



**BEAD Program
Broadband Map Guide**

**The Wyoming Broadband Office
(WBO)**

Version 1.0

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Introduction

This document serves as a comprehensive guide for subgrantee applicants to navigate the Wyoming Broadband Availability Map. The Broadband Availability Map is the outcome of Wyoming’s BEAD Challenge Process, and it identifies which locations within Project Area Units (PAU) are eligible for funding under the BEAD program. Each PAU includes the details of the number of served, underserved, and unserved locations, the total number of locations, what percentage of the PAU is eligible for BEAD funding, and the benchmarking reference price.

There are two maps available on the WBO website: the publicly available **Broadband Availability Map** and the **BEAD Application Map** which requires subgrantee applicants to register with the state to access. Both maps contain the BEAD eligible locations that have been vetted through the BEAD Challenge Process, so the data present in each map is identical. This guide explains the purpose of each map, outlines how to access the maps, and provides details on how to use their features and functionalities.

The currency of the map can be found on the bottom left-hand side of the map within the map description:

Map version: 1.0	Latest major version of the map
Serviceability data last updated on October 23, 2024	Last date the serviceability values were updated within the BEAD eligible locations dataset
Map last updated on October 23, 2024	Last date that map was updated to refresh data layers or test within in the map

Map descriptions

Map 1: Broadband Availability Map

The Broadband Availability Map is publicly available for subgrantee applicants and other stakeholders to explore. It is available on the [Wyoming Broadband Office website](#). This map has been built to display broadband coverage in the State of Wyoming.

The Broadband Availability Map can be accessed by navigating to the WBO BEAD page.

Map 2: Wyoming BEAD Application Map

Wyoming’s [BEAD Application Map](#) requires subgrantee applicants to register and log in to explore. It is available here on the [WBO website](#). This map has been built for subgrantee applicants to download/extract data at a PAU level to submit for applications. The data will include BEAD eligible locations as well as community anchor institutions (if applicable). Each PAU’s data will be provided within a separate data file (CSV).


Requesting access to the BEAD Application Map

1. Subgrantee applicants may request access by emailing WBO at broadbandoffice@wyo.gov
2. WBO will send LightBox a request for a new account.
3. Subgrantee applicants will be notified via email and prompted to update their password.

Accessing the Map

After the Broadband Map Access Request has been approved, navigate to the [BEAD Application Map page](#) and select the “BEAD Application Map” button.

After selecting “BEAD Application Map,” users will be directed to a log in screen.



Sign in to LightBox for Wyoming 

ArcGIS login

Keep me signed in

[Forgot username?](#) or [Forgot password?](#)

[Privacy](#)

Log in using the ISP credentials and remember to check the box that says, “Keep me signed in.”







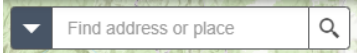
Map Navigation

The left-hand side of the screen houses a collapsible information panel that displays the map legend, a description of what can be found on the map, a breakdown of how to define certain terms used within the map such as unserved and underserved, and supplemental information that may be useful as the applicant explores the map. The top right of the map screen houses the map legend, layers list, and basemap gallery panel.

Each individual location (house, building, etc.) is designated by a location point on the map and has been coded based on the current state of internet access to that address (unserved, underserved, served). The map also includes locations that have

been funded by other federal programs (enforceable commitments) such as FCC USAC and USDA ReConnect. Each location will show its broadband service status.

Legend

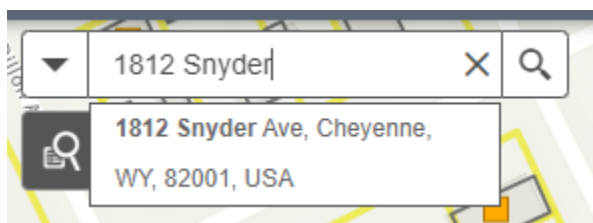
Icon	Name of Icon	Functionality
	Legend	Use the Legend to view all visible layers based on a user's zoom level in the map.
	Layer List	<p>This button enables users to control the visibility of layers, allowing them to turn layers on or off, and displays a list of all currently loaded and available data layers on the map.</p> <p>A greyed-out layer indicates a user should zoom in closer to see the data (e.g. Locations)</p> <p>Font colors for layers are indicative of whether they can be viewed at certain levels (i.e. black font for visible and grey font for not visible). For example, point layers are not visible until the city/neighborhood/location level.</p>
	Basemap Gallery	Use the Basemap Gallery to turn on satellite imagery or change the underlying basemap.
	Zoom	The Zoom functionality allows a user to go in and out of the map. A user can also use the mouse scroll wheel to do this.
	Default Extent	This will return a user to the original view of the map, in which the entire state is visible.
	My Location	This feature requests permission to use the browser's location to find and display a user's current position on the map, providing a shortcut to manually typing in the address.
	Search Bar	<p>"All" will search for all four types of geography: address or place, counties, PAUs, and tribal lands.</p> <p>A user can also select one of the four types of geography for a more refined search. After doing this, users should move the search back to "All" for future searches.</p>

How to search the map

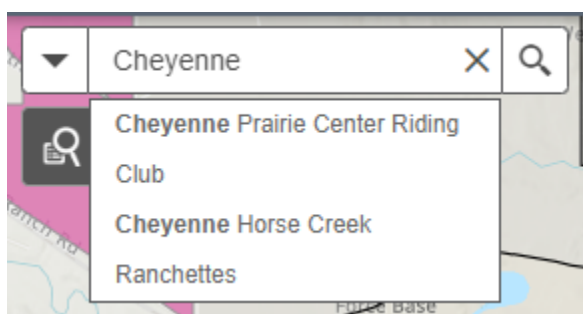
The search bar can be found on the top left side of the map. The arrow directly to the left of the search bar will allow users to search within one of the layers of the map: All, Address or Place, ARPA CPF, Census Block Groups, Counties, House Districts, Project Area Units, Senate Districts, or Tribal Lands. Once a search term is entered, the map will zoom into the specified location and a pop-up box will appear with statistics about the location in question, including number of served locations, number of underserved locations, number of unserved locations, total number of locations, and what percentage of total locations are eligible for funding.

Below, please find examples of how to search using each layer of the map.

Address: Begin to type the address and simply select the autofill option provided once visible. To exit the search for a specific address, select the “X” in the search field to clear this marker from the map.



ARPA CPF: Begin to type the Name of the Awarded Project Area and simply select the autofill option provided once visible. To exit the search for a specific address, select the “X” in the search field to clear this marker from the map.



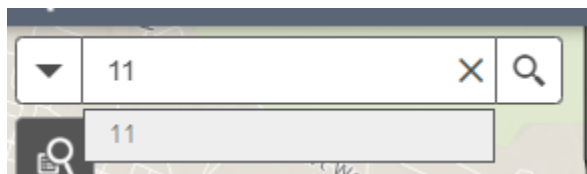
Census Block Groups: Type the ID of the Census Block Group and scroll down the drop-down list to find the county. It may be at the very bottom of the list.



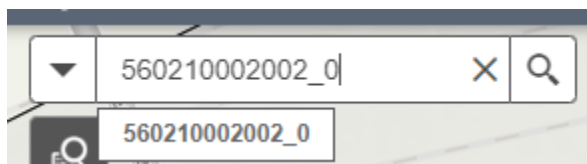
County: Type the name of the county and scroll down the drop-down list to find the county. It may be at the very bottom of the list.



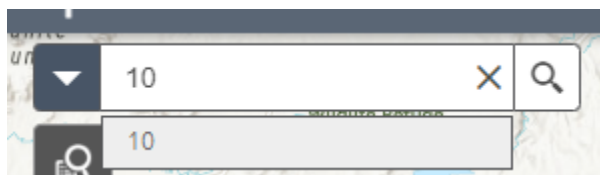
House District: Enter the House District number and select from the drop-down list.



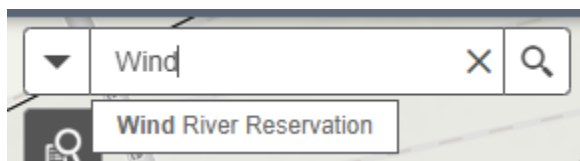
Project Area Unit (PAU): Enter the PAU identification number and select from the drop-down list.




Senate District: Enter the House District number and select from the drop-down list.



Tribal lands: Begin typing the name of the Tribal land then scroll through the drop-down list to find the tribal land.



Map layers

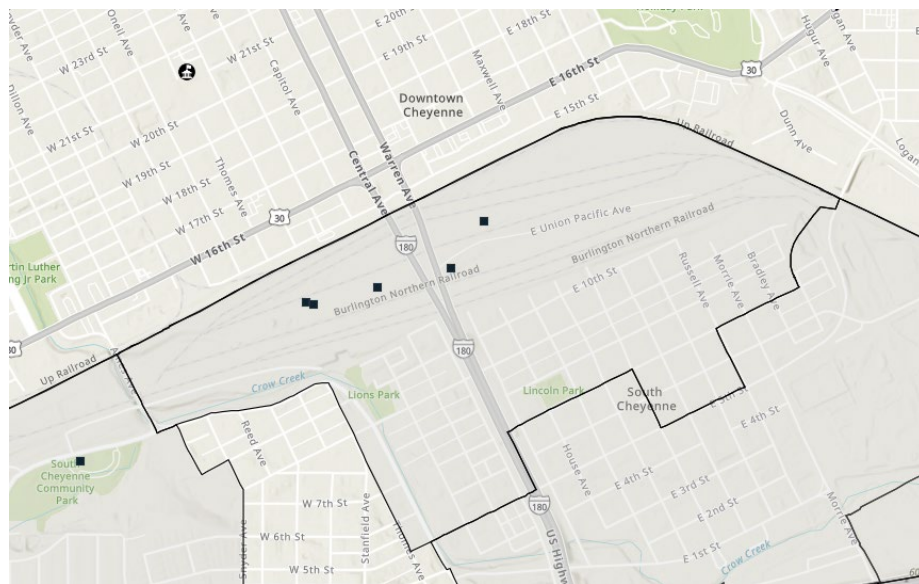
To determine which layers are active on the map at any time, click on the Layer icon  in the upper right-hand corner of the map. The user can turn layers on and off by checking or unchecking the boxes to the left of each option.

Note: By default, funding layers may be turned off. Users should turn on the funding layer by checking the box in the Layer list.

To view the BEAD eligible locations, turn off all funding layers except “Project Area Unit Locations” and “BEAD Locations.”

Configuring the map settings to view Project Area Unit (PAU) Locations

To view the PAUs, remove all layers except for these: Counties, Project Area Units, High-Cost Areas, Locations (Pop-up), Locations (Display), and Parcel Boundaries and Buildings Footprints.



Utilize the Layer List to configure the map settings to view only the PAUs. Once map settings are configured, zoom into the specific PAUs.

Alternatively, select the drop-down arrow on the search box and select “Project Area Unit Locations.” Then type or paste in the PAU identification number. The map will zoom into the PAU.

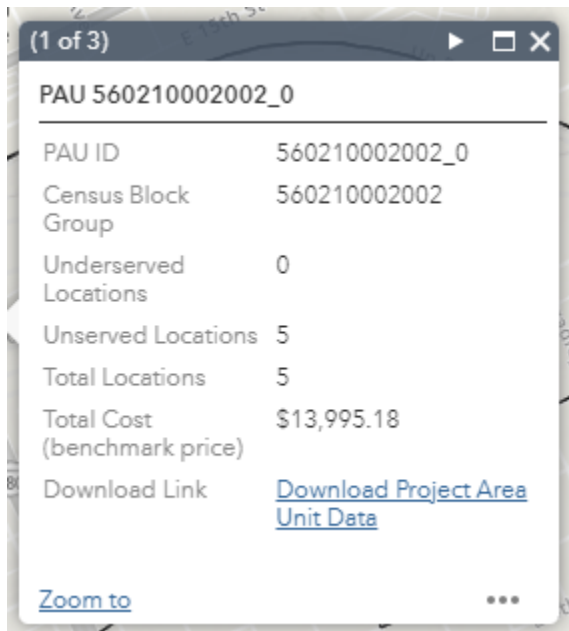
Note: If PAU data is available, the associated Census Block Group (CBG) will appear greyed out as a whole. If no PAU data is available, there will not be an associated CBG boundary for this specific area.

Functionality

How to download PAU data files from the BEAD Application Map

Credentialed users may download details of BEAD-eligible locations by PAU from the BEAD Application Map. All information downloaded will be available as a CSV file per unique PAU clusters or from the WBO website.

Locate the PAU by searching the PAU identification number in the search bar or using the Zoom tool to manually move around the map. Hover the mouse over the PAU point cluster (1 or N) until a pop-up card appears.



The pop-up card will include general information about the PAU (e.g. number of served locations, number of total locations, the percentage of total locations eligible for BEAD funding) as well as the benchmark price for the project area unit and a link to download the data required for the application process. Click on the hyperlink to redirect to a new window to download a zip file of all location-specific data for the PAU.

Where applicable, the zip file will consist of one file: PAU Eligible Locations file, named for the selected Project Area Unit. All locations, served, unserved, and underserved, within a given PAU will appear, regardless of their serviceability.

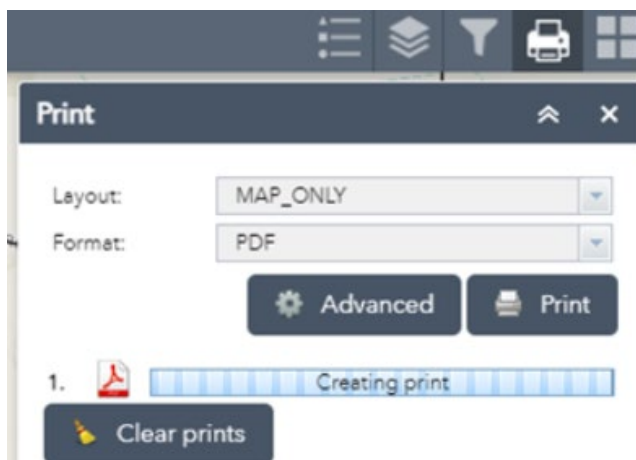
ID	LOCATION ADDRESS_CITY	STATE	ZIP	ZIP_SUFFI	UNIT_COU	BSL_FLAG	BUILDING	LAND_USE	ADDRESS	COUNTY_(H3_9	LATITUDE	LONGITUDE	FCC_REL	SERVICE_L	PAU_ID	HOUSE_DI	SENATE DI	TRIBAL_LA	CENSUS_B	LOCATION	TOTAL_COST	
102916	1.3E+09 100 W UNICHEYENNI WY	WY	82001		1	TRUE	R	4	2	56021 892685b65	41.12975	-104.814	7212023	Unserved	560210002	44	8			5.6E+11	5	#####
103310	1.3E+09 201 E UNICHEYENNI WY	WY	82001		1	TRUE	R	4	2	56021 892685b65	41.13033	-104.811	7212023	Unserved	560210002	44	8			5.6E+11	5	#####
103312	1.41E+09 418 UNIOICHEYENNI WY	WY	82001		1	TRUE	R	4	2	56021 892685b65	41.12929	-104.817	7212023	Unserved	560210002	44	8			5.6E+11	5	#####
103313	1.41E+09 401 W 1ST CHEYENNI WY	WY	82001		1	TRUE	R	4	3	56021 892685b65	41.12924	-104.816	7212023	Unserved	560210002	44	8			5.6E+11	5	#####
105134	1.3E+09 320 E UNICHEYENNI WY	WY	82001		1	TRUE	R	4	2	56021 892685b65	41.13176	-104.809	7212023	Unserved	560210002	44	8			5.6E+11	5	#####

How to download and print an image of a PAU

Click on the print icon at the top of the screen. A pop-up box will appear with both the Layout and the Format options. Select the desired Layout (A3 Landscape, A3 Portrait, etc.). Select the desired file format in the Format field (PDF, PNG, JPEG, etc.).

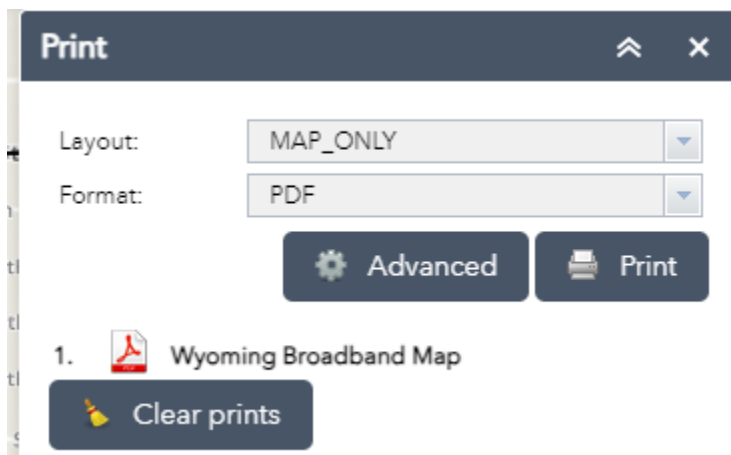


Then click the “Advanced” button. Make sure to select “Map scale” and that the scale bar unit is in “Miles.” Then click the “Print” button and a status bar will appear to indicate that it is “Creating print.”



Once complete, select the map (based on your assigned name (e.g., WY Broadband Map). A new window will open, and the downloaded file will populate.

To delete all files created to date, click on the “Clear prints” button.



Technical Assistance

For technical difficulties or other questions, please contact:

- Lightbox Customer Success at WyomingISPCoordinator@lightboxre.com
- Wyoming Broadband Office at broadbandoffice@wyo.gov