 1:24,000 for the contiguous United States and Hawaii
- o 1:25,000 for Alaska
- 1:20,000 for Puerto Rico, the U.S. Virgin Islands, American Samoa,
 Guam, and the Commonwealth of the Northern Mariana Islands
- An additional customization is available for 7.5-Minute Topos: Contour smoothing. Users may choose the level of contour detail best suited for their unique map needs.

25K Recreational Topo

25K Recreational Topos are 1:25,000-scale USGS topographic maps highlighting recreational content available from The National Map.

- Similar to the 7.5-Minute Topo, this large-scale map provides a high level of detail over approximately 50 to 70 square miles per map.
- New layout with expanded legend and nationally-consistent scale improve ease of use and provide a more uniform experience from map to map.
- Symbology and labeling has been highly tailored so users can more easily distinguish recreational features, such as federal land boundaries, trailheads krails, ranger stations, picnic areas, emergency locations and more, from non-recreational features.
- Enhanced contour interval algorithm for more precise terrain depiction.
- Unique to the 25K Recreational Topo is the ability to show only National Trails or only Standard Trails using the Edit Layers capability.



Sources/Usage: Public Domain. View Media Details Custom Extent 25K Recreational Topo map created using the topoBuilder application in June 2025.

100K Topo



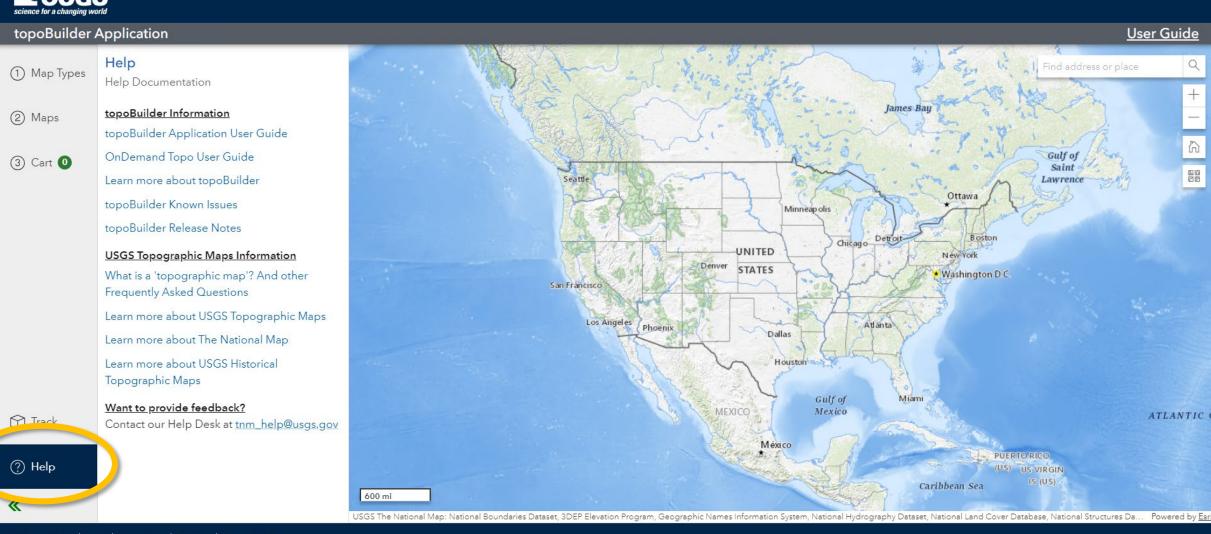
Sources/Usage: Public Domain. <u>View Media Details</u>
Custom Extent 100K Topo map created using the topoBuilder application in March 2025.

100K Topos are 1:100,000-scale maps inspired by the 30by 60-minute map series published by the USGS through the end of the 20th century.

- These medium-scale maps are designed to cover an area of approximately 1,500 to 2,200 square miles and are ideal for any application where information across a large area is needed.
- While 100K Topos contains less detail than the largerscale OnDemand Topos, they provide enough information for many traditional and recreational uses as well as some science and planning applications.
- 100K Topo maps also feature additional land cover categories, such as grassland and crop/pasture, alongside the customary woodland tint.
- In order to support a consistent snapshot of 1:100,000-scale National Map data, content on 100K Topos may be less current than data appearing on a contemporary larger-scale OnDemand Topo map.

Resources – topoBuilder Help Tab





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Thank you!

Jo Baker

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For feedback, help, or support:

tnm_help@usgs.gov



topobuilder.nationalmap.gov

