



Service Areas Tab Overview

USDA RUS ReConnect Program



United States
Department of
Agriculture

Rural Development

Agenda

- Service Area Mapping Tool
- Service Area Map Linkages
- Tips
- Available Resources
- Q&A

Service Area Mapping Tool



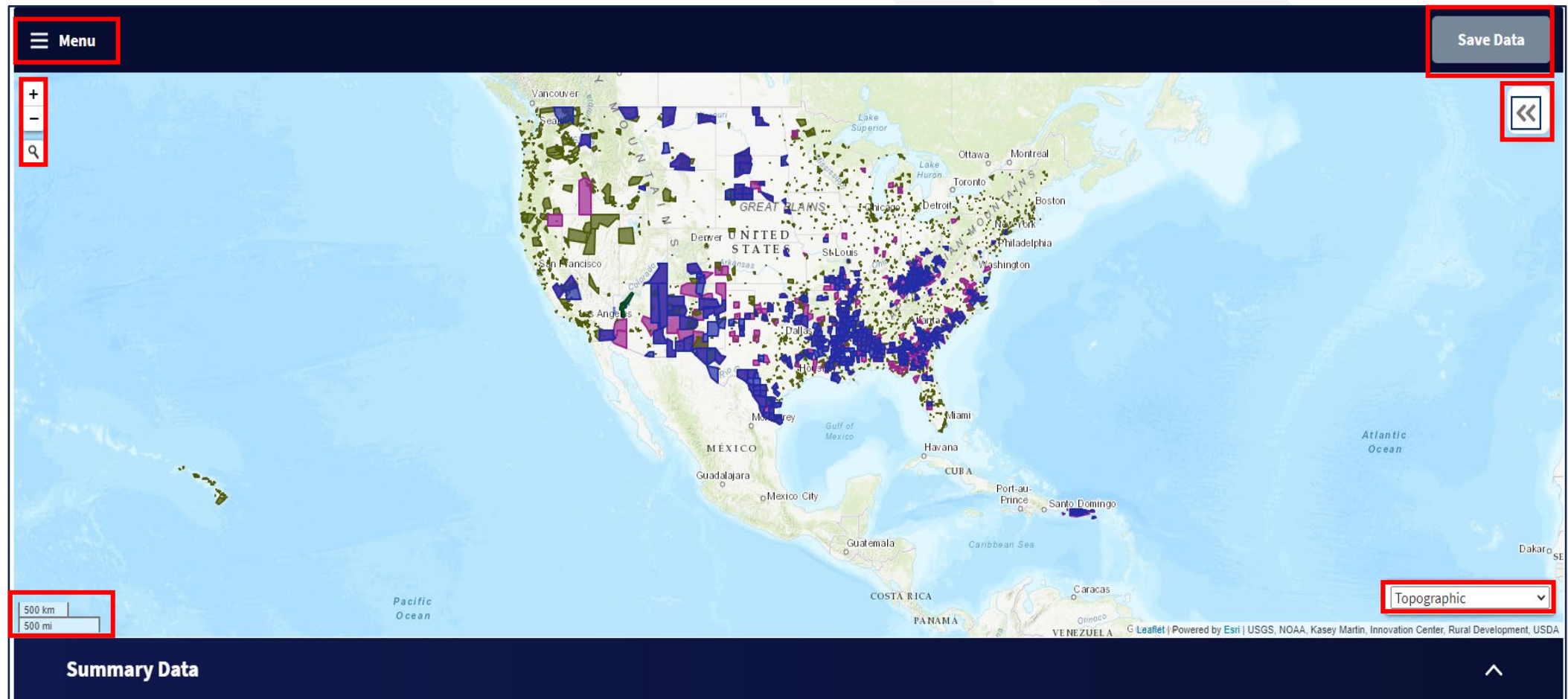
Introduction to Service Area Mapping in ReConnect Application Portal

- The Service Area Mapping Tool is used to draw PFSA's and NFSA's
- A Proposed Funded Service Area (PFSA) is defined as the area where the applicant is requesting funds to provide broadband service.
- A Non-Funded Service Area (NFSA) is defined as any area in which the applicant offers service or intends to offer service during the forecast period but is not a part of its PFSA.

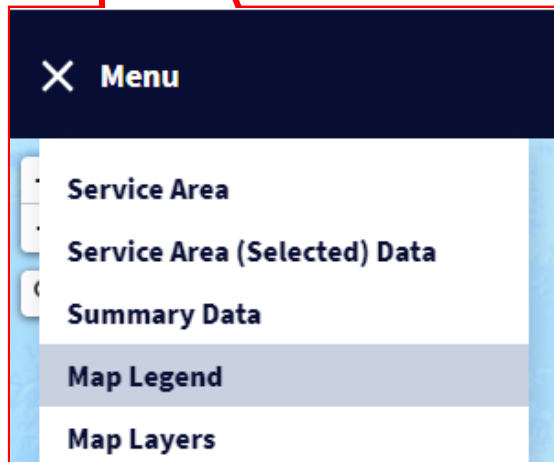
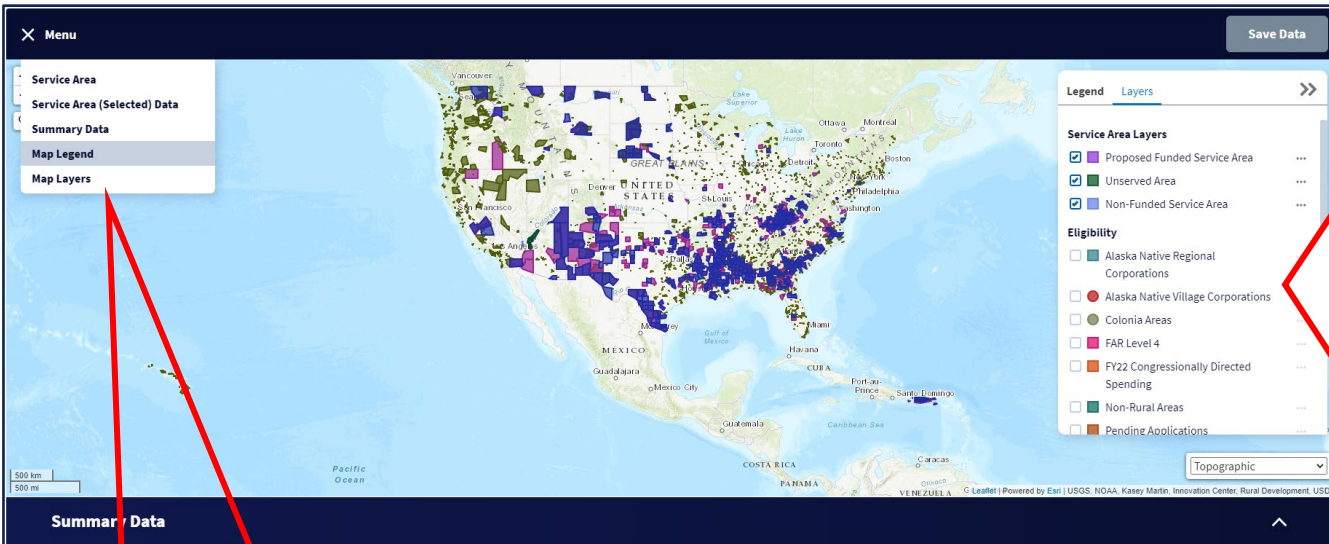
Service Area Mapping Tool

Project	Service Area(s)	Network	Financials	Environmental	Evaluation Criteria	Licenses & Agreements	Certifications	Documents	Summary/Submit
Project Information NEPA Review Project Documents	Service Area(s) Information	Network Design Build-out Timeline and Milestones Capital Investment Workbook (CIW) Capital Investment Schedule Network Documents	Local Network Services Revenue Competitor Service Offerings Depreciation Schedule Long-Term Debt Schedule Amortization Schedule Non-Operating Net Income Plant-in-Service Schedule Network Access Services Revenue Income Statement Balance Sheet Statement of Cash Flow Financial Documents	Construction Map Site/Route Descriptions Environmental Questionnaire Environmental Documents	Evaluation Criteria Evaluation Criteria Summary Evaluation Criteria Documents	Licenses & Agreements	Certifications Certification Documents	Manage Uploaded Documents	Summary/Submit

Service Area Mapping Tool



Service Area Map Legend and Layers



LegendLayers>>

Service Area Layers

☐ Proposed Funded Service Area

☐ Unserved Area

☐ Non-Funded Service Area

Eligibility

☐ Alaska Native Regional Corporations

☐ Alaska Native Village Corporations

☐ Colonia Areas

☐ FAR Level 4

☐ FY22 Congressionally Directed Spending

☐ Non-Rural Areas

☐ Pending Applications

Evaluation Criteria

☐ Economic Need of Community

☐ Rurality - 100 Miles from Urbanized Areas

☐ Socially Vulnerable Communities

Tribal Lands

☐ Tribal Area (BIA LAR)

☐ Tribal Supplemental Area (BIA LAR)

☐ Tribal Statistical Area (BIA)

☐ Tribal Area in Alaska (Census)

Service Area Layers

- ☐ Proposed Funded Service Area
- ☐ Unserved Area
- ☐ Non-Funded Service Area

Eligibility

- ☐ Alaska Native Regional Corporations
- ☐ Alaska Native Village Corporations
- ☐ Colonia Areas
- ☐ FAR Level 4
- ☐ FY22 Congressionally Directed Spending
- ☐ Non-Rural Areas
- ☐ Pending Applications
- ☐ Persistent Poverty Counties
- ☐ Protected Broadband Borrower Service Areas
- ☐ RDOF - Ready To Authorize

Evaluation Criteria

- ☐ Economic Need of Community
- ☐ Rurality - 100 Miles from Urbanized Areas
- ☐ Socially Vulnerable Communities

Tribal Lands

- ☐ Tribal Area (BIA LAR)
- ☐ Tribal Supplemental Area (BIA LAR)
- ☐ Tribal Statistical Area (BIA)
- ☐ Tribal Area in Alaska (Census)

Adding Service Areas

Menu

- Service Area**
- Service Area (Selected) Data
- Summary Data
- Map Legend
- Map Layers

Save Data

Service Areas **Data**

+ Add Service Area

Proposed Funded Service Areas

No Proposed Funded Service Areas have been created.
Click the "Add Service Area" button to create one.

Non-Funded Service Areas

No Non-Funded Service Areas have been created.
Click the "Add Service Area" button to create one.

Topographic

Summary Data

500 km
500 mi

Leaflet | Powered by Esri | Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, AAFC, NRCAN, Kasey Martin, Innovation Center, Rural Development, USDA

Add Service Area Window

- Upload shapefile requirements:
 - All map areas must be closed, non-overlapping polygons with a single, unique identifier.
 - The Shapefile must have an assigned projection with an accompanying .prj file.
 - The Shapefile must use an unprojected (geographic) WGS84 geographic coordinate system.
 - The Shapefile must be submitted as a *.zip file. This can be done with a WinZip or in Windows by selecting the files associated with a Shapefile, right-clicking the files, then clicking “Send” to Compressed (zipped) fold. The *.zip file must contain only one Shapefile.
 - The .zip file size must not exceed 2GB

Add Service Area

SERVICE AREA FUNDING* **SERVICE AREA TYPE***

Select One Select One

SERVICE AREA NAME*

Enter a Service Area Name

Draw or Upload a Service Area

Click 'Upload Files' to upload an ESRI zipped shapefile of your Service Area or drag and drop your shapefile to the 'drop files' zone

The shapefile must comply with the following specifications:

1. For Proposed Funded Service Areas, the Shapefile can only include a single contiguous polygon.
2. For Non Funded Service Areas, the Shapefile can include multi-part features or multiple non-contiguous polygons.
3. The polygon(s) must be closed, non-overlapping, and must have an assigned projection with an accompanying .prj file.
4. The Shapefile must use an unprojected WGS84 Geographic Coordinate System.
5. The Shapefile must be submitted as a *.zip file. This can be done with WinZip or in Windows by selecting the files associated with a Shapefile, right-clicking the files, then clicking Send to Compressed (zipped) folder.

Or drop files

No file chosen.

☐ I do not have a file to upload. I will draw my area on the map using the draw tool

Creating a Service Area Polygon

The screenshot shows a web application interface for creating a service area polygon. The main map displays a topographic view of a region in Kansas, including towns like Phillips, Jewell, Concordia, and Lincoln, and features like Kirwin Reservoir, Waconda Lake, and Wilson Lake. A red dashed rectangle highlights a specific area on the map, with a blue line indicating the start of a new polygon. A tooltip with the text "Click to place first vertex" points to the starting point of this line. Another tooltip with the text "Click to continue drawing" points to a subsequent point on the line. In the top left corner, a "Menu" button is visible. In the top right corner, there is a "Save Data" button. On the right side, a sidebar contains a "Service Areas" tab and a "Data" tab. Below these tabs is a "+ Add Service Area" button. The sidebar also lists "Proposed Funded Service Areas" and "Non-Funded Service Areas". A red box highlights a message under "Proposed Funded Service Areas" that reads: "Please upload or draw a Proposed Funded Service Area to the map before attempting to save the map data." At the bottom right, a scale bar indicates 20 km and 10 mi, and a "Topographic" map style selector is visible.

Menu

Save Data

Service Areas Data

+ Add Service Area

Proposed Funded Service Areas

Cherry Hill PFSA

Please upload or draw a Proposed Funded Service Area to the map before attempting to save the map data.

Non-Funded Service Areas

No Non-Funded Service Areas have been created. Click the "Add Service Area" button to create one.

Click to place first vertex

Click to continue drawing

Topographic

USGS, NGA, EPA, NPS, Kasey Martin, Innovation Center, Rural Development, USDA

Editing a Service Area Polygon

The screenshot displays a web-based GIS application interface. On the left, a vertical toolbar contains several icons, with the 'Edit' icon (a pair of scissors) highlighted by a red rectangle. The main map area shows a topographic view of Stafford County, Virginia, with a purple polygon representing a service area. The polygon is located near the Potomac River and the Stafford State Park. The right-hand panel contains a 'Service Areas' tab and a 'Data' tab. Under the 'Service Areas' tab, there is a '+ Add Service Area' button. Below this, the 'Proposed Funded Service Areas' section lists 'Cherry Hill PFSA' with a 'Base PFSA' button. A red box highlights a message: 'To save a PFSA, the unserved area must meet the minimum number of households without sufficient access to broadband.' Below this, the 'Non-Funded Service Areas' section states: 'No Non-Funded Service Areas have been created. Click the "Add Service Area" button to create one.' The bottom of the interface shows a scale bar (2 km, 1 mi) and a map attribution: 'Leaflet | Powered by Esri | Stafford County GIS Office, VITA, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS, Kasey Martin, Innovation Center, Rural Development, USDA'.

Menu

Save Data

Service Areas Data

+ Add Service Area

Proposed Funded Service Areas

Cherry Hill PFSA

Base PFSA

To save a PFSA, the unserved area must meet the minimum number of households without sufficient access to broadband.

Non-Funded Service Areas

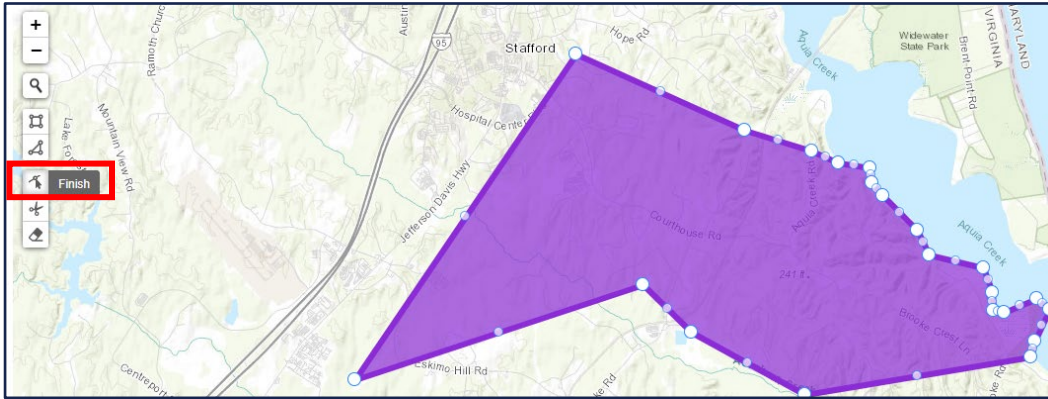
No Non-Funded Service Areas have been created. Click the "Add Service Area" button to create one.

Topographic

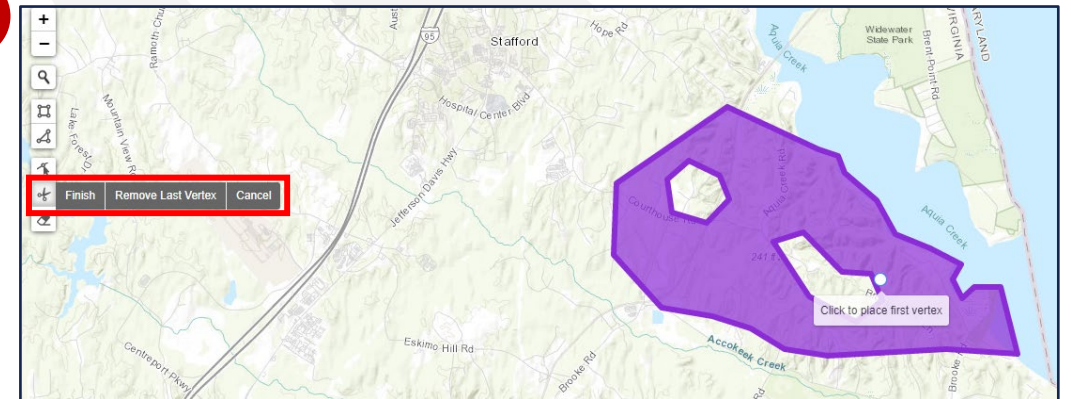
Leaflet | Powered by Esri | Stafford County GIS Office, VITA, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS, Kasey Martin, Innovation Center, Rural Development, USDA

Editing a Service Area Polygon

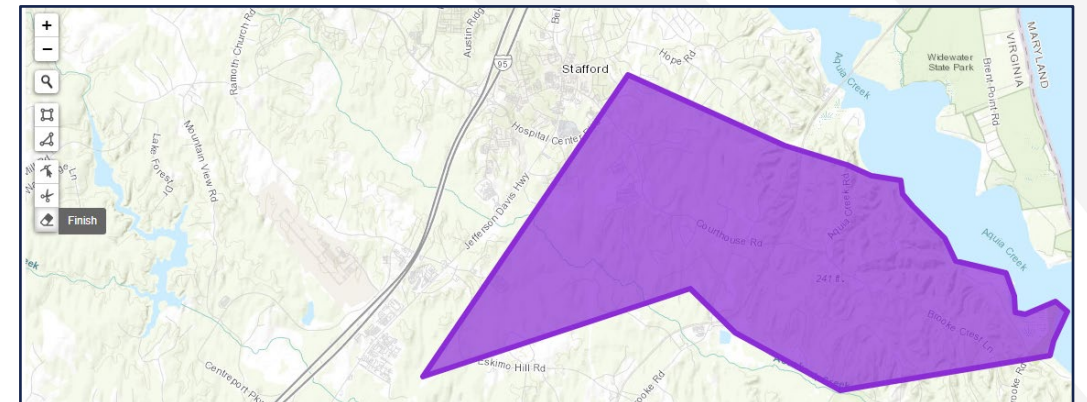
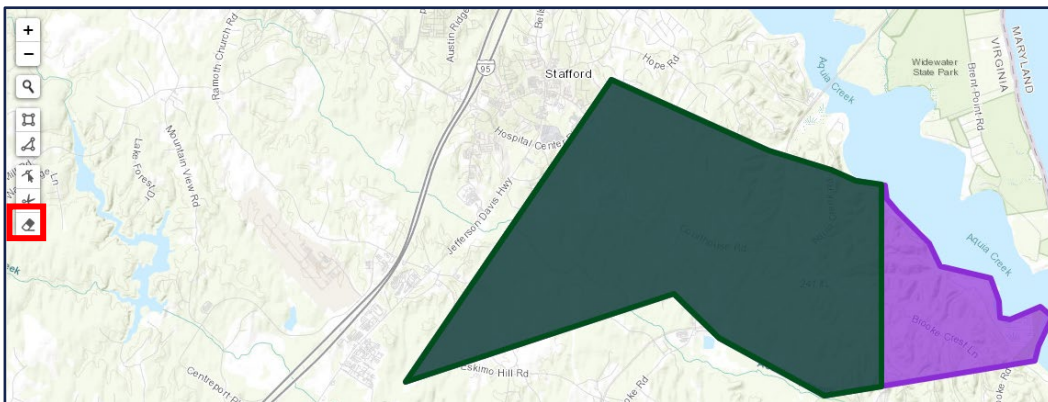
1



2



3



Marking Households Without Sufficient Access to Broadband

Service Areas

Data

>>

+ Add Service Area

Proposed Funded Service Areas

▲

▼

👁️

✏️

🔍

Cherry Hill PFSA

🗑️

👁️

Base PFSA

+

✖️

To save a PFSA, the unserved area must meet the minimum number of households without sufficient access to broadband.

Non-Funded Service Areas

▲

No Non-Funded Service Areas have been created.

Click the "Add Service Area" button to create one.

Add an Unserved Area

An Unserved Area can be a whole Service Area, or a portion of a Service Area housing a percentage of households without sufficient access to broadband. There are three different ways to mark these sections: you can mark the whole service area as unserved, upload a shapefile for the unserved area, or draw the shape out manually.

Draw or Upload an Unserved Area

Click 'Upload Files' to upload an ESRI zipped shapefile of your Service Area or drag and drop your shapefile to the 'drop files' zone

The shapefile must comply with the following specifications:

1. For Unserved Areas, the Shapefile can include multi-part features or multiple non-contiguous polygons.

2. The polygon(s) must be closed, non-overlapping, and must have an assigned projection with an accompanying .prj file.

3. The Shapefile must use an unprojected WGS84 Geographic Coordinate System.

4. The Shapefile must be submitted as a *.zip file. This can be done with WinZip or in Windows by selecting the files associated with a Shapefile, right-clicking the files, then clicking Send to Compressed (zipped) folder.

Upload Files

Or drop files

No file chosen

OR

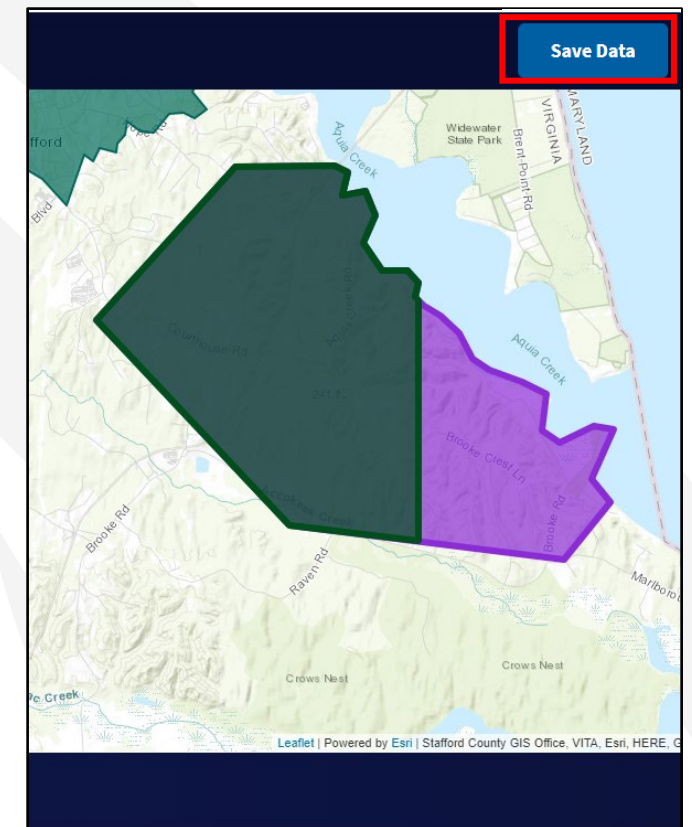
☐ I do not have a file to upload. I will draw my Unserved area on the map using the draw tool

OR

☐ Check this box to mark the whole Service Area as the Unserved Area

Cancel

Add Unserved Area



Service Area Data

- Once an applicant has drawn their service area, it is possible to see a variety of data on said service area, to include:
 - population
 - household counts
 - square mileage
 - congressional districts
 - and more
- Applicants can use this information to ensure they have drawn their service areas and unserved areas correctly.

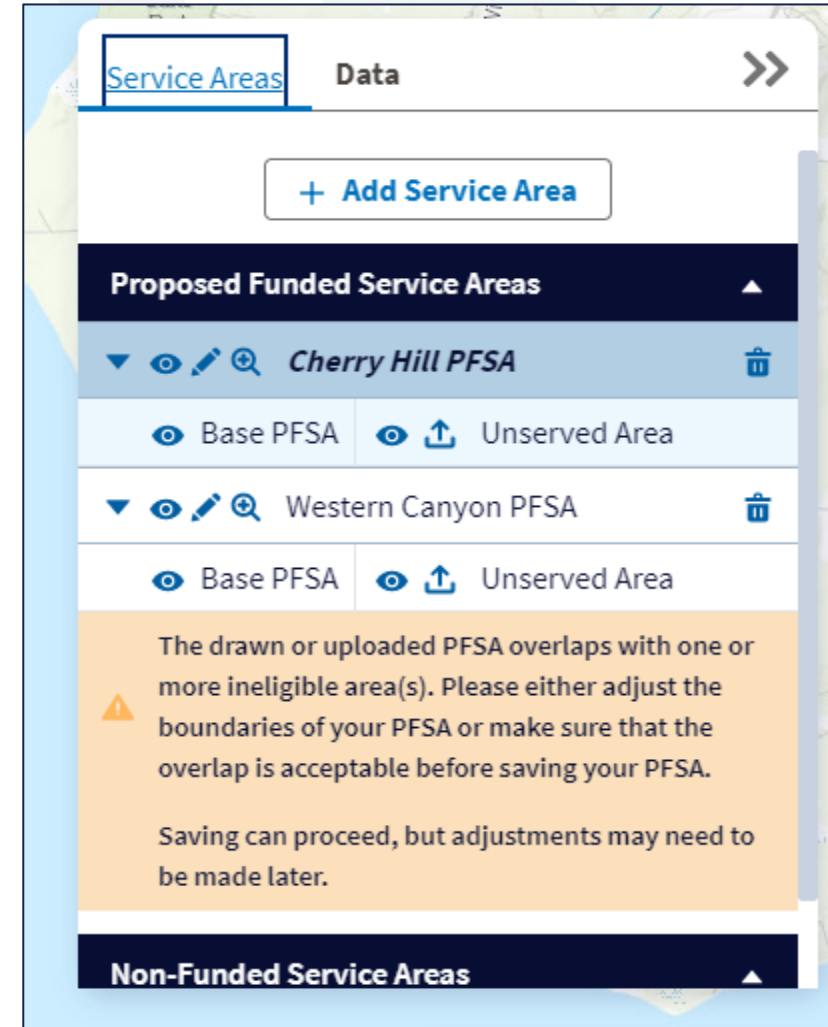
Service Areas Data >>					
Area Information					
Name	Funding	Type	Company Name		Square Miles
Western Canyon PFSA	Proposed	New	Petty Wireless		222
	Population	Housing Units	Households	HH Without Sufficient Access to Broadband	% HH Without Sufficient Access to Broadband
	11,469	6,085	5,019	5,019	100%
Congressional Districts AZ-01, AZ-04					
Demographics					
Race		Population	Ethnicity		Population
Asian		129	Hispanic or Latino		1,331
Black or African American		104	Not Hispanic or Latino		10,138
Native American or Alaskan Native		425			
Native Hawaiian or Pacific Islander		35			
White		9,371			
Multiple Races Selected		994			
Other Races		411			

Summary Data

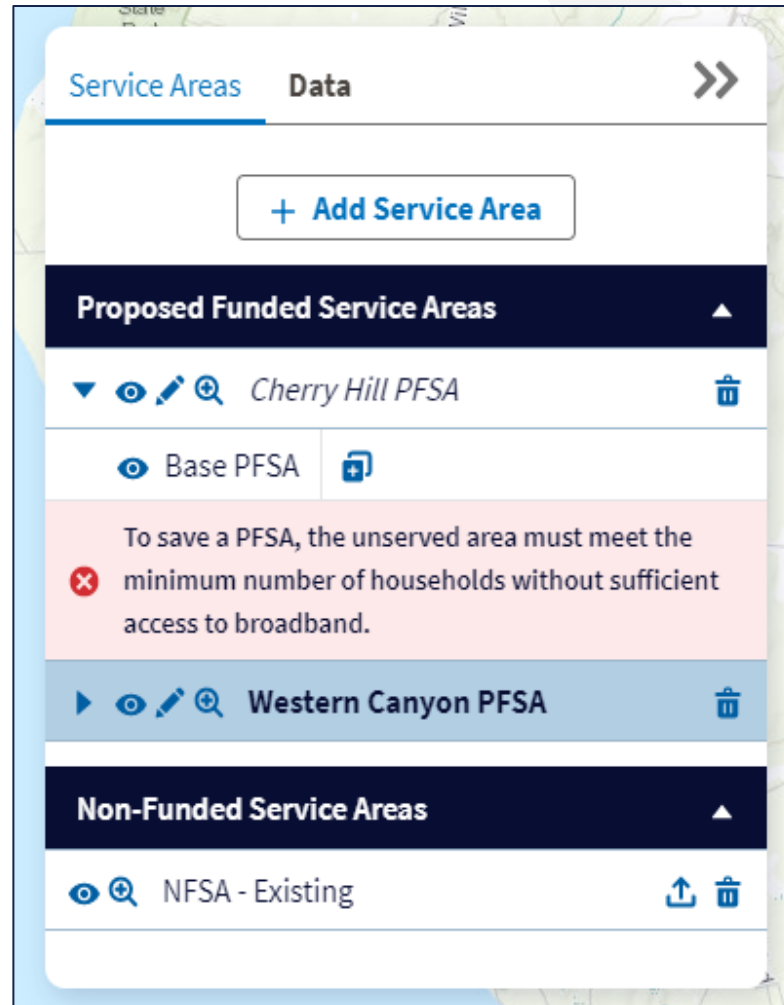
Summary Data										^
Proposed Funded Service Area Summary					Non-Funded Service Area Summary					
Census Data										
Name	Type	HH Without Access to Broadband	% HH Without Access to Broadband	Population	Square Miles	Housing Units	Households	Businesses	Congressional Districts	
Western Canyon PFSA	New	5,019	100%	11,469	2,561.22	6,085	5,019	222	AZ-01, AZ-04	
Cherry Hill PFSA	New	0	0%	1,583	7.92	572	534	13	VA-01	
Aggregated Totals				13,052	2,569.14	6,657	5,553	235	AZ-01, AZ-04, VA-01	
Demographic Data										
Race (Population Breakdown by Race)				Population						
Asian				180						
Black or African American				287						
Native American or Alaskan Native				439						
Native Hawaiian or Pacific Islander				35						
White				10,522						
Multiple Races Selected				1,137						
Other Races				451						
Ethnicity (Population Breakdown by Ethnicity)										
Hispanic or Latino				1,471						
Not Hispanic or Latino				11,581						

Warning: Ineligible Area Encroachment

- This will NOT stop you from moving forward in the application process **however** should be considered as overlap of these areas may result in an application being deemed ineligible



Error: Without Sufficient Access to Broadband



Service Area Map Linkages



Service Area Map Linkages

The PFSA(s) inform multiple sections of the applications:

- Capital Investment Workbook (CIW)
- Local Network Services Revenue (Subscriber Projections)
- Evaluation Criteria
- Construction Map and Environmental Components of Application
- Competitor Service Offering

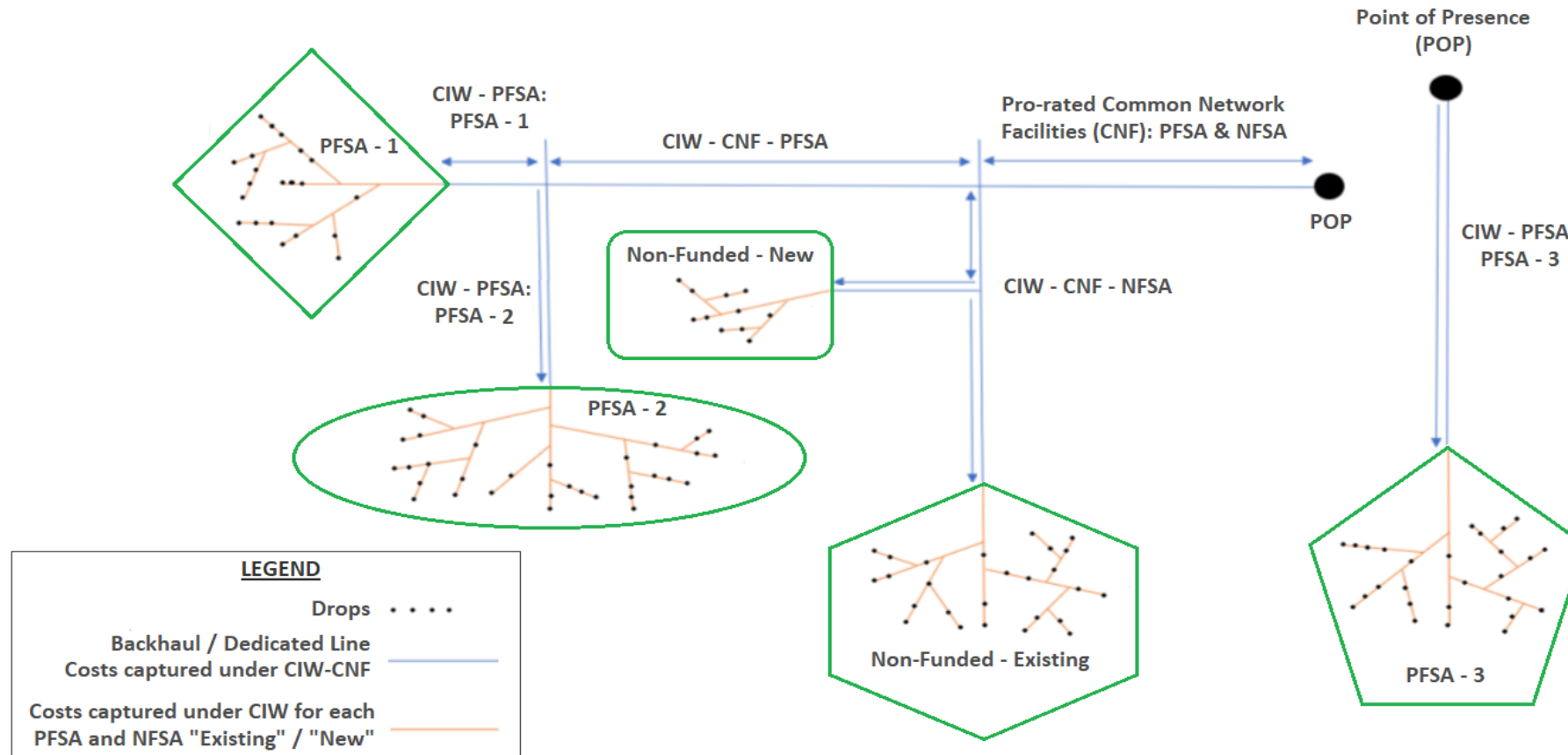
Note: Changes to the PFSA(s) and NFSAs may have downstream effects on the components of the application. It is necessary to map your service areas before going on to other parts of the application

Tips



What to Include in the Service Area Map

- Proposed Funded and Non-Funded Service Areas? **YES**
- Common Network Facility Assets such as Backhaul? **NO**



Available Resources



Available Resources

- **Register for upcoming events** <https://www.usda.gov/reconnect/events>
- **Application Guide** https://www.rd.usda.gov/files/ReConnect_Program_Application_Guide.pdf
- **ReConnect website** <https://www.usda.gov/reconnect>
 - Fact Sheets & Frequently Asked Questions
- **Contact Us** <https://www.usda.gov/reconnect/contact-us>
- **FY 2022 Funding Opportunity Announcement**
 - <https://www.federalregister.gov/documents/2022/08/04/2022-16694/rural-econnectivity-program>
- **Regulation** <https://www.govinfo.gov/content/pkg/FR-2021-02-26/pdf/2021-03443.pdf>
- **General Field Representative (GFR) & State Office**
 - <https://www.rd.usda.gov/contact-us/telecom-gfr/all>
 - <https://www.rd.usda.gov/contact-us/state-offices>





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