

U.S. Forest Service Geospatial Data Discovery - User Guide

Summary: This web application allows users to find and download published U.S. Forest Service feature layer data at the full extent or within a specified area of interest. The download process creates a spreadsheet, KML, or shapefile downloaded to a user-specified location.

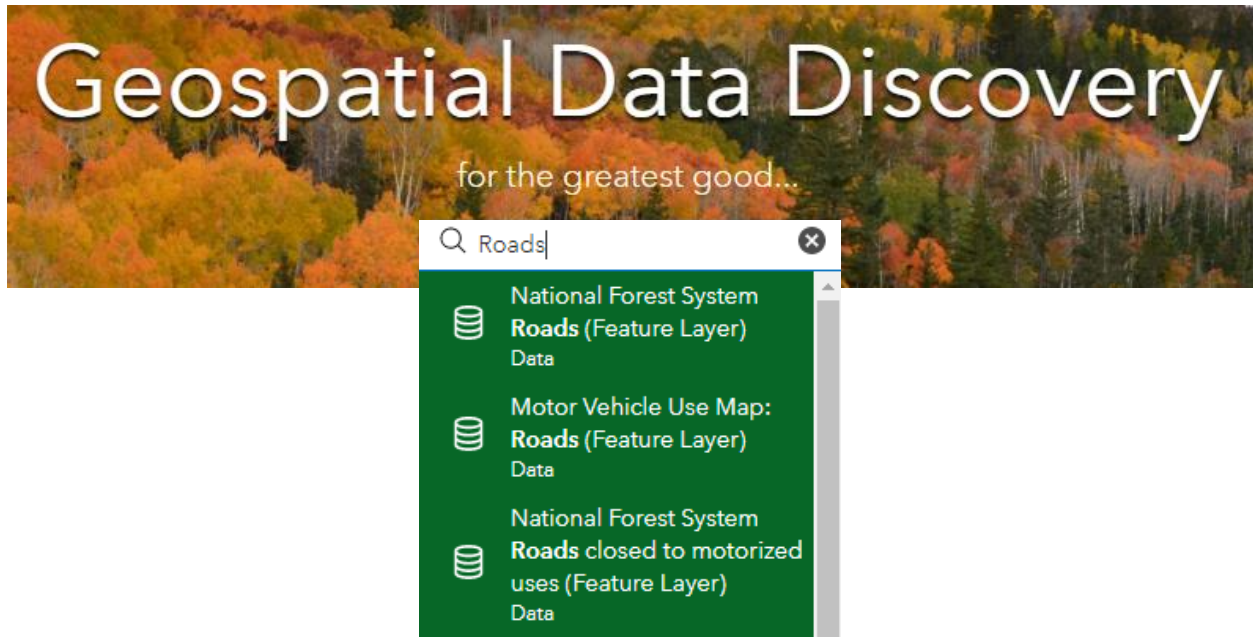
Steps to download data

Please follow the steps below to start downloading data layers for the area that you are interested in.

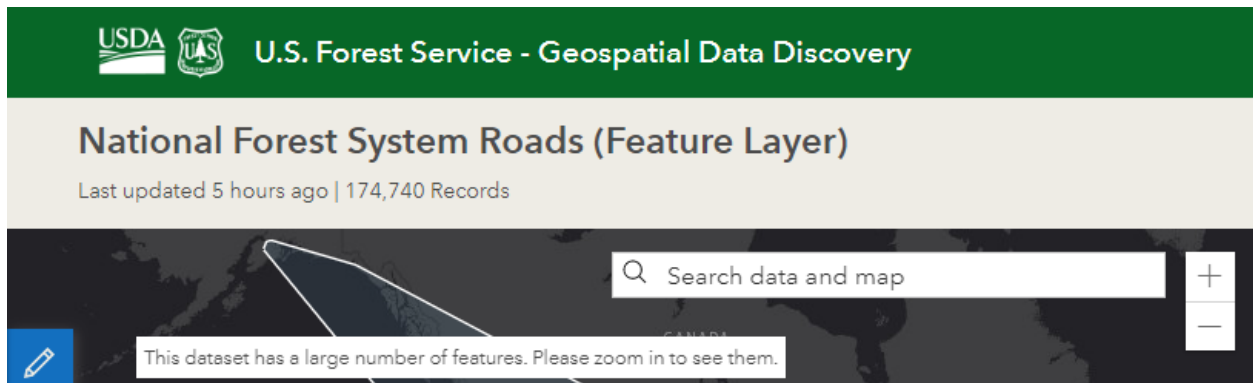
Navigate to the [U.S. Forest Service – Geospatial Data Discovery web page](#)

There are multiple ways to find data you are interested in on the main web page.

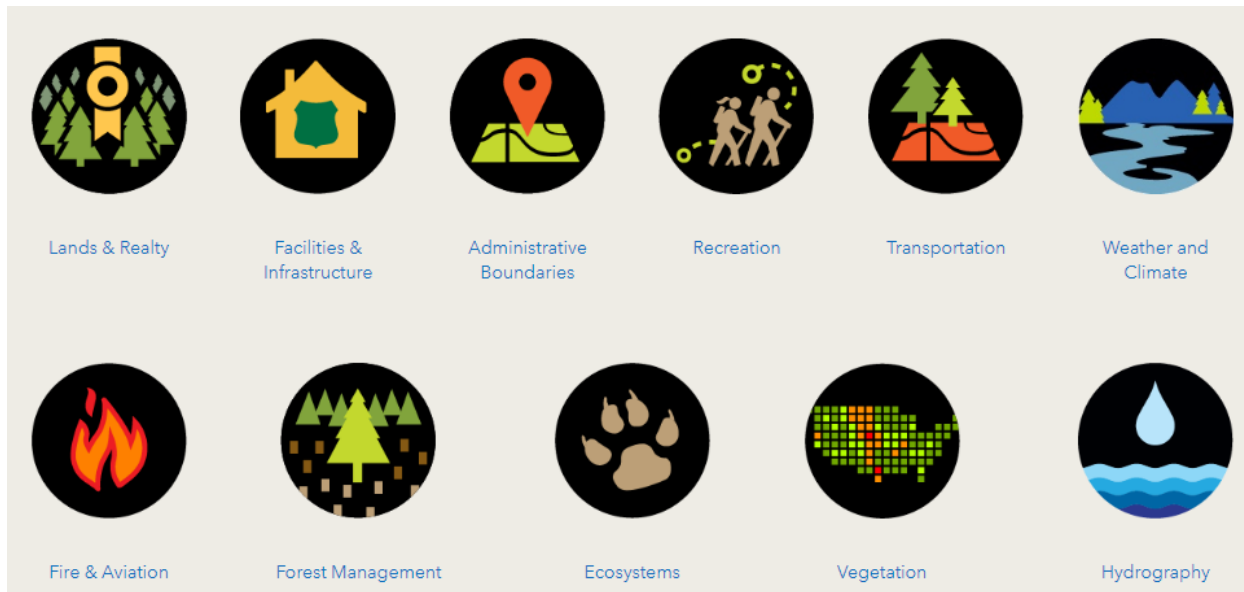
1. From the main Geospatial Data Discovery Home Page, type a search text in the Search for Data box.



- a. A list of data that matches your text will appear in the drop down. Clicking on one of the items will take you to a new page for that layer.



- From the main Geospatial Data Discovery Home Page, click on one of the category icons to see a full list of data in each category.



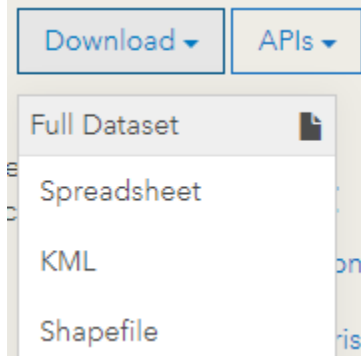
- A list of data in the category you selected will appear. Clicking on one of the items will take you to a new page for that layer.
- Filters may be applied to refine the results.

The screenshot shows the U.S. Forest Service - Geospatial Data Discovery interface. At the top, there is a green header with the USDA and U.S. Forest Service logos and the text "U.S. Forest Service - Geospatial Data Discovery". Below the header is a search bar with a magnifying glass icon and the text "Search". Underneath the search bar are five tabs: "All", "Events", "Data", "Documents", and "Apps & Maps". Below the tabs is a "Filters" section with a "Reset" link and "1 - 10 of 20 results". To the right of the filters is a dropdown menu set to "Relevance". The main content area displays a search result for "National Forest System Trails (Feature Layer)". The result includes the title, the source "U.S. Forest Service | USFSEnterpriseContent", a description: "The Trails Layer is designed to provide information about National Forest System trail locations and characteristics to the public. When fully realized, it...", and metadata: "Type: Feature Layer", "Last Updated: March 28, 2020", "Rows: 73,907", and "Tags: Transportation, Open Data". On the left side of the search results, there are two filter sections: "Content Type" with checkboxes for "Feature Layer", "Image Service", "Document Link", and "Web Mapping Application"; and "Source" with checkboxes for "U.S. Forest Service", "USFS Chief Information Office, Enterprise Data Warehouse", and "USDA Forest Service".

Download Feature Layers at Full Extent

You can download three different types of data for any item that contains (Feature Layer) in the name.

1. When you have found and clicked on a feature layer you are interested in downloading, click the Download button, then under Full Dataset click spreadsheet, KML, or Shapefile.



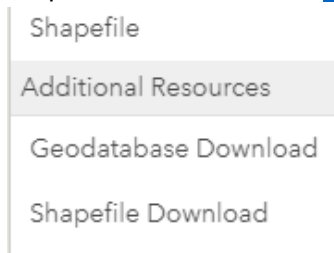
2. The data is downloaded to your hard drive. Navigate to the location of the download to see the files.

Name	Date modified	Type	Size
Today (3)			
National Forest System Roads (Feature Layer).zip	4/2/2020 2:27 PM	Compressed (zipped) ...	249,304 KB
National Forest System Roads (Feature Layer).kml	4/2/2020 2:23 PM	KML	1,127,382 KB
National Forest System Roads (Feature Layer).csv	4/2/2020 2:17 PM	Microsoft Excel Com...	84,490 KB

3. The shapefile will be downloaded as a zip file that must be unzipped before it can be loaded in a GIS software program such as ArcGIS Pro or ArcMap.
4. For large data sets, the KML file may not work within Google Earth. There is a known size [issue with Google Earth](#). If the KML file is >1GB Google Earth will have issues. Smaller KML files seem to work fine with Google Earth. Esri recommends opening an Issue with Google Earth, or using [ArcGIS Earth](#).
5. Some very large complex polygon data sets cannot be downloaded at full extent using the above method. These data sets will have a note about this.

Note: This is a large dataset. To download, go to [ArcGIS Open Data Set](#) and click the download button, and under additional resources select the shapefile or geodatabase option. The Knutson-Vandenberg Act (K-V) of June 9, 1930 (16 U.S.C. 576-576b; 46 Stat. 527), as amended by the National Forest Management Act of October 22, 1976 (16 U.S.C. 1600 et seq.) authorized

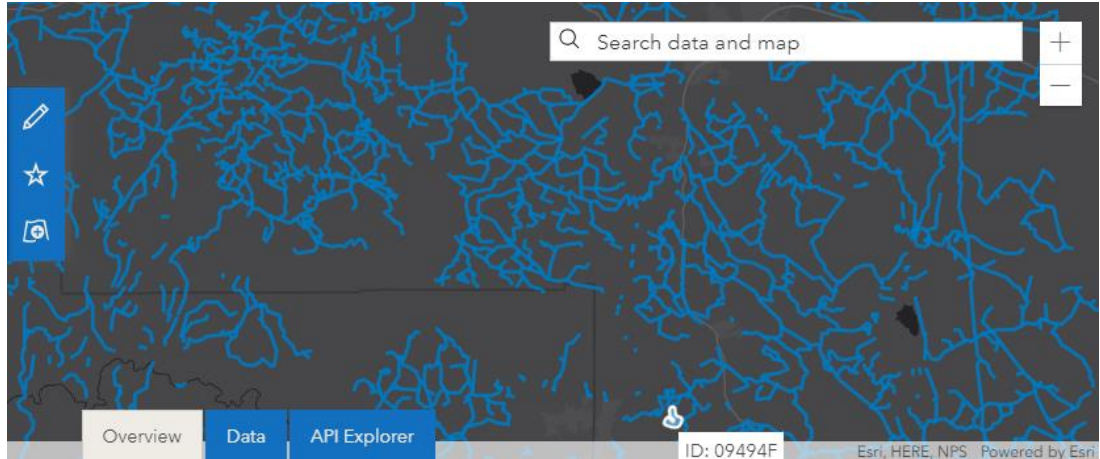
6. The Spreadsheet, KML, and Shapefile download options will not work for these data sets. Instead, click either Geodatabase Download or Shapefile Download under Additional Resources. These additional resources are full national extent zipped geodatabase or shapefiles linked from the [Geospatial Clearinghouse Downloads site](#).



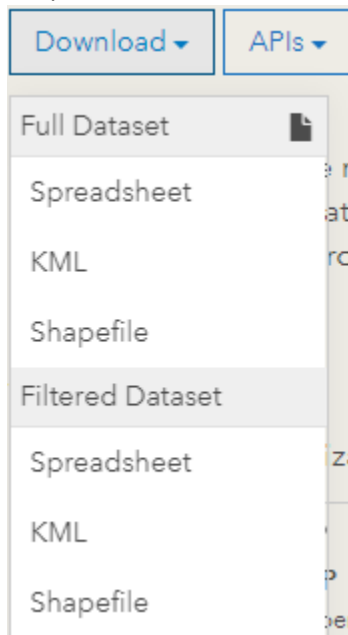
Download Feature Layers at Specified Area of Interest

You can also download data for any feature layer when you are zoomed in on the map for each layer.

1. When you have found and clicked on a feature layer you are interested in downloading, zoom into the map to a specific extent you want to download data for.



2. When you have found and clicked on a feature layer you are interested in downloading, zoom into the map to a specific extent you want to download data for.
3. Click the Download button, then under Filtered Dataset click Spreadsheet, KML, or Shapefile.

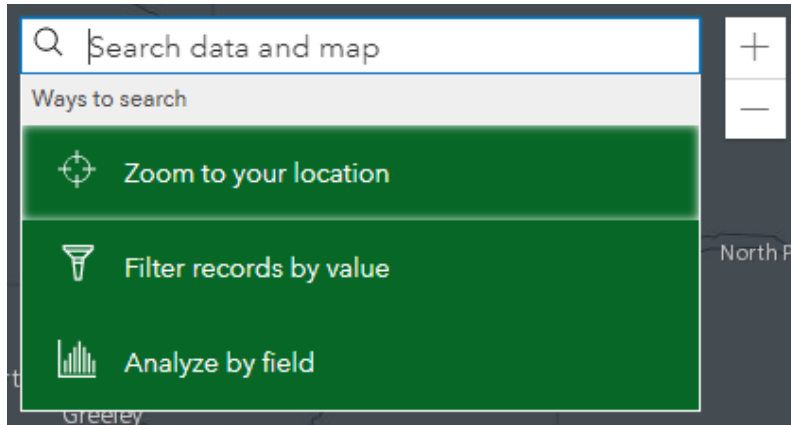


4. The data is downloaded to your hard drive. Navigate to the location of the download to see the files.

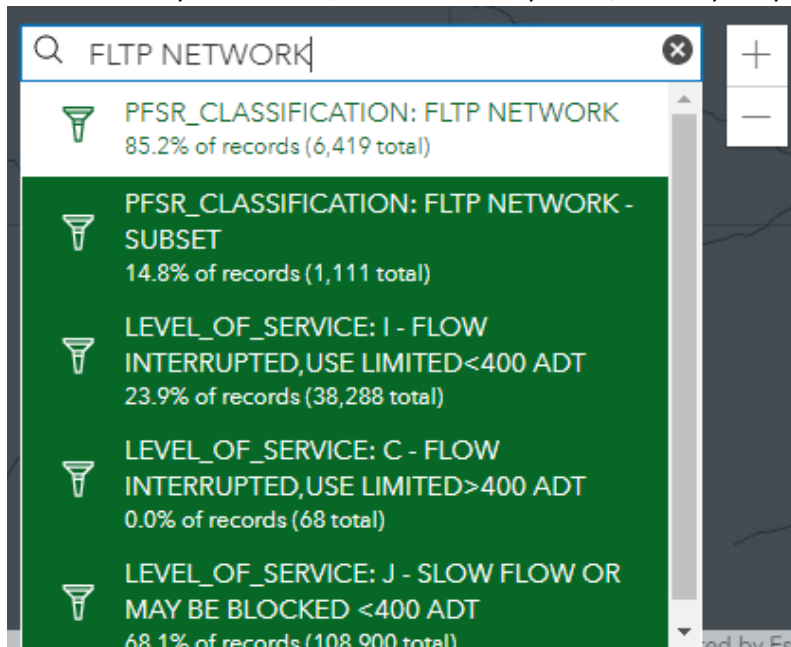
Filter Data for a Feature Layer

You can also search data and map and apply filters to the data prior to download, either at full extent or at custom extents.

1. When you have found and clicked on a feature layer you are interested in, go to the Search data and map box in the upper right of your map.



2. Click Zoom to your location, Filter records by value, or Analyze by field.



3. Records can be filtered by value to show only records that match a specific criteria. Once you click a specific filter field, the Data tab will be updated to show only the records that match the criteria.

Overview Data API Explorer

4/2/2020 Feature Layer

Showing 1 to 10 of 547 PFSR_CLASSIFICATION: FLTP NETWORK

OBJECTID	RTE_CN	BMP	EMP	ID	NAME	SYMBOL_CODE	SEG_LENGTH
857	1546010422	2.294	6.014	87006	SNOW HOLLOW	515	3.72
888	2116010454	2.49	11.5	517	DRY PARK	518	9.01
2112	2502010454	21.89	25.43	550	HOG PARK	515	3.54

- Clicking Download Filtered Dataset will only download features contained in the Data filter. If you are zoomed in on the map it will be further filtered to only download features that meet the filter criteria and shown within the current map extent.
- Filters can also be applied in the Data tab by clicking the filter icon next to a field name. Type in a specific value to show only records that match it. The screen shot below shows all roads in the table where Security_ID = 0104.

SIFICATION	MANAGING_ORG	LOC_ERROR	GIS_MILES	SECURITY_ID	OPENFORUSETO	IVM_SYMBOL
	010406	NO ERROR	8.037	0104	ALL	489 - AUXOR
	010407	NO ERROR	2.23	0104	ALL	2217G - SOUTH HALL MOUNTAIN...
	010408	NO ERROR	0.186	0104	ALL	1335B - GUINN CREEK B
	010404	NO ERROR	5.46	0104	ALL	1259 - WEST FORK MONTANA C...
	010403	NO ERROR	6.4590000000000005	0104	ALL	3097 - 4TH JULY-COPPER CREEK
	010407	NO ERROR	0.337	0104	ALL	1009B - SILVER MOUNTAIN B
	010403	NO ERROR	0.167	0104	ALL	209J - BUMBLEBEE MEADOWS
	010404	NO ERROR	10.315000000000001	0104	ALL	748 - LEMONADE
	010403	NO ERROR	3.136	0104	ALL	259 - WALL RIDGE
	010407	NO ERROR	0.35800000000000004	0104	ALL	1304H - NORTH CREEK H

- Clicking Download Filtered Dataset will only download features contained in the Data filter.

Download Raster Data for Image Services

You can also discover raster image services. Image Services will contain (Image Service) in the name of the data set.

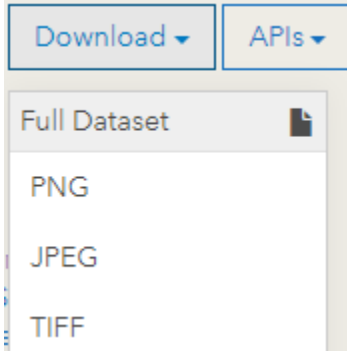
Map

Absolute change in annual temperature (CONUS) (Image Service)
 U.S. Forest Service | USFSEnterpriseContent

The National Forest Climate Change Maps project was developed by the Rocky Mountain Research Station (RMRS) and the Office of Sustainability and Climate to meet the needs of...

Type: Image Service **Tags:** USDA Forest Service, USFS, Office of Sustainability a...
Uploaded: February 11, 2020

- Image service raster data can be downloaded as a PNG, JPEG, or TIFF. To download one of these formats, click the Download option and select the type of image.



2. This is NOT the raw raster data, but a simple low resolution image file of the raster image services. To download the raw raster data, review the metadata description for a link to download the raster data. Most image services have a link to custom download locations.

Raster data are also available for download from RMRS site (<https://www.fs.fed.us/rm/boise/AWAE/projects/NFS-regional-climate-change-maps/categories/us-raster-layers.html>), along with pdf maps and detailed metadata (<https://www.fs.fed.us/rm/boise/AWAE/projects/NFS-regional-climate-change-maps/downloads/NationalForestClimateChangeMapsMetadata.pdf>).

- 3.
4. Raster downloads for the agency can also be accessed by clicking one of the links on the left side of the [FS Geodata Clearinghouse Raster Data Gateway](#).

