

topoBuilder & OnDemand Topo

How to make your own topo maps

September 18, 2025

eguidero@usgs.gov



topoBuilder

topobuilder.nationalmap.gov



maps on
demand



anywhere
in the U.S.



7.5' Topo,
25K Rec,
100K Topo

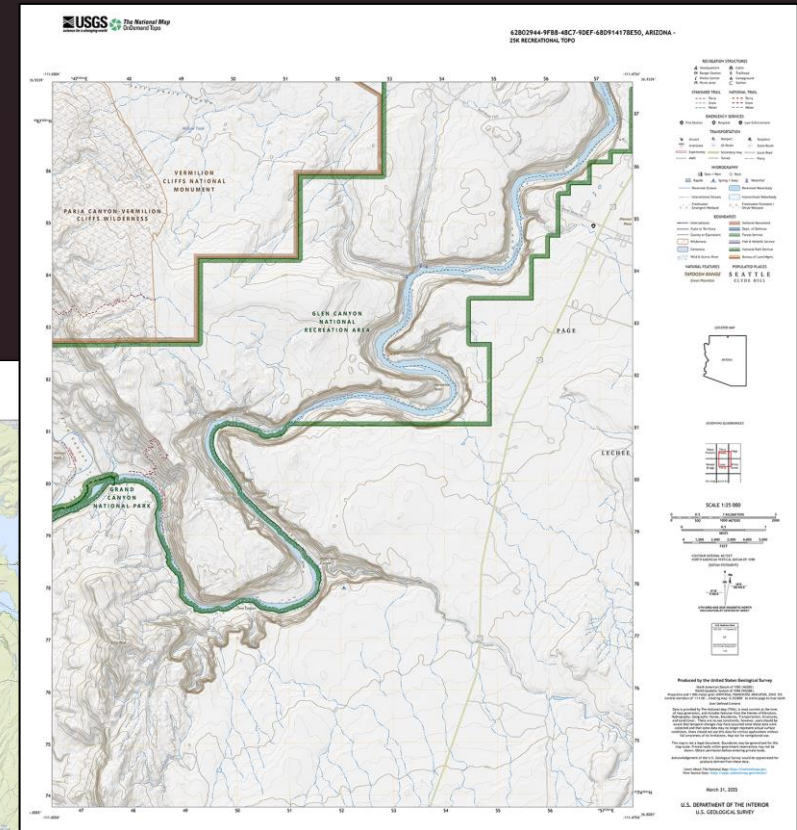
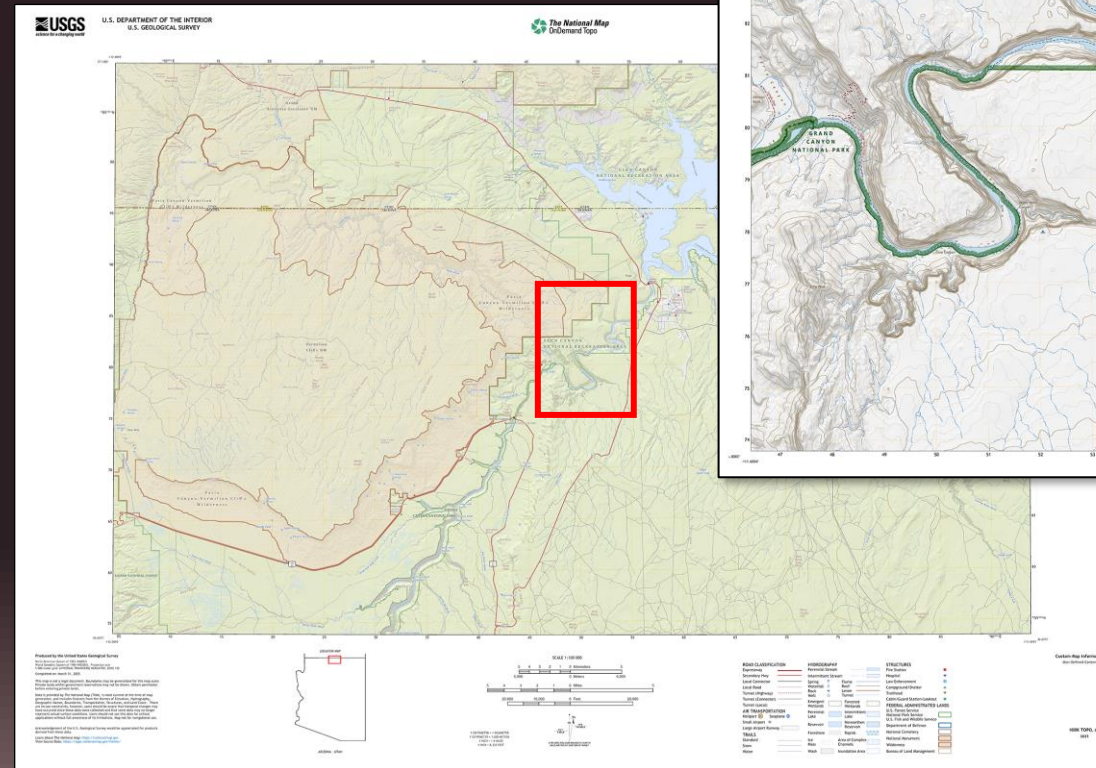
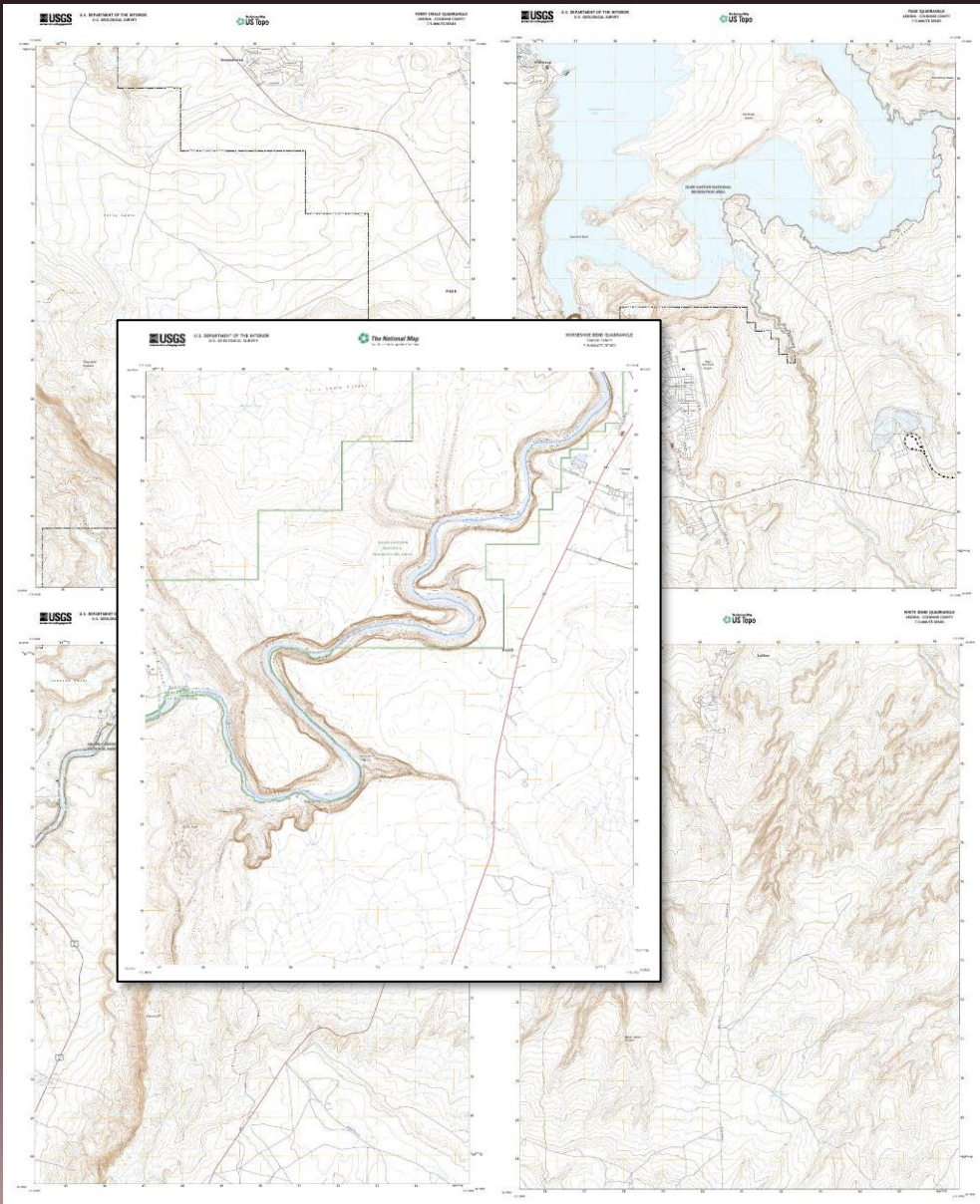


best
available
TNM data

US Topo & OnDemand Topo



US Topo & OnDemand Topo



Choose map type

 An official website of the United States government [Here's how you know](#) 



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[User Guide](#)

① Map Types

② Maps

③ Cart 0

 Track

 Help



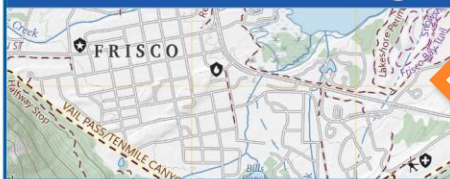
Map Types

Select an OnDemand Topo type, click Next

7.5-Minute Topo



25K Recreational Topo



100K Topo



NEXT



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... Powered by Esri

Zoom to area of interest

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① Map Types

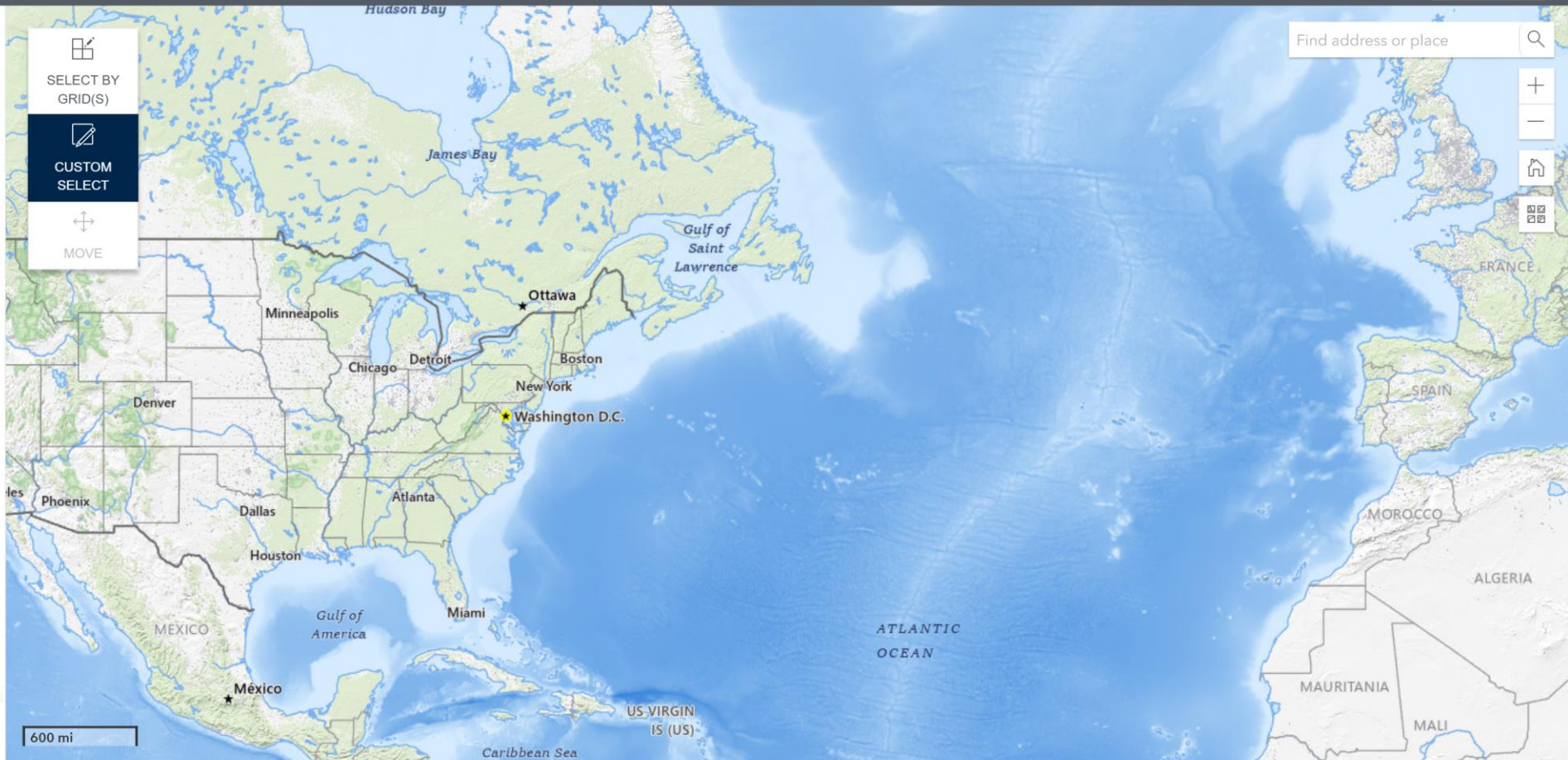
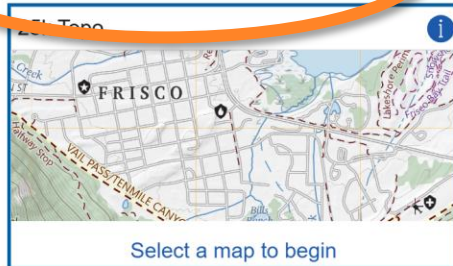
Mans

Select area of interest on the map

② Map

☐ Zoom in to display Grid

③ Cart 0



Track

Help



DELETE

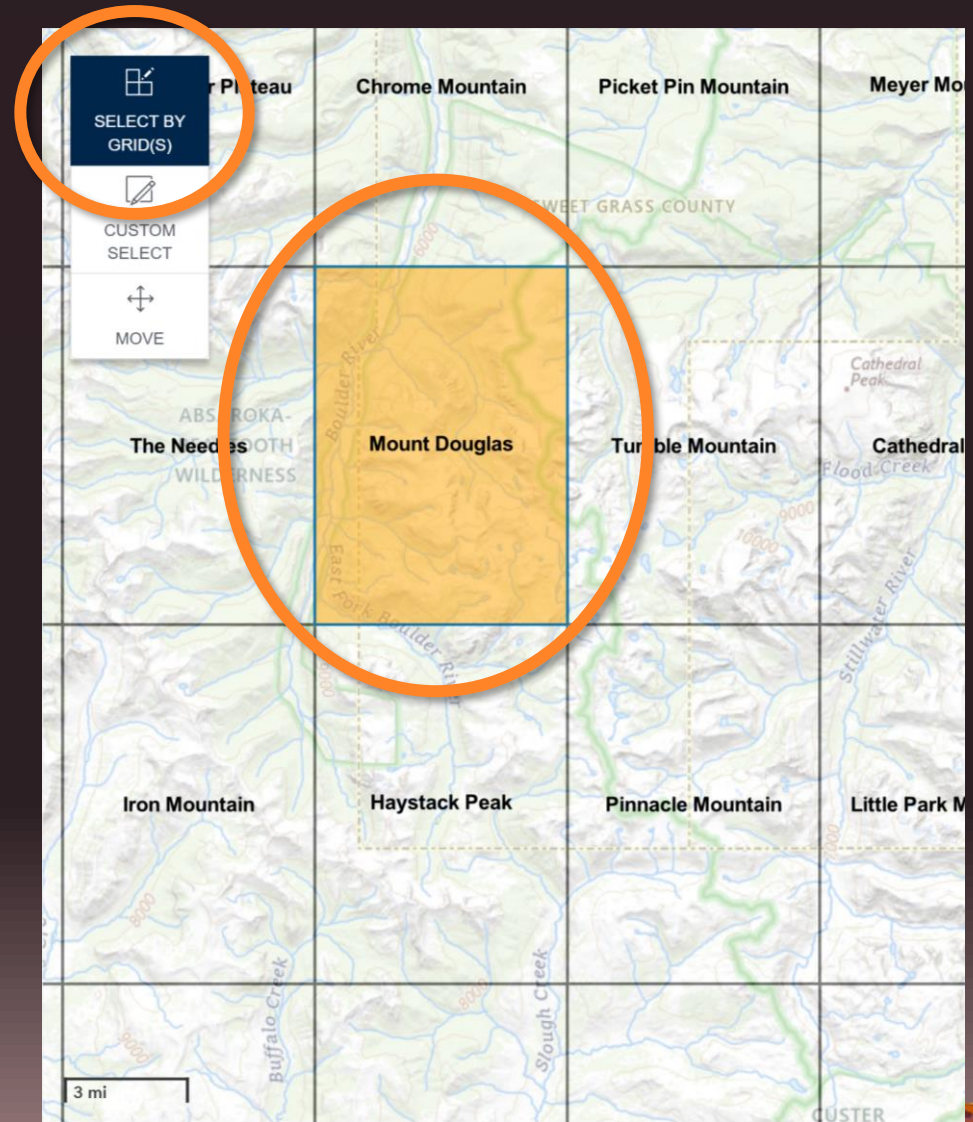
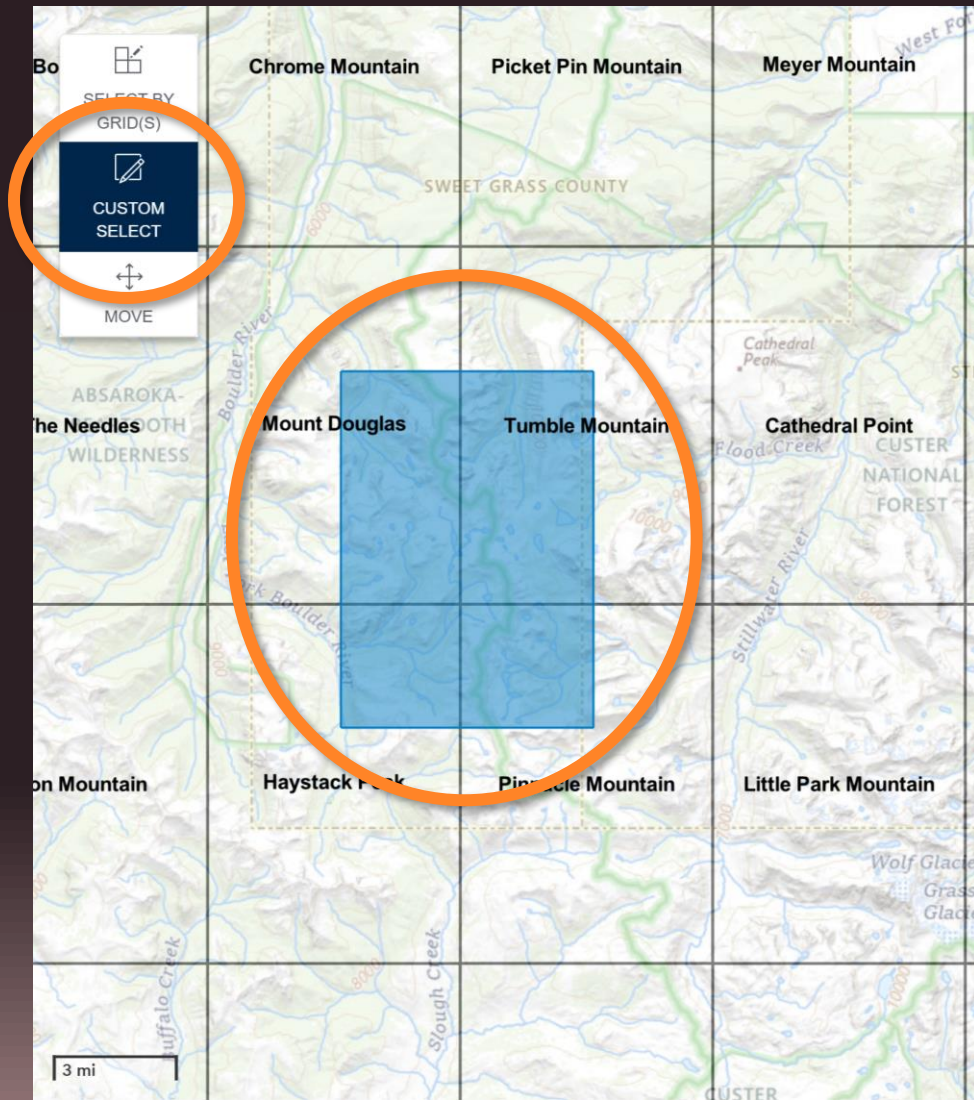
ADD

GO TO CART


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Choose map extent



Choose map layers



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topoBuilder Application

1 Map Types

2 Maps

3 Cart 1

Maps

Select area of interest on the map

Display Grid

25k Topo

SELECT ALL

HIDE OPTIONS

EDIT LAYERS

25k Topo 1

Format

PDF

BACK TO TOP

DELETE

ADD

GO TO CART

SELECT BY GRID(S)

CUSTOM SELECT

MOVE

West Boulder Plateau

Chrome Mountain

Picket Pin Mountain

The Pyramid

The Needles

Mount Douglas

Tumble Mountain

3 mi

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Wetlands Inventory, National Hydrography Dataset, National Structures Dataset, and National Transportation Dataset

Layers

Only checked layers will be included

All Layers

Geographic Names

Structures

Emergency Services

Public Services

Recreation Services

Gas & Oil Pipeline

Transportation

Roads

Trails

Airports

Railroads

Hydrography

Wetlands

Terrain

Contours

Shaded Relief Imagery

Land Cover

Boundaries

Public Land Survey

Jurisdictional

Federal Lands

Designated Areas

Orthoimage

CANCEL

SAVE

User Guide

Find address or place

+

-

Home

Layers

Full Screen

Nye

Beehive

Fishtail

Mount Wood

Emerald Lake

Mackay Ranch

Database, National Structures Dataset, and National Transportation Dataset

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Choose export options

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① Map Types

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Maps

Select area of interest on the map

Display Grid

25k Topo





SELECT ALL

HIDE OPTIONS

EDIT LAYERS

25k Topo 1



User Defined Content

Format

PDF

PDF

TIFF

BACK TO TOP

DELETE

ADD

GO TO CART

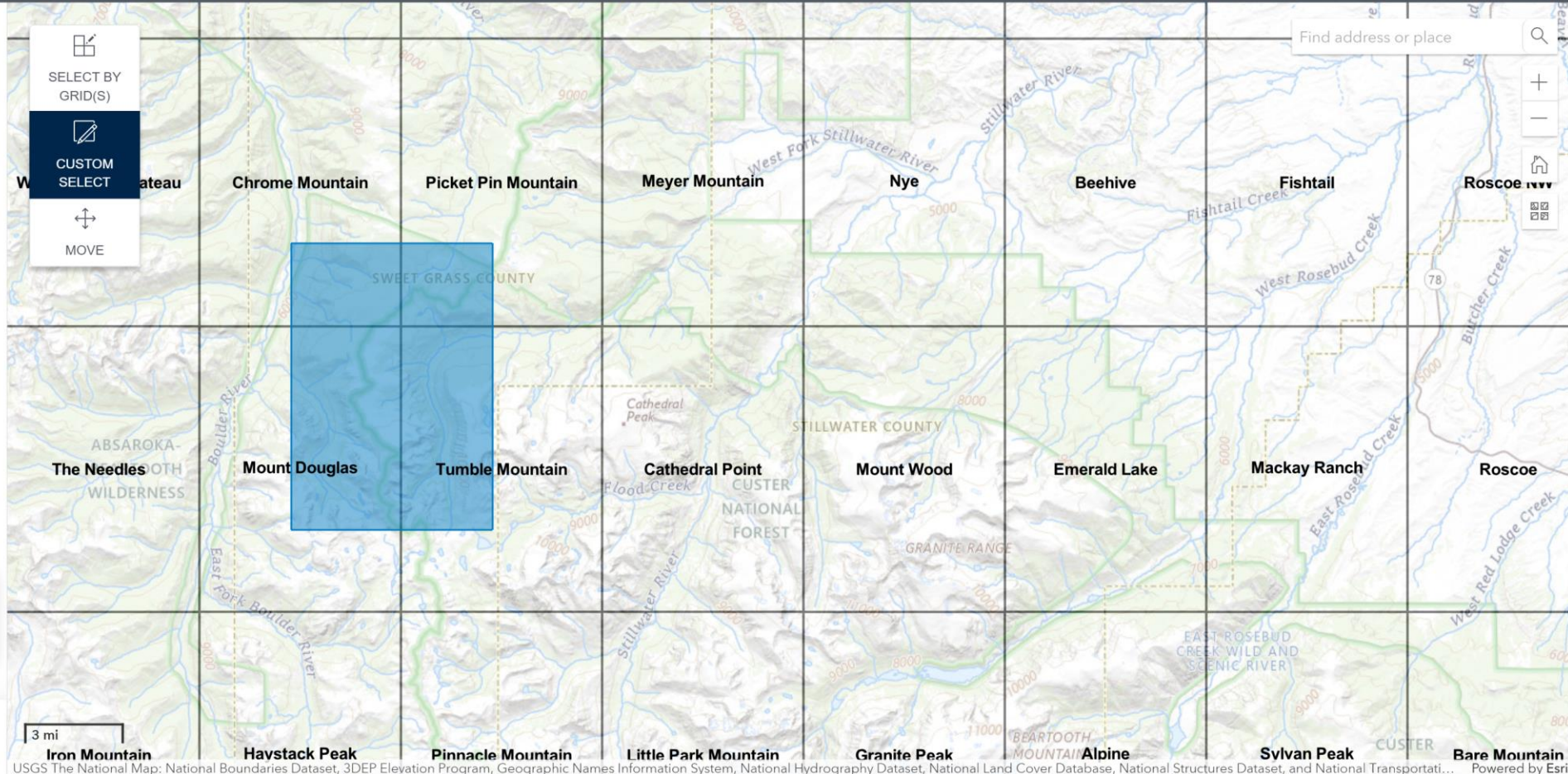
Track

Help

SELECT BY GRID(S)



CUSTOM SELECT

MOVE



3 mi

Find address or place



Choose contour smoothness

USGS science for a changing world

topoBuilder Application

① Map Types
② Maps
③ Cart 2

Maps
Select area of interest on the map

Display Grid

7.5-Minute Topo

SELECT ALL HIDE OPTIONS EDIT LAYERS

Cathedral Point

Format

PDF

Contour Smoothing

Low Medium High

BACK TO TOP

DELETE ADD GO TO CART

USGS The National Map: National Boundaries Dataset, 3DEP

only for 7.5-Minute Topo

Contour Smoothness Guide

Low Smoothing

Contours will portray the landscape and topographic features at a high detail allowing the user to better identify geographic surface characteristics. These contours are best for scientific research such as Geology, Geomorphology, and Hazards.



Medium Smoothing



CLOSE

Add map to cart

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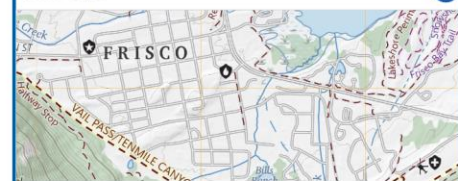
① Map Types

Maps

Select area of interest on the map

☒ Display Grid

25k Topo



[UNSELECT ALL](#) [HIDE OPTIONS](#) [EDIT LAYERS](#)


☒ 25k Topo 1

User Defined Content

Format

PDF

 Track

 Help

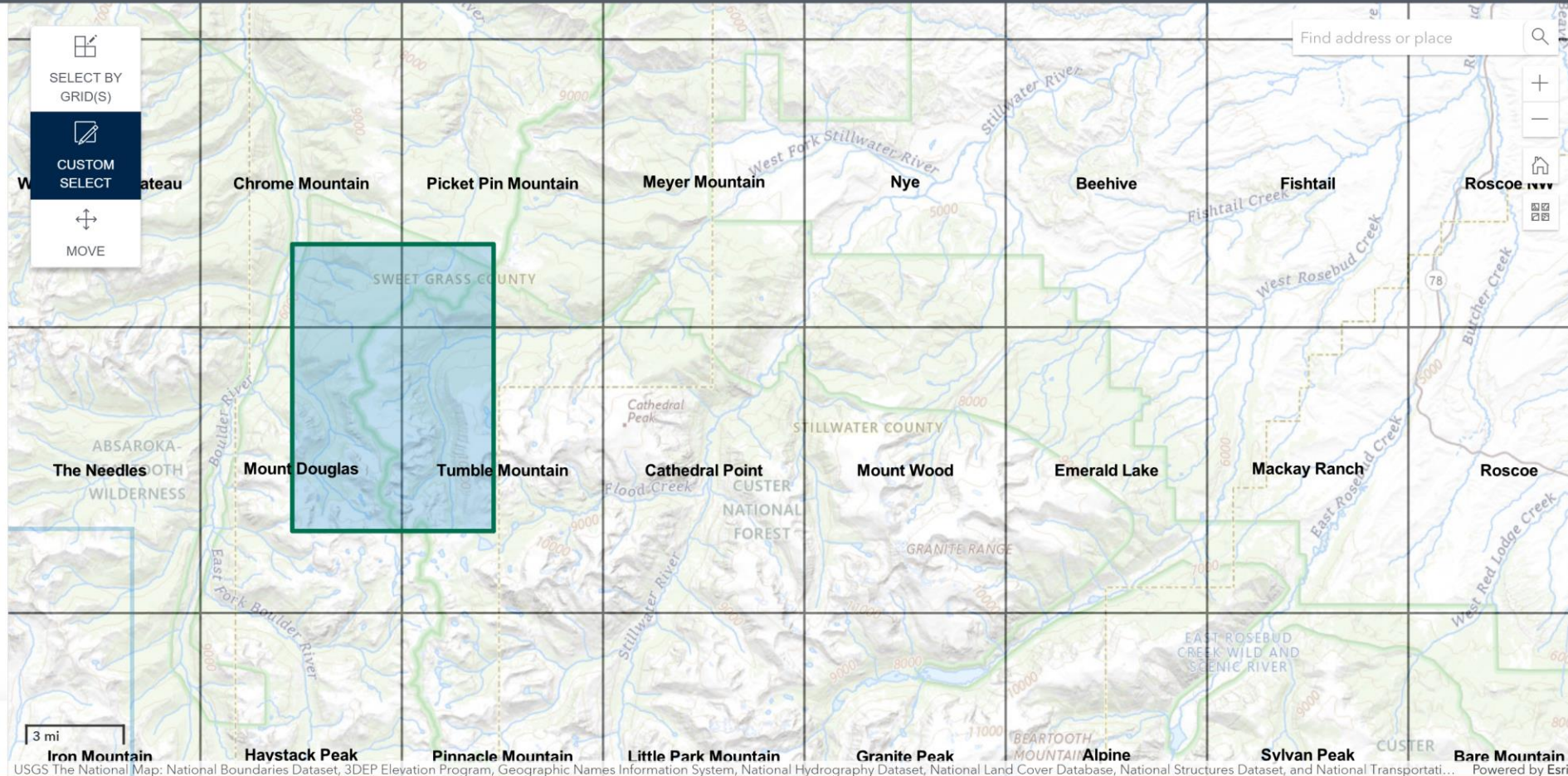


[BACK TO TOP](#)

[DELETE](#)


[ADD](#)


[GO TO CART](#)



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Review selections in cart

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User Guide

① Map Types


② Maps

③ Cart **3**

Cart

Review and finalize map selections

2 25k Topo



Mount Douglas

On-Grid

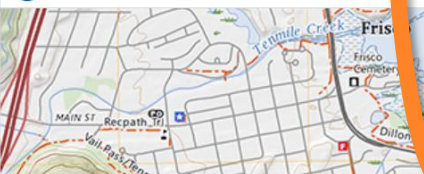
TIFF Format

25k Topo 1

Custom Extent

PDF Format

1 7.5-Minute Topo



Cathedral Point

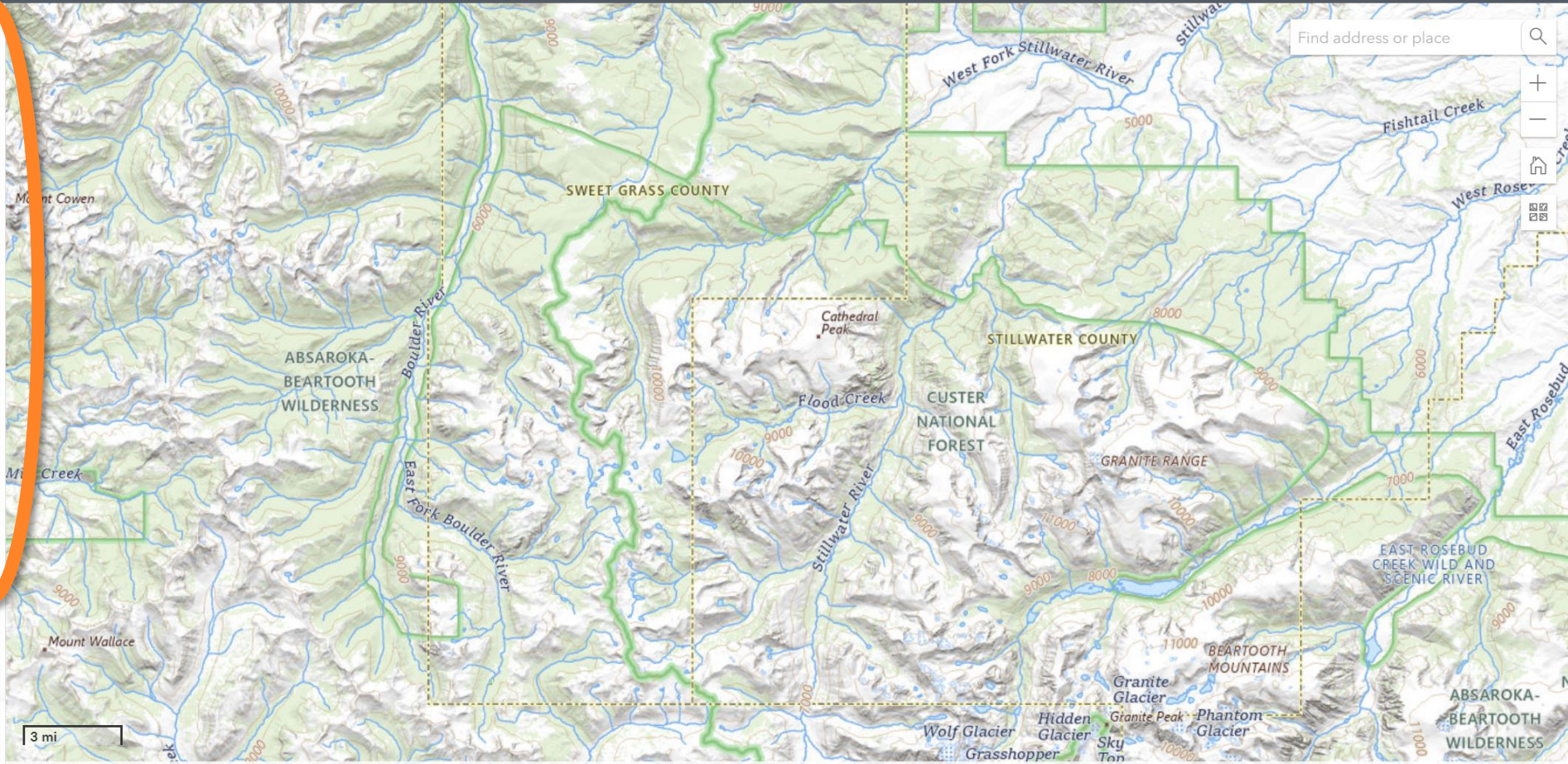
On-Grid

BACK TO TOP

SELECT MORE MAPS

CHECKOUT

Find address or place



3 mi

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User Guide

- ## ① Map Types

- ## ② Maps

- ③ Cart 3

Cart

Review and finalize map selections

2 25k Topo



Mount Douglas

On-Grid

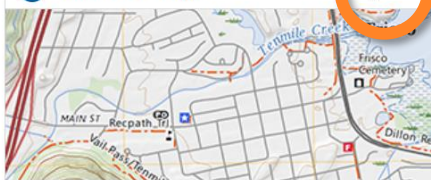
TIFF Format

25k Topo 1

Custom Extent

PDF Format

1 7.5-Minute Topo



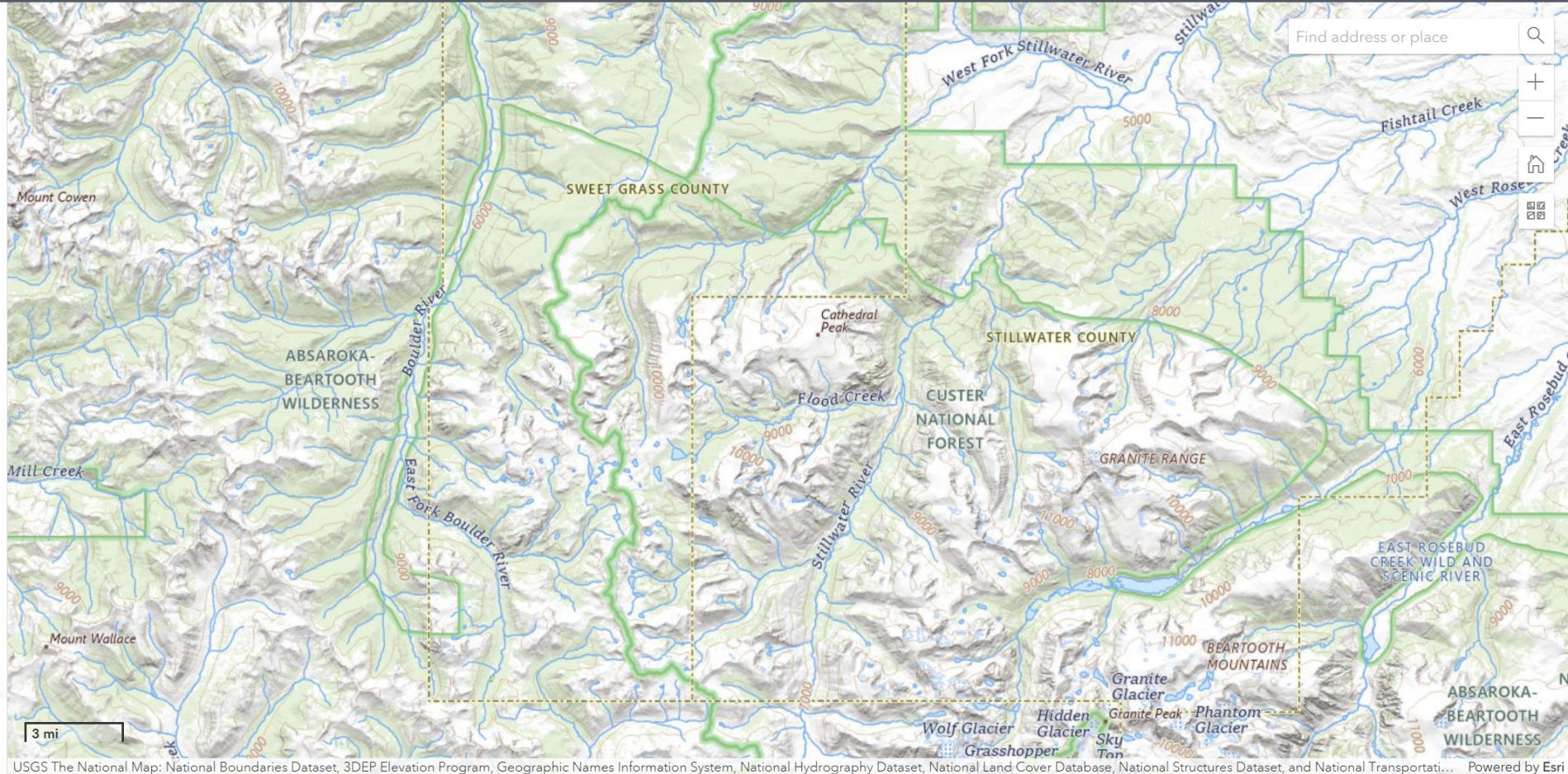
Cathedral Point

On-Grid

BACK TO TOP

SELECT MORE MAPS

CHECKOUT



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① Map Types

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Edits

Make edits to maps

Display Grid

25k Topo

EDIT LAYERS

25k Topo 1

User Defined Content

Format

PDF

Mount Douglas

User Defined Content

BACK TO TOP

CANCEL

SAVE

Find address or place

+

-

Home

Layers

Chrome Mountain

Picket Pin Mountain

Meyer Mountain

Nye

Beehive

Fishtail

Roscoe NW

Mount Douglas

Tumble Mountain

Cathedral Point

Mount Wood

Emerald Lake

Mackay Ranch

Roscoe

Castagne

Haystack Peak

Pinnacle Mountain

Little Park Mountain

Granite Peak

Alpine

Sylvan Peak


Bare Mountain

Red Lodge W

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Cart

Review and finalize map selections

2 25k Topo



Mount Douglas

On-Grid

TIFF Format

25k Topo 1

Custom Extent

PDF Format

1 7.5-Minute Topo



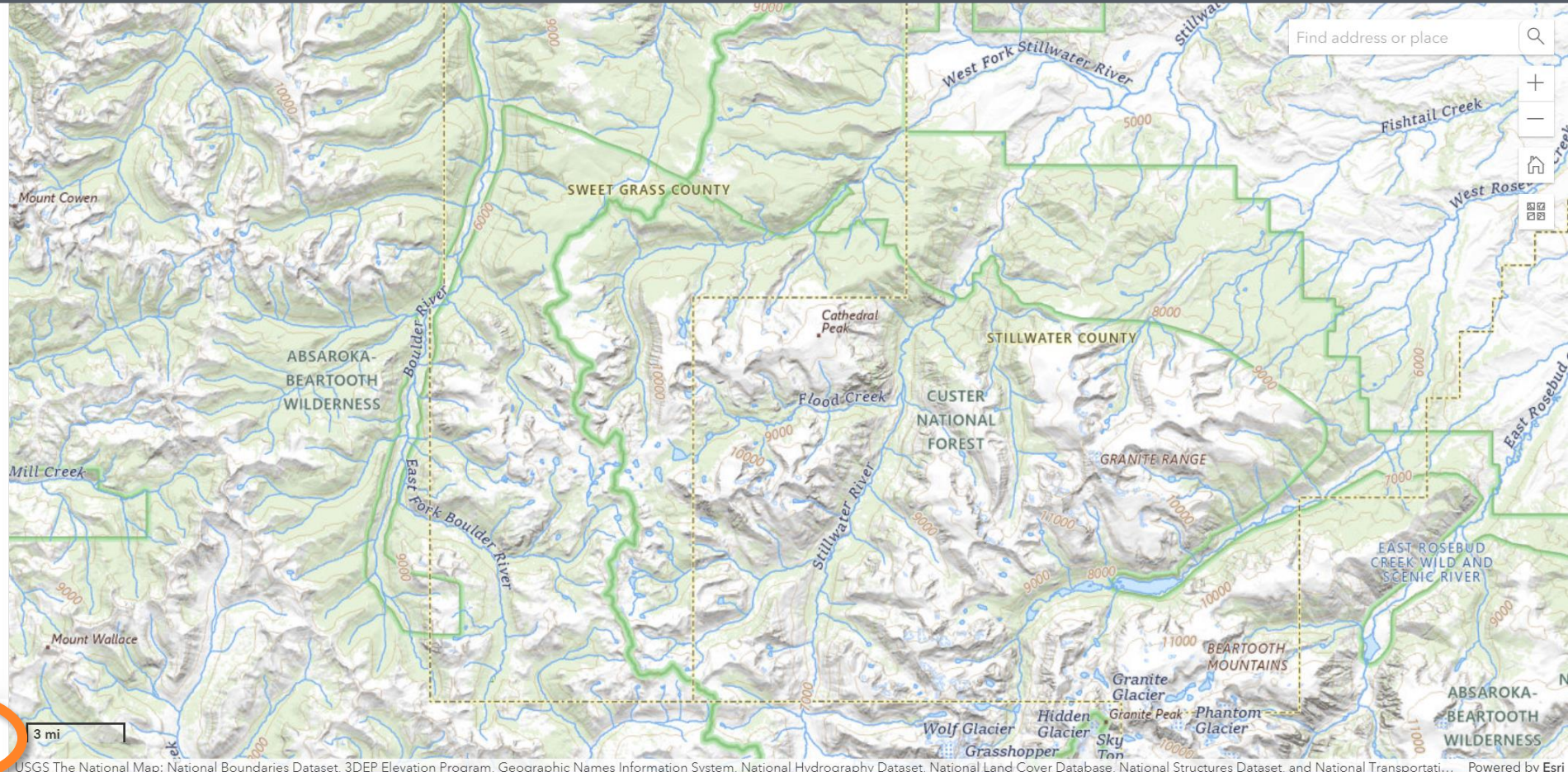
Cathedral Point

On-Grid

[BACK TO TOP](#)

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[CHECKOUT](#)



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① Map Types

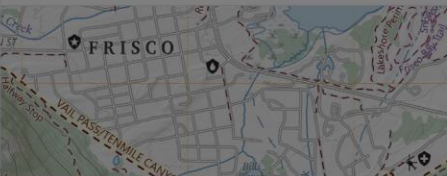
Cart

Review and finalize map selections

② Maps

③ Cart **3**

2 25k Topo



25k Topo 1

Custom Extent

PDF Format

Mount Douglas

On-Grid

TIFF Format

1 7.5-Minute Topo



Cathedral Point

On-Grid

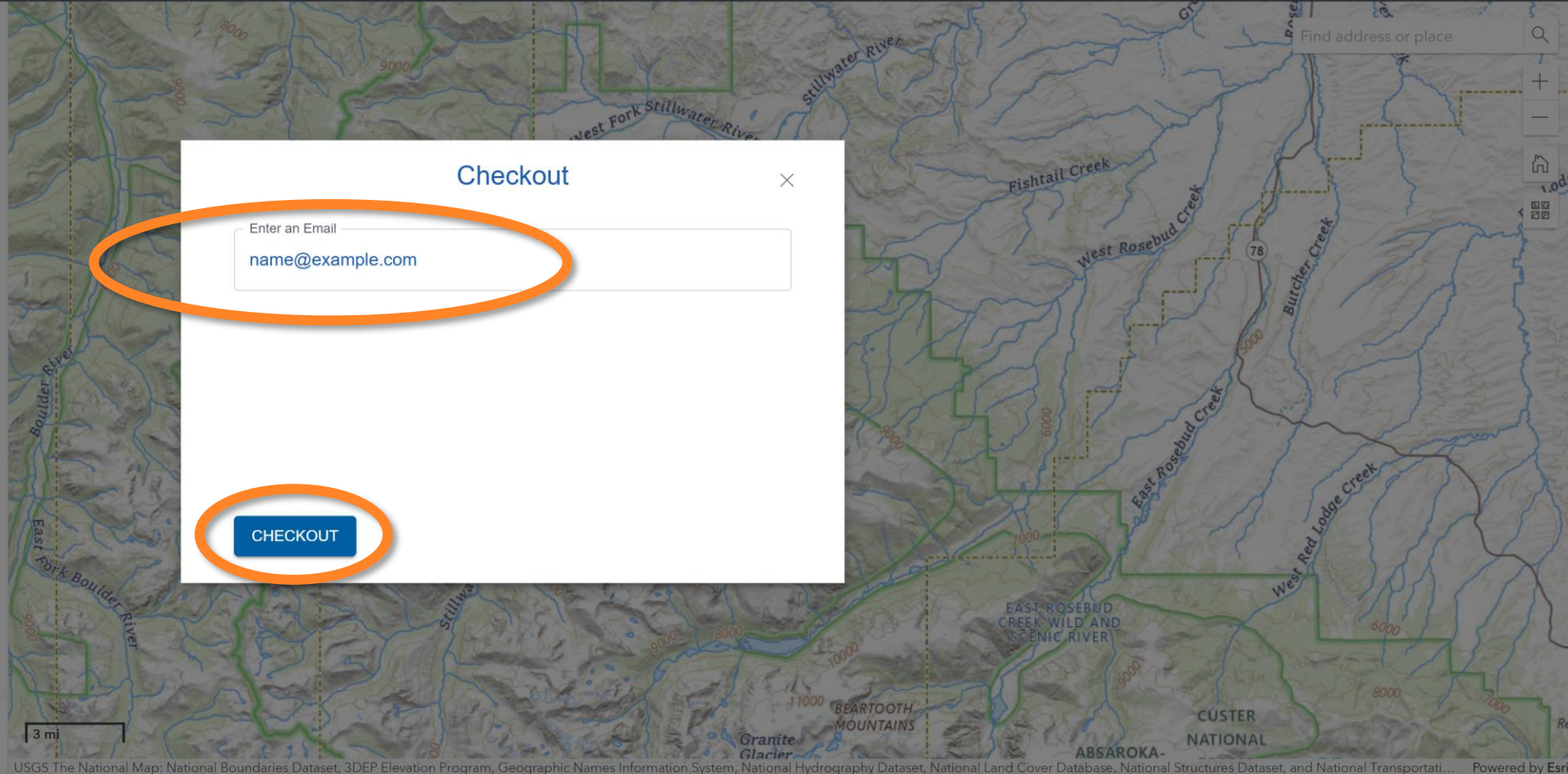
[BACK TO TOP](#)

[SELECT MORE MAPS](#)

[CHECKOUT](#)


 Track


 Help



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... Powered by Esri

Confirmation and delivery emails


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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!

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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 link will expire on May 25, 2025

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Track map order




The National Map
OnDemand Topo

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


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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

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① Map Types

② Maps

③ Cart 0

Track

Help


Track Your Order

Enter a confirmation number to track an order

Order Confirmation Number

1743000906958868

TRACK



topoBuilder Application

① Map Types

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③ Cart 0

Track

Help

Track Your Order

Enter a confirmation number to track an order

Order Confirmation Number

1743000906958868

Order date: Wed Mar 26 2025

Processing (33%)

REFRESH TRACK

Track and filter orders

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① Map Types

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 Track

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Order Confirmation Number

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Order date: Wed Mar 26 2025

Processing (33%)

1743000906958868

Order Date: Wed Mar 26 2025



Confirmed



Processing

3

Delivered

4

Expired

Search

All

Delivered

In Queue

Failed

100K Topo

7.5-Minute Topo

On-Grid

Custom

PDF

TIFF

3 products

Mount Douglas

In Queue

On-Grid

Expires: Sun May 25 2025

Product Type

25k Topo

Product Format

TIFF

Layers Removed

Contours, Public Land Survey

25k Topo 1

In Queue

Custom

Expires: Sun May 25 2025

Product Type

25k Topo

Product Format

PDF

Layers Removed

Contours, Public Land Survey

Cathedral Point

Delivered

On-Grid

Expires: Sun May 25 2025

Product Type

7.5-Minute Topo

Product Format

PDF

Layers Removed

Contours

High

19

REFRESH

TRACK

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① Map Types

② Maps

③ Cart 

 Track

 Help



Track Your Order

Enter a confirmation number to track an order

Order Confirmation Number

1743000906958868 

Order date: Wed Mar 26 2025

Processing (33%)

1743000906958868

Order Date: Wed Mar 26 2025



Search...

All

Delivered

In Queue

Failed

100K Topo

7.5-Minute Topo

On-Grid

Custom

PDF

TIFF

1 products

Cathedral Point

Delivered

On-Grid

Expires: Sun May 25 2025



Product Type

7.5-Minute Topo

Product Format

PDF

Layers Removed

Contour Smoothness

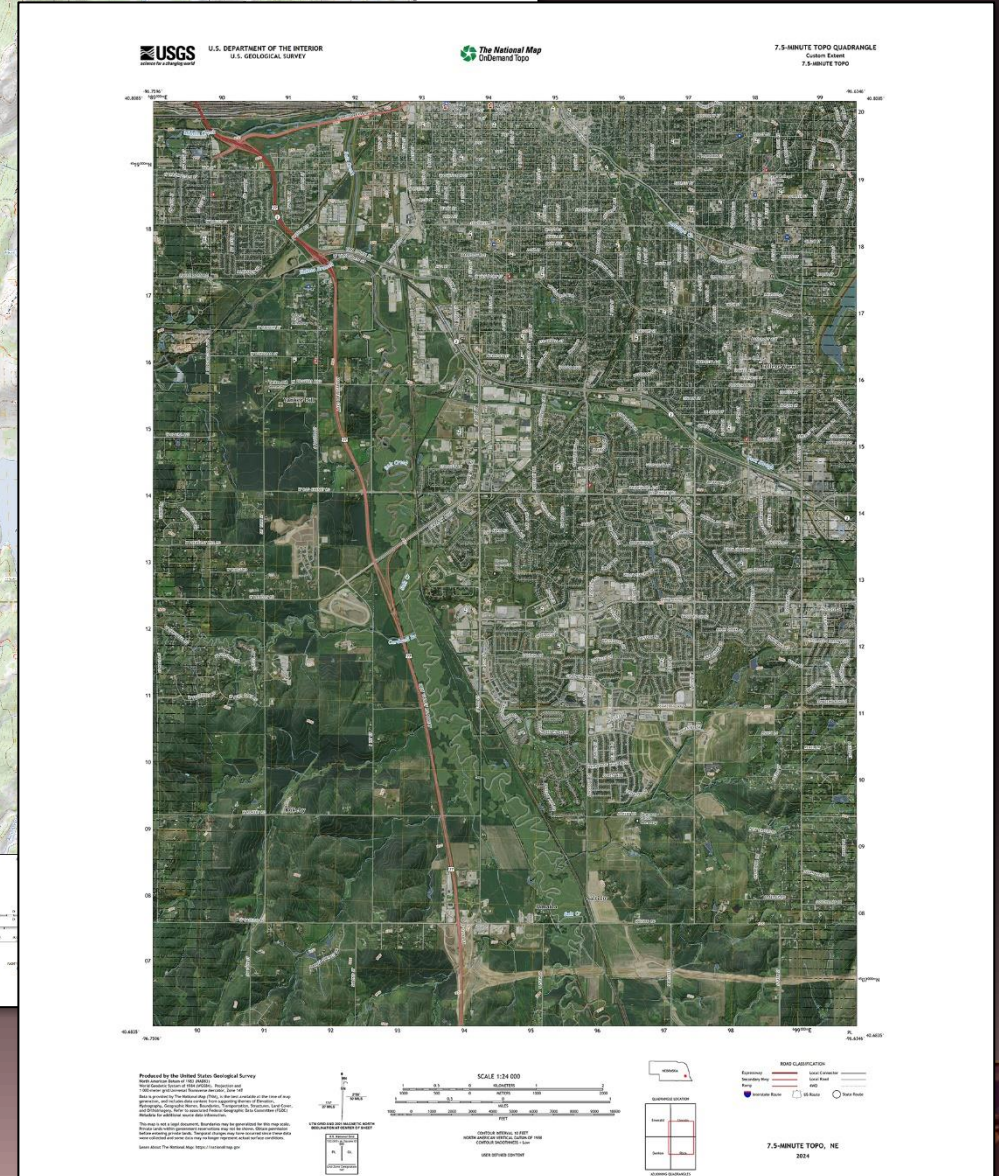
High

REFRESH

TRACK

- 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

- 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



25K Recreational Topo

- New trail symbols



- New boundary symbols



- New point symbols



- Updated contour intervals



25K Recreational Topo

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

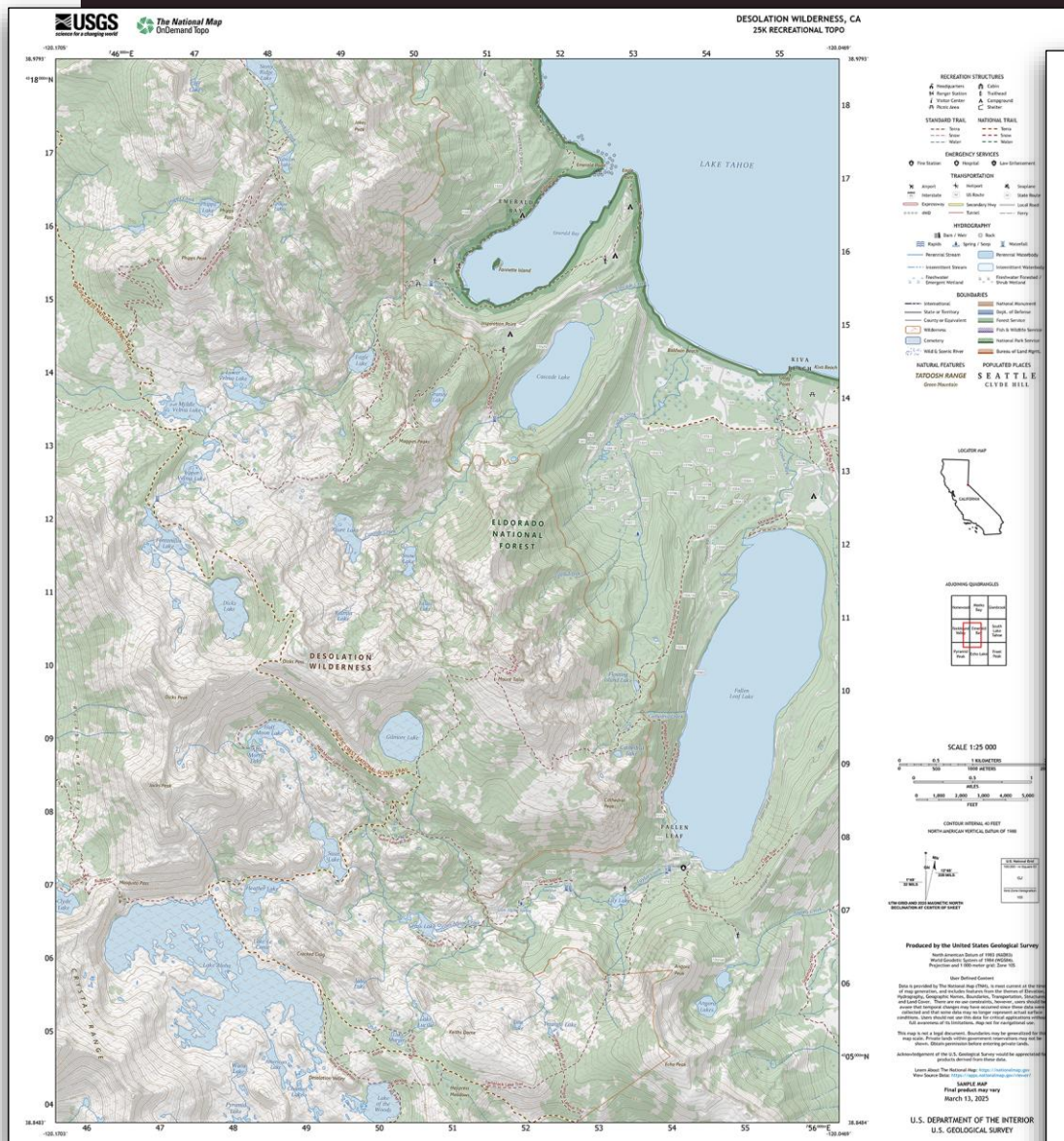
PLSS

Rails

Some structures

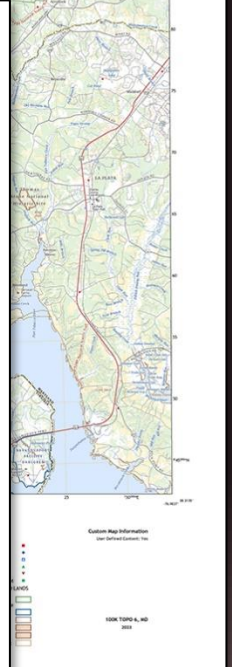
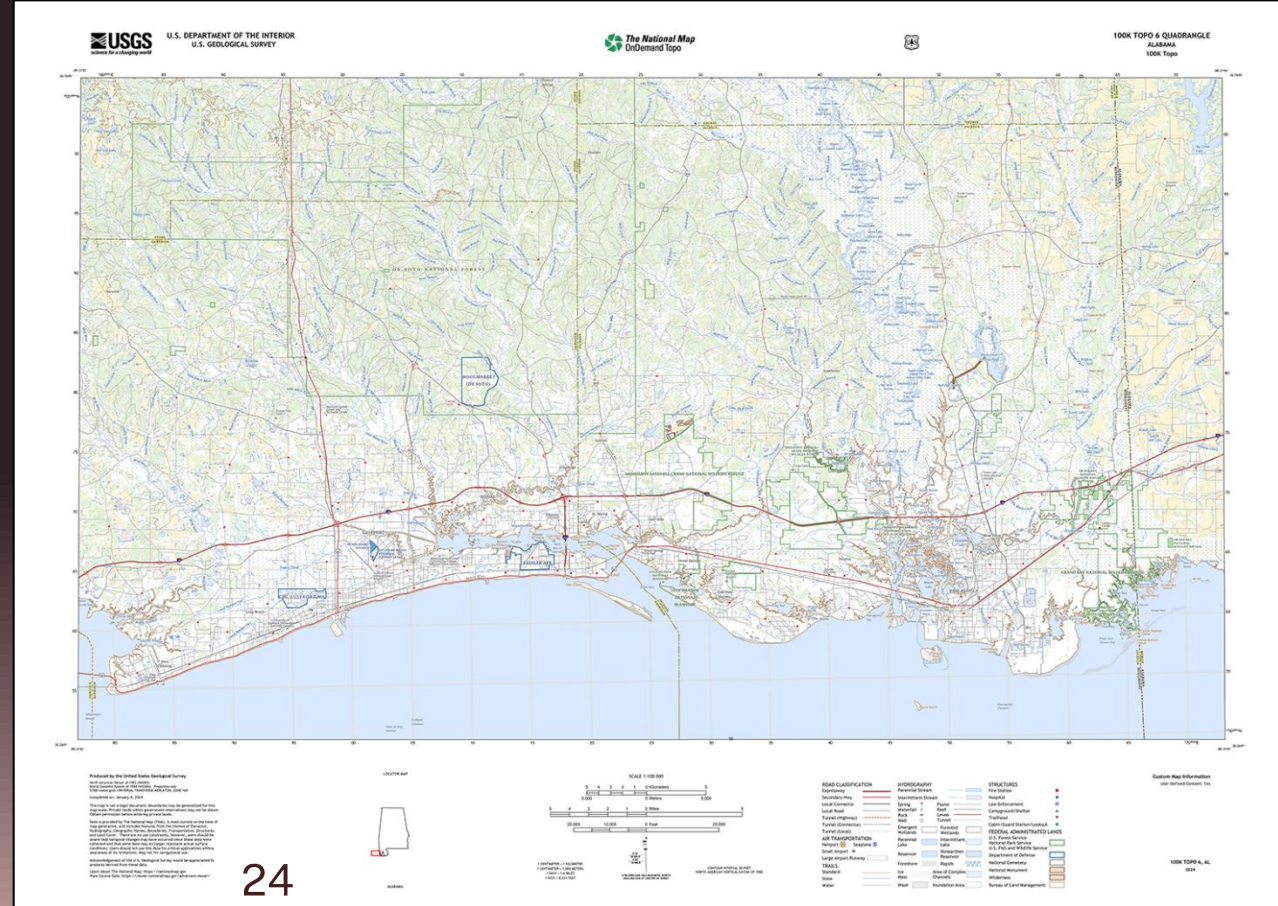
Oil & gas pipeline

Imagery



100K Topo

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



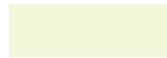
100K Topo

- Five land cover classes

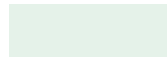
Woodland



Shrub/Scrub



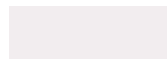
Grassland



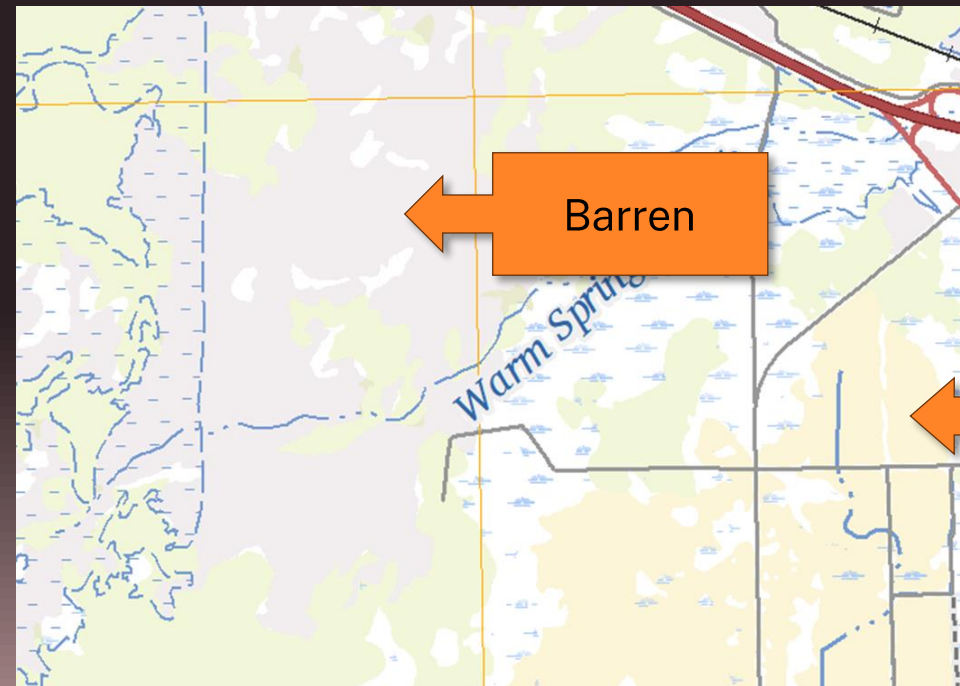
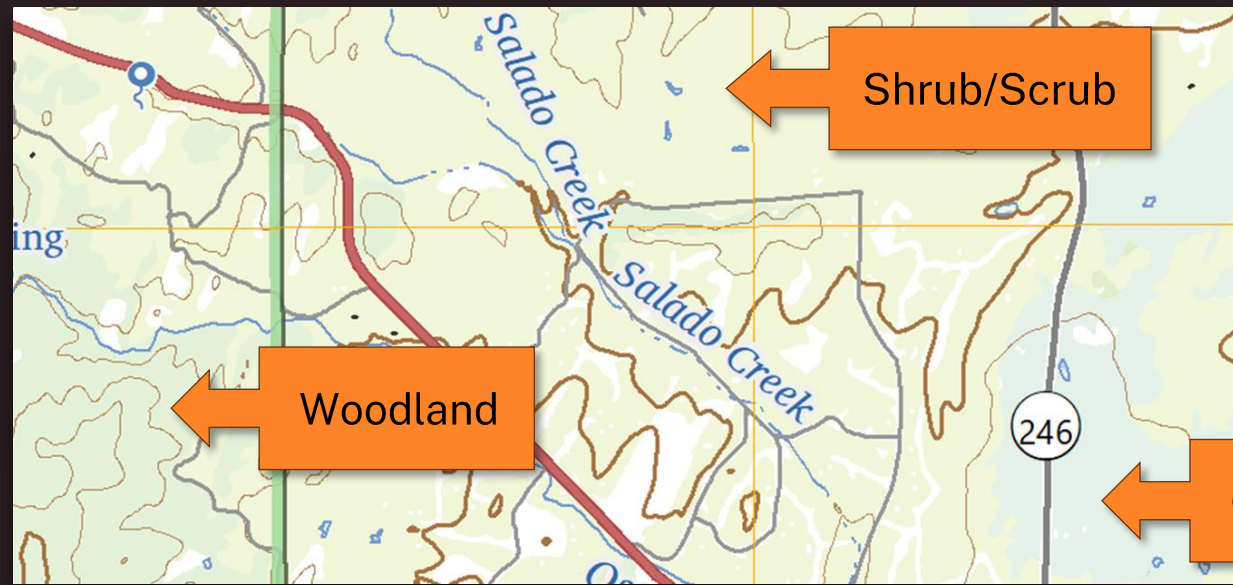
Crop/Pasture



Barren



- No imagery
- No contour smoothing



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- [topoBuilder User Guide](#)
- tnm_help@usgs.gov



Essential facts

topoBuilder is *free* to use

US Topo maps are still produced

US Topo maps & TNM data are
free and immediate downloads

For US Topo Maps Visit:

apps.nationalmap.gov/downloader

