



Service Areas Tab Overview

USDA RUS ReConnect Program



Rural Development

Agenda

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

Service Area Mapping Tool



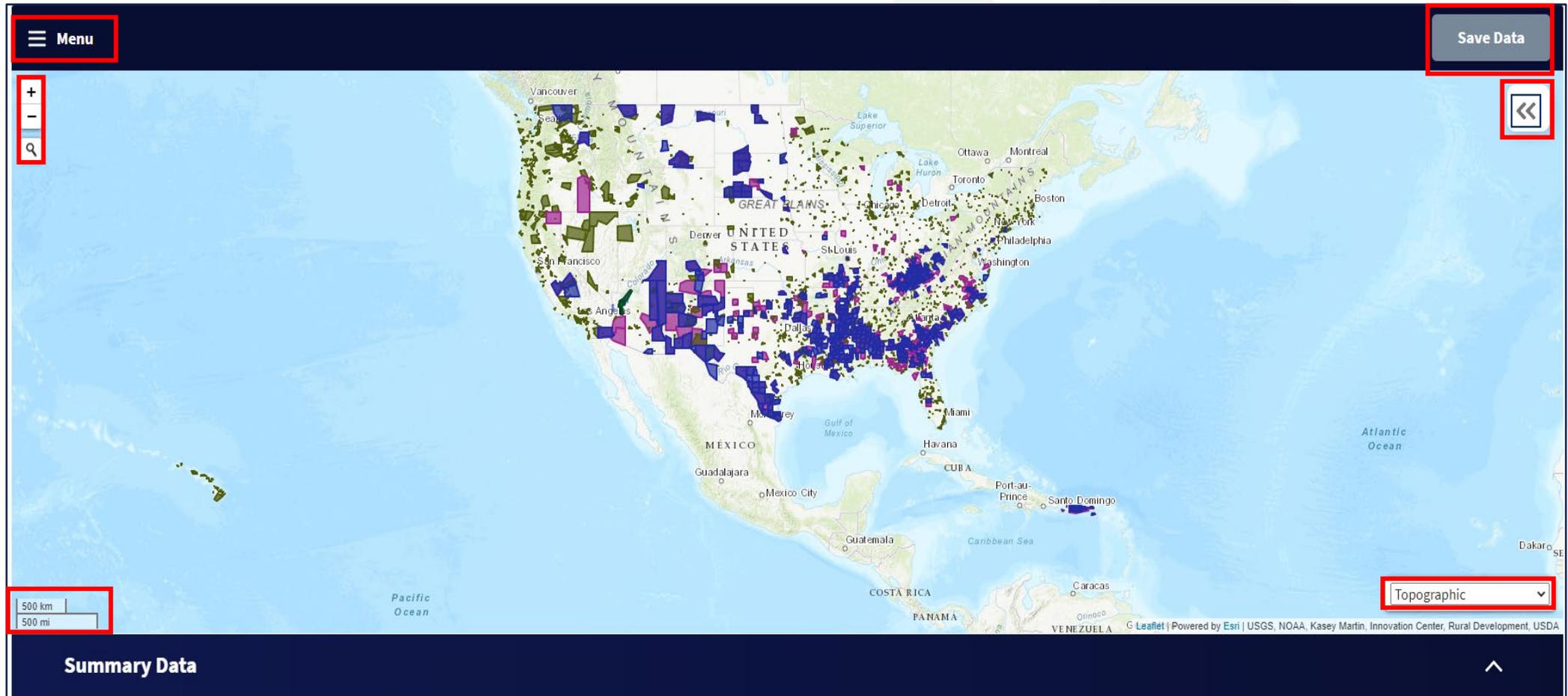
Introduction to Service Area Mapping in ReConnect Application Portal

- 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.

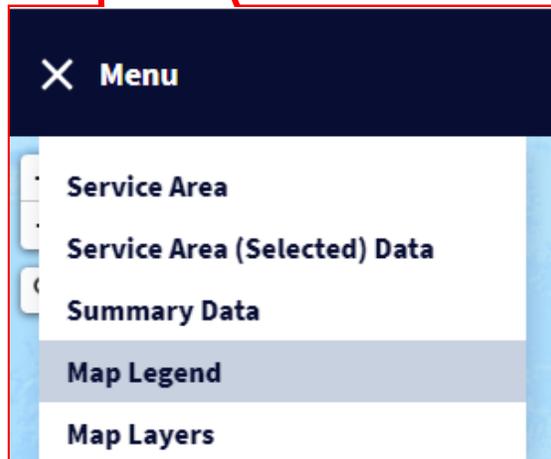
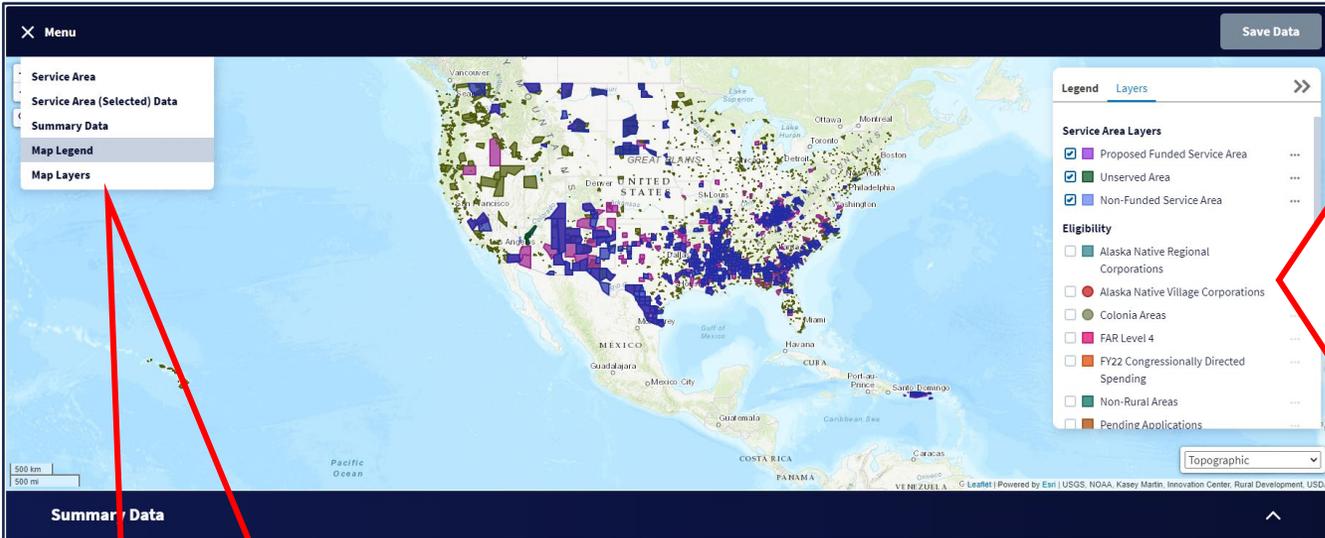
Service Area Mapping Tool

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



Legend Layers >>

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)

Adding Service Areas

The screenshot displays a web application interface for managing service areas. The main map shows North America with various colored polygons representing service areas. The interface includes a top navigation bar with a 'Menu' button (highlighted with a red box) and a 'Save Data' button. A left sidebar contains a 'Service Area' menu item (highlighted with a red box) and other options: 'Service Area (Selected) Data', 'Summary Data', 'Map Legend', and 'Map Layers'. The right sidebar features a 'Service Areas' tab (selected) and a 'Data' tab, with a '+ Add Service Area' button (highlighted with a red box) below them. Below the button, there are two sections: 'Proposed Funded Service Areas' and 'Non-Funded Service Areas', both with messages indicating that no areas have been created and instructions to click the 'Add Service Area' button. At the bottom, there is a 'Summary Data' button and a 'Topographic' map style selector. A scale bar (500 km / 500 mi) and map data attribution (Leaflet | Powered by Esri) are also visible.

Menu

Save Data

Service Area

Service Area (Selected) Data

Summary Data

Map Legend

Map Layers

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*
Select One

SERVICE AREA TYPE*
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

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

Finish **Remove Last Vertex** **Cancel**

Topographic

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

Editing a Service Area Polygon

The screenshot displays a GIS web application interface for editing a service area polygon. The main map shows a topographic view of Stafford County, Virginia, with a purple polygon representing a service area. The interface includes a menu, map controls, a 'Save Data' button, and a service area management panel on the right.

Map Interface:

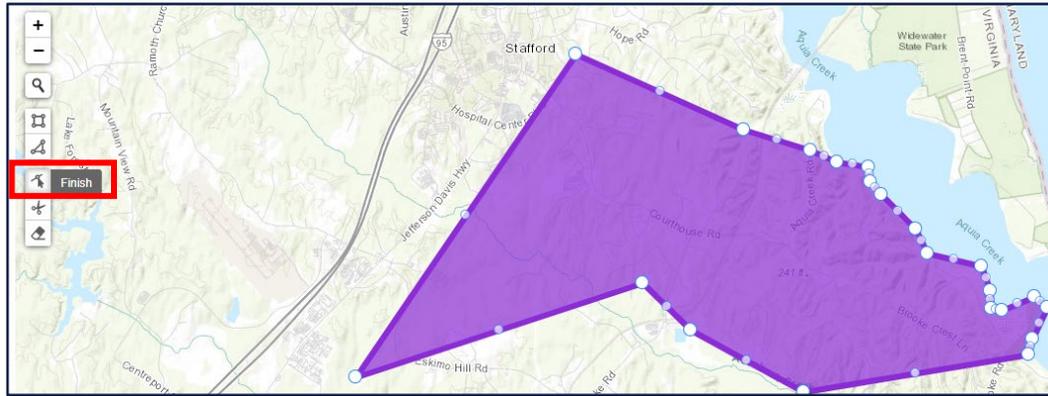
- Menu:** Located in the top left corner.
- Map Controls:** Includes zoom in (+), zoom out (-), search, and other navigation tools.
- Scale:** 2 km / 1 mi.
- Map Style:** Topographic.
- Map Labels:** Stafford, Potomac Creek, Aquia Creek, Crows Nest, Stafford State Park, Purse State Park, Caledon State Park, Stafford, Goldvein, Long Branch, Curtis Memorial Park, Potomac Run, Shenandoah River, Potomac Creek, Clifton Run, Stafford, Virginia, Maryland, Spotsylvania, Cannon Ridge.

Service Area Management Panel:

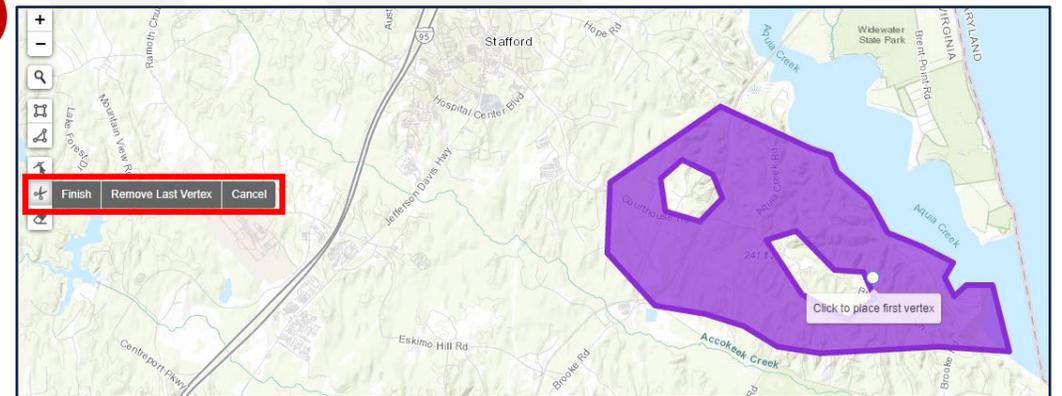
- Service Areas:** Data
- + Add Service Area**
- Proposed Funded Service Areas:**
 - Cherry Hill PFSA:** Base PFSA
 - Warning:** To save a PFSA, the unserved area must meet the minimum number of households without sufficient access to broadband.
- Non-Funded Service Areas:** No Non-Funded Service Areas have been created. Click the "Add Service Area" button to create one.

Editing a Service Area Polygon

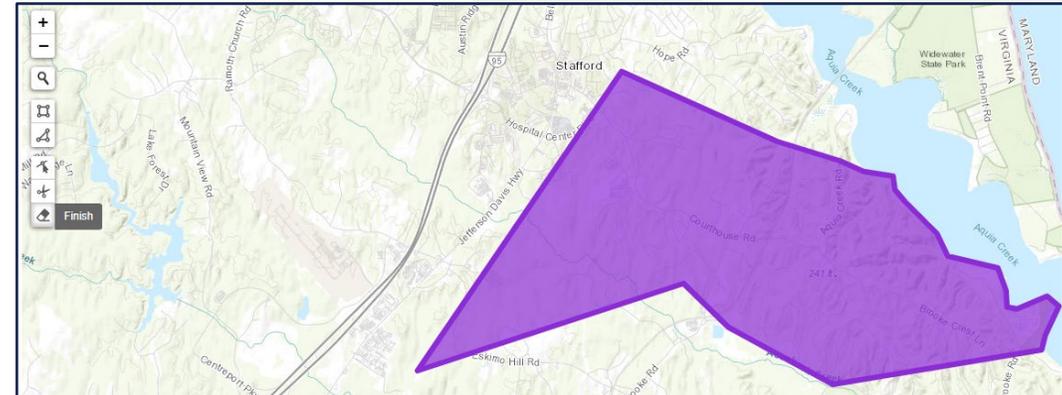
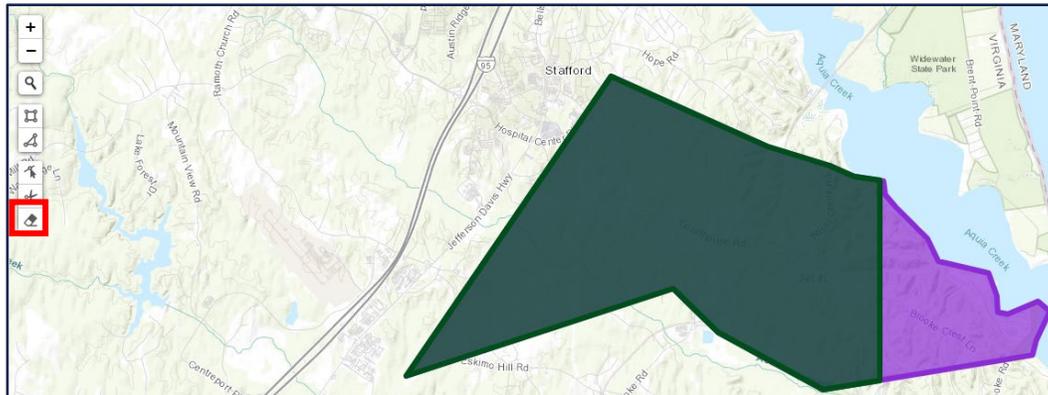
1



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.

Or drop files

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

Save Data

Map showing service areas with a highlighted 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	Businesses	Square Miles
Western Canyon PFSA	Proposed	New	Petty Wireless	222	2,561.22
	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

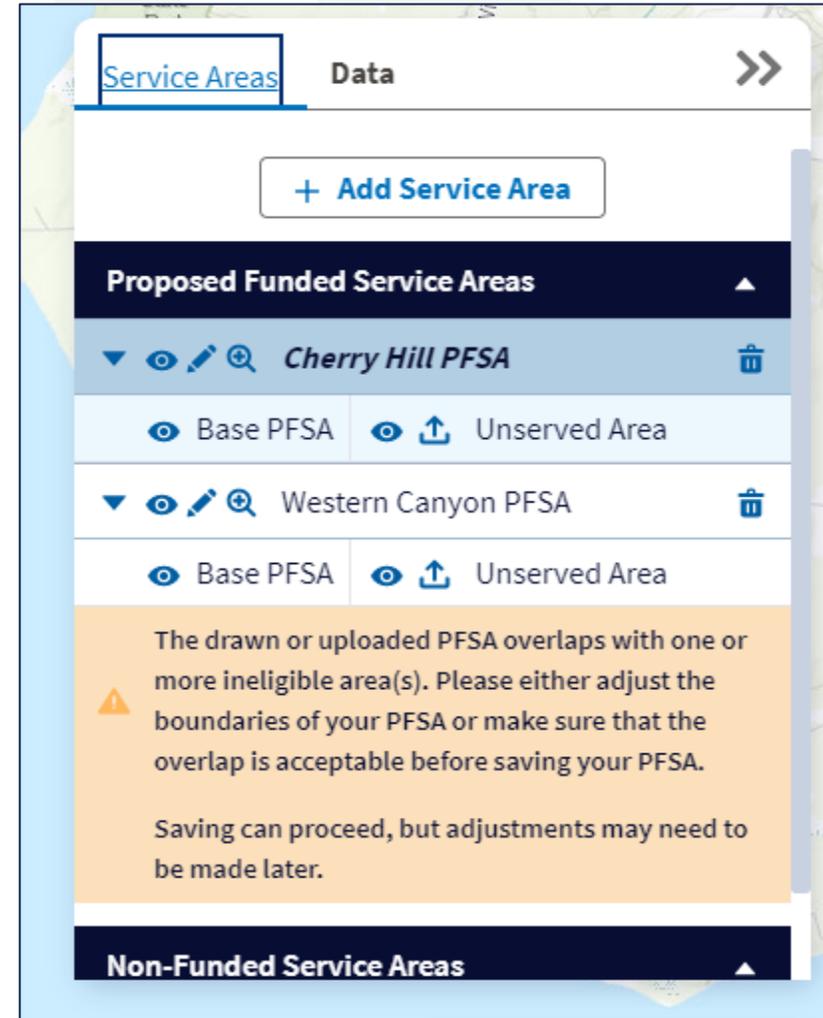
Race	Population	Ethnicity	Population
Asian	129	Hispanic or Latino	1,331
Black or African American	104	Not Hispanic or Latino	10,138
Native American or Alaskan Native	425		
Native Hawaiian or Pacific Islander	35		
White	9,371		
Multiple Races Selected	994		
Other Races	411		

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					

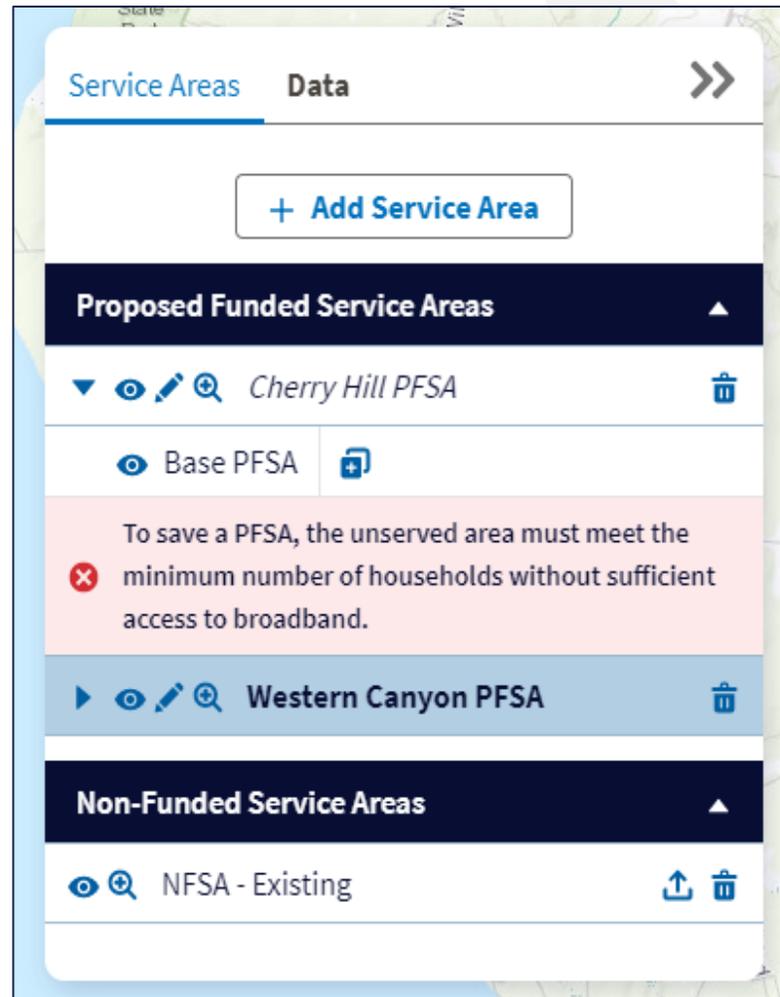
Warning: Ineligible Area Encroachment

- 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



The screenshot shows a web application interface for managing Service Areas. At the top, there are tabs for "Service Areas" and "Data". Below the tabs is a button labeled "+ Add Service Area". The main content area is divided into two sections: "Proposed Funded Service Areas" and "Non-Funded Service Areas". Under "Proposed Funded Service Areas", there are two entries: "Cherry Hill PFSA" and "Western Canyon PFSA". Each entry has a dropdown arrow, an eye icon, a pencil icon, a magnifying glass icon, and a trash icon. Below each entry are two sub-entries: "Base PFSA" and "Unserved Area". A warning message is displayed in an orange box, stating: "The drawn or uploaded PFSA overlaps with one or more ineligible area(s). Please either adjust the boundaries of your PFSA or make sure that the overlap is acceptable before saving your PFSA. Saving can proceed, but adjustments may need to be made later."

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

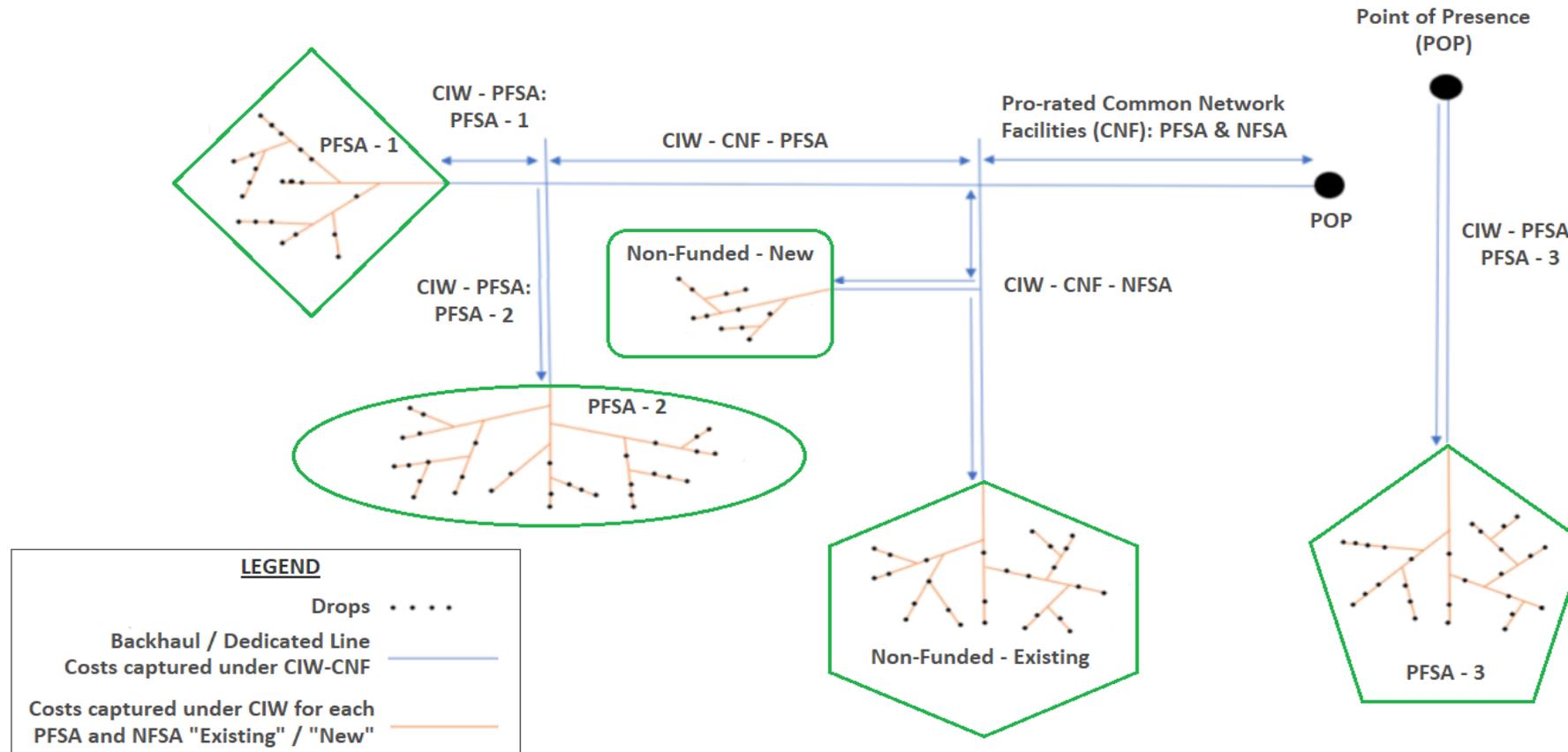
Note: Changes to the PFSA(s) and NFSAs may have downstream effects on the components of the application. It is necessary to map your service areas before going on to other parts of the application

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>





Rural Development

U.S. DEPARTMENT OF AGRICULTURE