

March 5, 2024

Initial Proposal Volume II Updated Draft Overview

This document reflects the current draft of Montana's BEAD Initial Proposal Volume II. The State of Montana initially posted a first draft of this document for public comment on September 28, 2023. Since posting for public comment, the State of Montana has received extensive input from various stakeholders, including members of the Communications Advisory Commission, state agencies, the general public, NTIA, and others. Input received over the past couple of months has been incorporated into this draft, which will be subsequently submitted to the NTIA for further review and approval. This draft also reflects final changes approved by the Communications Advisory Commission during the December 2023 meeting.

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Internet for All Volume II

State of Montana

Montana Broadband Office
Montana Department of Administration



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Montana Broadband Office
BEAD Initial Proposal Volume II



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2 Volume II Initial Proposal Requirements

2.1 Objectives (Requirement 1)

2.1.1 Long-term Broadband Deployment Objectives

Text Box: Outline the long-term objectives for deploying broadband; closing the digital divide; addressing access, affordability, equity, and adoption issues; and enhancing economic growth and job creation. Eligible Entities may directly copy objectives included in their Five-Year Action Plans.

The goals and objectives included here reflect Montana’s overall aspirations for the BEAD program. Montana will partner with local governments and departments, such as the Montana Department of Public Health and Human Services, the Office of Public Instruction, the Montana Department of Labor and Industry, the Montana State Library, and many other state government agencies and departments to achieve these goals. In addition, Montana will work closely with Community Anchor Institutions, economic and workforce entities, organizations that represent covered populations, Internet Service Providers (ISPs), and others to deploy broadband in a way that furthers digital opportunity.

All numerical goals outlined below have been informed by the feedback from stakeholders and the NTIA, as well as current data available from the FCC and other relevant data sources. The State has six goals and nine objectives across the following six areas: broadband deployment, broadband access, broadband adoption, broadband affordability, digital opportunity, and economic growth and job creation.

Broadband Deployment

The State’s goal for broadband deployment is to use federal funding efficiently and effectively to develop and implement lasting broadband infrastructure for a future-connected Montana. Objectives in this category focus on the timely and cost-effective delivery of physical broadband infrastructure to locations across the state:

- (1) Build out broadband infrastructure to 154,053 locations by 2030 using BEAD allocation and other federal funding sources.

Exhibit 1: Broadband deployment goals and objectives

Objective #	KPI	Baseline	Goal
1a	Number of locations served as part of BEAD	0	154,053 ¹
1b	Cost	\$0	Full and efficient use of BEAD allocation (\$628,973,798.59)

¹ Broadband Data Collection as of December 31st, 2022, and last updated October 24th, 2023, in the NTIA’s Eligible Entity Planning Toolkit

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Broadband Access

The State's goal for broadband access is to ensure all Montana residents have access to the internet and to the necessary devices in their homes, schools, libraries, and businesses. Objectives in this category focus on building out broadband to more locations and making it possible for Montanans to access the internet more easily and reliably. The State has three objectives related to broadband access:

- (2) Eliminate the percentage of unserved locations.
- (3) Decrease the percentage of underserved locations.
- (4) Increase the percentage of Montana residents with access to internet-capable devices.

Exhibit 2: Broadband access goals and objectives

Objective #	KPI	Baseline	Goal
2	Percent of locations unserved	22% ²	0% (as required by NOFO)
3	Percent of locations underserved	10% ²	0%
4	Percent of households with internet-capable device access (e.g., laptop, smartphone, tablet)	91.8%	96.7% ³ (current highest state device access rate)

Broadband Adoption

The State aims to further broadband adoption through programs and partnerships with community stakeholders. The State has one objective related to broadband adoption:

- (5) Increase household adoption (broadband subscription) rates.

Exhibit 3: Broadband adoption goals and objectives

Objective #	KPI	Baseline	Long-term goal
5	Household adoption rate	67%	81% ⁴ (Current highest state adoption rate)

² Broadband Data Collection as of December 31st, 2022, and last updated October 24th, 2023, in the NTIA's Eligible Entity Planning Toolkit and the location fabric is based on CostQuest's June 30, 2023, update of total Montana locations.

³ U.S. Census Bureau, American Communities Survey (ACS), 2021. The state with the highest percent of households with internet-capable device access was 96.7%, which will be Montana's aspirational long-term goal.

⁴ U.S. Census Bureau, American Communities Survey (ACS), 2021. The state with the highest household adoption rate was 81%, which will be Montana's aspirational long-term goal.

Broadband Affordability

The State plans to leverage existing programs to ensure that cost is not a barrier to accessing broadband for all Montanans, irrespective of their income level. Objectives in this category ensure that more residents can access internet services, and that the internet is more affordable for them. The State has two objectives related to broadband affordability:

- (6) Increase the percentage of eligible households enrolled in the Affordable Connectivity Program (ACP).
- (7) Ensure all BEAD-funded subgrantees offer low-cost plans.

Exhibit 4: Broadband affordability goals and objectives

Objective #	KPI	Baseline	Goal
6	Percent of eligible households enrolled in ACP	27%	56% ⁵ (Current highest state enrollment rate)
7	Percent of BEAD-funded subgrantees offering low-cost plans in awarded project areas ⁶	0%	100% ⁷

Digital Opportunity

Montana's goal for digital opportunity is to reduce the digital divide among all Montana residents by increasing high-speed internet adoption among covered populations and increasing the number of served state and local incarceration facilities:

- (8) Increase household adoption rates within covered populations.⁸
 - a. Adoption rate among the Black population.
 - b. Adoption rate among the Native American population.
 - c. Adoption rate among the aging population.
 - d. Adoption rate among the veteran population.
 - e. Adoption rate among the population with disabilities.
 - f. Adoption rate among households at or below 150% of the federal poverty level.
 - g. Adoption rate among non-native English speakers.⁹

⁵ Education Superhighway based on USAC and PUMS data. The state with the highest percent of eligible households enrolled in ACP is 56%, which will be Montana's aspirational long-term goal.

⁶ \$70/month to be maximum for an affordable plan; see section 2.12

⁷ To be able to achieve BEAD funding, subgrantees must offer affordable plans through the time to be required by the NTIA at a later date.

⁸ Broadband access via cable, fiber, DSL per the U.S. Census Bureau, American Communities Survey (ACS), 2021 5-year estimates; includes DC (IPUMS USA data)

⁹ Broadband access via cable, fiber, DSL per the U.S. Census Bureau, American Communities Survey (ACS), 2021 5-year estimates; includes DC (IPUMS USA data). Households with non-native English speakers who primarily speak a language other than English at home.

- h. Adoption rate among the rural population.¹⁰
- i. Increase the percent of state and local incarceration facilities served with high-speed internet.¹¹

Exhibit 5: Digital opportunity goals and objectives

Objective #	KPI	Baseline	Goal
8a	Adoption rate among the Black population	63%	81% ¹²
8b	Adoption rate among the Native American population	53%	81%
8c	Adoption rate among the aging population	58%	81%
8d	Adoption rate among the veteran population	64%	81%
8e	Adoption rate among the population with disabilities	55%	81%
8f	Adoption rate among households ≤ 150% of the federal poverty level	49%	81%
8g	Adoption rate among non-native English speakers	56%	81%
8h	Adoption rate among the rural population	58%	81%
8i	Percent of state and local incarceration facilities served with high-speed internet access	80%	100%

Economic Growth and Job Creation

Montana's goal for economic growth and job creation is to bolster the economic competitiveness of Montana by ensuring widespread access to high-speed internet. While Montana holds that increased broadband deployment will ultimately benefit the state's economy across the board, Montana has a special interest in ensuring that businesses have the internet connectivity they need to succeed. Montana thus has one objective related to economic growth and job creation:

¹⁰ Broadband access via cable, fiber, DSL per the U.S. Census Bureau, American Communities Survey (ACS), 2021 5-year estimates; includes DC (IPUMS USA data). Compared to USDA RUCA codes; census tracts designated as 7, 8, 9 and 10 were denoted as 'rural' for baseline measurement

¹¹ Source: CostQuest TAL data as of November 15, 2022. Upgrading Entity Boundary CAI tagged locations (which includes prisons as defined by the US Census Bureau) to being served.

¹² Same goal as the overall household adoption rate referenced in Objective #5

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- (9) Increase the percentage of business locations with high-speed internet access.

Exhibit 6: Economic growth and job creation goals and objectives

Objective #	KPI	Baseline	Goal
9	Percent of business locations served with high-speed internet access	77%	100%

To ensure progress toward achieving the goals and objectives outlined above, the Montana Broadband Office has developed a tracking mechanism for each of the above KPIs (see

Exhibit 7 below). These KPIs will be updated regularly to ensure the overall program goals are being met and to help identify and address any risks that may arise. The table below identifies the data source that will be used for tracking each KPI, the frequency of updating, and who will be responsible for tracking:

Exhibit 7: Goals and objectives KPIs

Objective #	KPI	Data Source	Tracking Frequency	Entity Responsible
1a	Number of locations served as part of BEAD	ISP submissions	Every 6 months	Chief Data Officer
1b	Cost	Program data	Every month	Grant Accountant
2	Percent of locations unserved	FCC National Broadband map	Every 6 months	Chief Data Officer
3	Percent of locations underserved	FCC National Broadband map	Every 6 months	Chief Data Officer
4	Percent of households with internet-capable device access	U.S. Census data	Every 12 months	Census and Economic Information Center
5	Household adoption rate	U.S. Census data	Every 12 months	Census and Economic Information center
6	Percent of eligible households enrolled in ACP	USAC data	Every 6 months	Program Coordinator
7	Percent of BEAD-funded subgrantees offering low-cost plans in awarded project	ISP submissions	Every 6 months	Program Coordinator

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Objective #	KPI	Data Source	Tracking Frequency	Entity Responsible
	areas			
8a-h	Adoption rates among covered populations	U.S. Census data	Every 12 months	Census and Economic Information center
8i	Percent of state and local incarceration facilities served with high-speed internet access	FCC National Broadband map	Every 6 months	Chief Data Officer
9	Percent of business locations served with high-speed internet access	FCC National Broadband map	Every 6 months	Chief Data Officer

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2.2 Local, Tribal, and Regional Broadband Planning Processes (Requirement 2)

2.2.1 Local, Tribal, and Regional Broadband Support

Text Box: Identify and outline steps that the Eligible Entity will take to support local, Tribal, and regional broadband planning processes or ongoing efforts to deploy broadband or close the digital divide. In the description, include how the Eligible Entity will coordinate its own planning efforts with the broadband planning processes of local and Tribal Governments, and other local, Tribal, and regional entities. Eligible Entities may directly copy descriptions in their Five-Year Action Plans.

The MBO is not aware of formal broadband planning efforts at the local, Tribal, or regional level. However, the MBO has engaged key leaders at each of these levels throughout the BEAD planning process and will continue to do so throughout implementation. Any broadband planning efforts or efforts to close the digital divide at the local, Tribal, or regional level will be identified and well-coordinated with BEAD and Digital Opportunity program efforts due to the detailed engagement plans that the MBO has established.

The MBO has developed a comprehensive plan to inform key stakeholders including local and regional leaders, covered populations, nonprofits, CAIs, labor unions and workforce development groups, state agencies, and Tribal groups on the progress of BEAD and Digital Opportunity programs and gather input at different stages of program implementation. As part of its ongoing engagement efforts, the MBO creates tailored forums for select stakeholder groups, to ensure that their needs are being met and that their feedback is adequately elevated and addressed throughout the programs' implementation.

The MBO has identified the following as primary communication channels for information about the BEAD and Digital Opportunity programs: In-person and virtual informational and technical assistance events, ConnectMT website and listervs, social media and press releases, and community champions. The MBO anticipates regional stakeholder briefings and one (1) roadshow a year. These activities will keep key stakeholders at all levels informed on the progress of the BEAD program.

The MBO will also broadly engage with local, Tribal, and regional groups as well as potential subgrantees and awardees by developing webinars, presentations, and resources, which will provide relevant institutions with information on the two phases of BEAD funding deployment. This approach to technical assistance will raise broader awareness of the process, while helping subgrantees prepare well in advance for the Map Challenge Process, the prequalification and main application rounds.

Below is a preliminary list of potential presentations and resources for each application phase.

a. Challenge Process

Proposed Presentations:

- **Overview: What is the Challenge Process?:** General overview of the purpose and process of the map challenge. Preview the timeline and submission requirements.
- **Deep Dive: How to submit a challenge:** Walk through of challenge submission process including screenshots or live demo of the challenge intake system.
- **Question and Answer Session:** One-hour open session for stakeholders to join to ask questions about the process.
- **Rebuttal: How to submit a rebuttal:** General overview of the rebuttal process, detailed instructions on how to find a challenge, submit a rebuttal, and preview of the review process.

Proposed Resources:

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- **Challenge Process One Pager:** Factsheet including key dates and processes for the challenge process.
- **Challenge Process FAQs:** Running document of Frequently Asked Questions that is updated regularly and posted to the ConnectMT website.

b. Prequalification round

Proposed Presentations

- **Overview:** General walk through of the application process. Includes a high-level overview of requirements, discussion of timeline and what to expect throughout the application process.
- **Deep Dive:** Walk through the BEAD prequalification requirements and application system. Covers what is required to be submitted, how items will be evaluated and guidance on the application system.
- **Question and Answer:** Four one-hour question and answer webinar sessions to answer any questions a potential applicant might have regarding the prequalification process.

Proposed Resources

- **Prequalification One Pager:** Factsheet including key dates, requirements and processes for the prequalification.
- **Prequalification Requirements Checklist/Application Guide:**
- **Prequalification FAQs:** Running document of Frequently Asked Questions that is updated regularly and posted to the ConnectMT website.
- **Samples and Templates:** Templates for applicants to use when completing their applications.

c. Main Round Applications

Proposed Presentations

- **Main Round Overview:** Walk through the main round application. Remind the applicant that the main round is limited to prequalified applicants. Walk through the steps starting from when an applicant successfully prequalifies, mention they must attend a bidder's conference. Remind the listener that during the main round, the applicant is required to submit a variety of documents including updates to the ones they submitted in prequalification.
- **Financial Requirements:** Walk through presentation focusing on the financial requirements. Mention that the prequalified applicant is required to submit a variety of financial documents including but not limited to an updated set of financial documents from the prequalification process and a pro forma. Walk through the complete list of required financial documents.
- **Technical Requirements:** Walk through the technical requirements. Remind that the prequalified applicant is required to submit a variety of technical requirements including a service area map. Go through the complete list of required technical requirements.
- **Programmatic Requirements:** Walk through the programmatic requirements. Remind that the prequalified applicant is required to submit a variety of programmatic requirements including an update to the ones submitted during prequalification. Go through the complete list of required programmatic requirements.
- **Question and Answer Session:** One-hour question and answer webinar sessions to answer any questions a potential applicant might have regarding the prequalification process.

Proposed Resources

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- **Main Round One Pager:** Factsheet including key dates, requirements and processes for the main round.
- **Financial One Pager:** Factsheet focusing on the financial requirements of the main round application.
- **Technical One Pager:** Factsheet focusing on the technical requirements of the main round application.
- **Programmatic One Pager:** Factsheet focusing on the programmatic requirements of the main round application.
- **Scoring Worksheet:** Sample scoring worksheet for applicants to use in their application development.
- **Application Templates:** Templates for applicants to use when completing their applications.
- **Main Round FAQs:** Running document of Frequently Asked Questions that is updated regularly and posted to the ConnectMT website.

2.3 Local Coordination (Requirement 4)

2.3.1 Coordination

Text Box: Describe the coordination conducted, summarize the impact such coordination has on the content of the Initial Proposal, and detail ongoing coordination efforts. Set forth the plan for how the Eligible Entity will fulfil the coordination associated with its Final Proposal.

Montana has been engaging stakeholders since the launch of the BEAD program. The process began by first identifying stakeholders and then developing a tailored approach to incorporate them in the planning process. Together, these efforts yielded a robust stakeholder engagement process, which allowed the State to place key constituents at the center of its plans to increase broadband availability in Montana and narrow the digital divide.

A. Stakeholder identification

With reference to BEAD guidance as well as input from state government contacts, the MBO identified key external stakeholders and stakeholder groups to engage, including:

- **Political and governmental representatives:** state and territorial agencies, state senators and representatives, city, and county officials (e.g., commissioners, other elected officials).
- **Tribal entities:** Tribal leadership, Tribal colleges, Tribal businesses, Tribal government officials.
- **Community Anchor Institutions:** libraries, schools, healthcare centers, community colleges, other institutions of higher education, nonprofit and community-based organizations.
- **Economic and workforce actors:** labor organizations and unions, entities that carry out workforce development programs, chambers of commerce, economic development organizations.

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- **Telecommunications providers:** internet service providers.
- **Covered populations:** individuals who live in covered households, the income of which for the most recently completed year is not more than 150 percent of an amount equal to the poverty level, as determined by using criteria of poverty established by the Bureau of the Census; aging individuals; incarcerated individuals (excluding individuals incarcerated in federal facilities); veterans; individuals with disabilities; individuals with a language barrier; individuals who are members of a racial or ethnic minority group; individuals who primarily reside in a rural area.

Once the list of stakeholder groups was defined, the MBO identified specific individuals within each group, as well as any stakeholders relevant to this engagement process that did not belong to a predefined stakeholder group. This process required coordinating with public and private organizations for outreach and desk research (e.g., Google searching, cold calls, referrals) to develop a list of approximately 2,800 contacts representing the full range of stakeholders. Since Montana's efforts for the BEAD program and the Digital Opportunity Program are coordinated, this is a comprehensive list of stakeholders that applies to both efforts.

B. Engagement approach

With the launch of the BEAD NOFO, Montana conducted two initial rounds of stakeholder engagement sessions in 2022. Additional outreach has been ongoing with speaking engagements (e.g., Montana Broadband Tribal Consultation Forum, Montana Economic Developers Association Fall Conference, Montana Chamber of Commerce Annual Meeting) and in the State's monthly Communications Advisory Committee (CAC) meetings.

Initial outreach round 1, conducted September 7-14, 2022, focused on identifying challenges to internet access and digital equity. Initial outreach round 2, conducted December 5-9, 2022, focused on soliciting feedback to specific preliminary elements required by the BEAD and Digital Equity NOFOs and report templates provided by NTIA. Additional detail on each stakeholder engagement session, including dates, type of session, target audience, covered populations reached and notes from the session can be found in the attached Local Coordination Documentation Tracker. In both rounds, the MBO's approach to stakeholder engagement was guided by the following principles, outlined in the NTIA's guidance:

Full geographic coverage of the Eligible Entity

2022 in-person stakeholder engagement sessions have been held in ten cities: Billings (round 1 and round 2), Glendive, Glasgow, Kalispell, Great Falls, Helena, Butte, Missoula, Havre, and Miles City. The round 2 session in Billings was specifically for Tribal leaders and communities, organized by the Crow Tribe of Nations in coordination with the MBO. The full list of all engagement and details can be found in the attached Local Coordination Tracker. The cities for the sessions were selected to ensure diverse geographical representation across the state from both the more populated hubs as well as the rural areas. In each city, the MBO hosted a one-hour public session, as well as three, one-hour breakout sessions with specific stakeholder groups. These stakeholder engagement sessions were hosted in centrally located, easily accessible locations within each city to enable maximum participation. Forty-six virtual stakeholder sessions have also been conducted, open to individuals and organizations located anywhere in the state. The MBO will continue to ensure that geographic coverage of the state enables a range of Montanans to participate.

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Meaningful engagement and outreach to diverse stakeholder groups

Exhibit 8 indicates the stakeholder groups for which virtual and in-person engagement sessions and surveys have been conducted. The MBO will continue to prioritize outreach to diverse stakeholder groups.

Establishment, documentation, and adherence to clear procedures to ensure transparency

The in-person and virtual stakeholder engagement sessions were shaped by a discussion guide that ensured the moderator covered all relevant topics while also providing the ability to move naturally between issues as the conversation flowed. Montana also deployed a streamlined survey to households and community leaders (see **Exhibit 9**, **Exhibit 10**, **Exhibit 11**, and **Exhibit 12**). To provide transparency on sessions conducted and topics discussed, detail on each stakeholder engagement session, including dates, type of session, target audience, covered populations reached and notes from the session are available to the public in the Local Coordination Documentation Tracker posted on the [ConnectMT website](#). The MBO further ensured transparency by collecting public input through both the public comment process and the Communications Advisory Commission. Materials were posted publicly on the ConnectMT website 14 days before every Commission meeting. Input received was discussed publicly and voted on by the Commission before being incorporated into the Initial Proposal Volume II.

Outreach and engagement of unserved and underserved communities, including historically underrepresented and marginalized groups and/or communities

To direct stakeholder engagement, the MBO developed a list of more than 2,800 stakeholders who represented populations highlighted in the NTIA requirements, including unserved / underserved and covered populations, to understand their needs related to the access, availability, and use of broadband. To reach covered populations, the State also held targeted interviews with stakeholders, including Tribal leaders, the Department of Veterans Affairs, the Montana School for the Deaf and Blind, the Department of Corrections, the Department of Public Health, and Human Services: State Unit of Aging, and the Montana Rural Development State Office.

The MBO has also specifically conducted tribal outreach as part of its broadband initiatives in the past and will continue to do so in the future. The State's primary method of engagement has been through the organization of formal meetings. The State will continue tribal engagement through regular meetings which will be used to solicit general Tribal feedback on broadband deployment. All formal tribal consultation engagements will be documented with a Dear Tribal Letter, attendance list, and formal consultation summary report.

The MBO anticipates using community champions as part of their larger stakeholder engagement approach. Communications Advisory Committee members, other elected officials, and representatives from other state agencies will be discussing the BEAD and Digital Opportunity programs as part of their constituent services. To ensure consistent messaging, MBO will provide comprehensive talking points, sample presentations and resources on an ad hoc basis.

Across the events MBO has engaged individuals from unserved and underserved groups as detailed below:

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Group	Number of events
Individuals who live in covered households	75
Aging individuals	10
Incarcerated individuals	8
Veterans	6
Individuals with disabilities	6
	6
	8
	75

Use of multiple awareness and participation mechanisms and different methods to convey information and outreach

Montana engaged its residents through multiple modalities, including 11 in-person and 46 virtual sessions (**Exhibit 8**) as well as two surveys that were distributed digitally (see **Exhibit 9**, **Exhibit 10**, **Exhibit 11**, and **Exhibit 12**).

In-person and virtual sessions

The MBO hosted both in-person and virtual outreach sessions with the public and targeted stakeholders to better understand the state's challenges in providing adequate broadband service to its residents (see **Exhibit 8**). The stakeholder engagement sessions were held both in person (during the periods of September 7-14 and December 5-9, 2022) and virtually via Microsoft Teams (September through December 2022). The virtual sessions helped to ensure greater accessibility to stakeholders unable to attend a physical session. For those that indicated interest in the virtual option, the MBO coordinated one-on-one to schedule sessions over Microsoft Teams with dial-in accessibility, consolidating as many individuals into the same stakeholder meeting as possible.

Additional outreach through email and phone calls was used to connect with as many stakeholders as possible, conducting supplemental desk research and leveraging referrals given during the sessions to add to the growing list of contacts.

There were two types of sessions, including general public sessions, which sought input from any interested Montanan, and specific stakeholder group sessions, which included representatives from targeted groups such as libraries, local governments, and ISPs.

To direct the sessions, Montana developed discussion guides that covered the following topics:

- Round 1: Challenges to community internet access, technology preferences, how government funds should be used to improve internet access in the community, suggestions for state government (ISP sessions only), digital equity, feasibility for ISPs (ISP sessions only), grant applications (ISP sessions only), and providing internet service (ISP sessions only).
- Round 2: Barriers to connectivity (ISP sessions only), broadband access strategies, digital opportunity strategies, strategies to further workforce development (ISP and Tribal sessions only), strategies to address supply chain challenges (ISP sessions only), strategies to develop an equitable subgrantee process (ISP sessions only), and existing Tribal awards (Tribal sessions only).

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The conversations were structured to be flexible to give participants the ability to move naturally between topics as the conversation flowed. This approach ensured participants had the opportunity to raise topics of interest, return to issues when they had additional input, and lead the conversation into the areas of greatest importance to them.

Surveys

Two surveys, with both quantitative and qualitative questions, were designed and deployed to a broad, representative group of Montanans. For survey methodology and results, please see 2.18.2, 2.18.3, and 2.18.4.

- **Household surveys:** This survey was available to any Montanan over the age of 18 and distributed to a population representative of the State.
- **Community leader survey:** This survey was created to reach community leaders and institutions, including libraries, public health organizations, religious organizations, labor organizations and chambers of commerce.
- **Topics covered included:**
 - Availability of internet access at home and in the community
 - Type and speed of internet access at home
 - Reasons for internet use
 - Awareness of internet subsidy programs, such as ACP
 - Reasons for lack of home internet access
 - Assessment of affordable monthly price for high-speed home internet

Alternate outreach modalities

Additional outreach was conducted through email and phone calls to connect with as many stakeholders as possible. The MBO will continue to connect with these stakeholders' following submission and implementation of the BEAD Five-Year Action Plan.

Together, these various outreach methods allowed for maximum reach and accessibility to target populations, which helped the State develop a thorough understanding of the challenges to accessing broadband service.

To reach stakeholders, Montana used a number of methods to raise awareness, including:

- Flyers for the general public and stakeholder populations
- Press releases
- Social media posts for Twitter, Instagram, and Facebook
- Email messaging tailored to state agencies and stakeholder populations
- Updated state website language

To reach the general public and targeted stakeholder groups, the MBO distributed materials on engagement opportunities through a range of partner organizations including BroadbandMT, Montana Association of Counties, Montana Department of Public Health and Human Services,

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Economic Developers Association, Montana State Library, Office of Public Instruction, Montana League of Cities and Towns, Montana Chambers of Commerce, Montana Department of Commerce, Governor’s Office of Indian Affairs, Business Assistance Connection, ISPs, labor groups, nonprofits, and others. The MBO also used press channels (e.g., TV, radio, newspaper) to distribute marketing materials, including KRTV, Great Falls Tribune, Glasgow Courier, BS Central, Glasgow Chamber, KLTZ Radio, KTVQ, KPAX, The Electric, KFBB, and MMJ Montana. Finally, the MBO promoted the sessions through a network of stakeholder contacts by email, state social media pages, and the state website, as well as the state’s GovDelivery email contact list.

C. Stakeholder Outreach

The State reached a large, representative group of Montanans through its engagement process outlined above.

Exhibit 8: Stakeholders engaged through in-person and virtual sessions¹³

Stakeholder group	Number of individuals reached	Examples
Political and governmental representatives	230	State agencies and officials, city, and county officials
Economic and workforce development, small businesses, labor unions and workforce organizations	17	Department of Labor and Industry, Montana Public Service Commission, Laborers’ International Union of North America, Montana Economic Developers Association
CAIs	35	Billings Clinic, Glendive Public Library, Montana State Library, Office of Public Instruction, Montana Digital Academy
Telecommunications providers and associations	42	BroadbandMT, Nemont, Grizzly Broadband, Range Companies, Charter, ATI
Tribal entities	33	Native Inter-Tribal Health Alliance, Aaniiih Nakoda College
Covered populations	12	Department of Corrections, Veterans Navigation Network, Montana School for the Deaf and Blind
Total	174	

Exhibit 9: Stakeholders reached through the MBO household survey¹⁴

Population	Count	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
Aged 60 or older	677	34.6%	41.7%

¹³ In-person and virtual sessions conducted by the MBO

¹⁴ Survey of Montana residents conducted by the MBO Sep-Oct 2022. N=1,622

Population	Count	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
Veteran	251	12.8%	15.5%
Individual with a disability (mental or physical)	182	9.3%	11.2%
Non-native English speaker	23	1.2%	1.4%
Currently Incarcerated	0	0.0%	0.0%
Racial or Ethnic minority (such as Native American, Black, Hispanic, Asian, etc.)	126	6.4%	7.8%
None of these	656	33.5%	40.4%
Skipped/no response	41	2.1%	2.5%
TOTAL	1,956 responses (1,622 respondents)	100%	N/A

Exhibit 10: Stakeholders who live on reservations reached through the MBO household survey¹⁵

Reservation	Count	Percent
Blackfeet Tribe of the Blackfeet Reservation	7	7.9%
Chippewa Cree Tribe of the Rocky Boy's Reservation	4	4.5%
Confederated Salish and Kootenai Tribes of the Flathead Reservation	30	33.7%
Crow Tribe of the Crow Reservation	14	15.7%
Fort Belknap Tribes of the Fort Belknap Reservation	14	15.7%
Fort Peck Tribes of the Fort Peck Reservation	19	21.3%
Little Shell Chippewa Tribe	0	0.0%
Northern Cheyenne Tribe of the Northern Cheyenne Reservation	1	1.1%
TOTAL	89	100%

Exhibit 11: Stakeholders reached through the MBO community leader survey¹⁶

Community Group	Count	Percent
Adult education or literacy organization	3	3.2%
Advocacy group	0	0.0%
Chamber of commerce	6	6.4%
Education organization serving pre-kindergarten through high school students	4	4.3%
Higher education organization	4	4.3%
Internet service provider	13	13.8%
Labor organization	3	3.2%
Local government	30	31.9%
Nonprofit organization	17	18.1%

¹⁵ Survey of Montana residents conducted by the MBO Sep-Oct 2022. N=1,622

¹⁶ Survey of Montana community leaders conducted by the MBO Sep-Oct 2022. N=94

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Community Group	Count	Percent
Public health organization (including health clinics)	2	2.1%
Public library	8	8.5%
Religious or faith-based organization	0	0.0%
Tribal government	0	0.0%
Veterans' association (such as the American Legion)	0	0.0%
Agriculture	1	1.1%
Economic Development Organization	1	1.1%
State Government	2	2.1%
TOTAL	94	100%

Exhibit 12: Community groups that are located on or that serve reservations, reached through the MBO community leader survey¹⁷

Reservation	Count	Percent
Blackfeet Tribe of the Blackfeet Reservation	1	1.1%
Chippewa Cree Tribe of the Rocky Boy's Reservation	2	2.1%
Confederated Salish and Kootenai Tribes of the Flathead Reservation	4	4.3%
Crow Tribe of the Crow Reservation	0	0.0%
Fort Belknap Tribes of the Fort Belknap Reservation	2	2.1%
Fort Peck Tribes of the Fort Peck Reservation	9	9.6%
Little Shell Chippewa Tribe	0	0.0%
Northern Cheyenne Tribe of the Northern Cheyenne Reservation	2	2.1%
No response/skipped	74	78.7%
TOTAL	94	100%

In addition to the exhibits above, the MBO has been collecting self-reported internet speed test from state citizens through the ConnectMT website.¹⁸ The MBO took the initiative to create a space for Montanans to run and report speed tests that provide real-time data to the MBO which the MBO only intends to use to support its citizens and not for any other purposes, e.g., data will not be sold to third parties. Citizens may use this information to inform their decision in participating in the challenge process. The MBO intends to analyze the data to inform the State's decision-making. Data from the self-reported tests will be aggregated and included as part of Montana's Final Proposal.

Throughout the outreach process, there was a general sentiment that stakeholders were optimistic about the opportunities that will be provided by broadband expansion and efforts to close the digital divide. The State has considered which partnerships it will pursue as it implements its plans, and a number of potential partnerships—including with workforce agencies and educational institutions—are outlined in the implementation strategies in 2.8.1.

Since the identification of and engagement with stakeholders outlined above, the State has maintained its commitment to stakeholder outreach. Over the months that followed, the MBO has remained in contact with a broad set of stakeholders and will continue to engage them throughout the planning and implementation of the BEAD program, including during the subgrantee process

¹⁷ Survey of Montana community leaders conducted by the MBO Sep-Oct 2022. N=94

¹⁸ ConnectMT Speed Survey. <https://mtspeedsurvey.com/surveys/connectmt/>

and the preparation of the Final Proposal. For example, Montana plans to perform outreach and technical assistance starting in early 2024 to prepare for both the challenge process and the two-phased application round (prequalification and main round). This will be done to educate and inform prospective applicant institutions on how to submit challenges, successfully apply for the prequalification phase, and to educate and inform prequalified applicant institutions on how to successfully submit a competitive application. Additionally, Montana is likely to develop webinars and collateral messaging (emails, additional links on the ConnectMT website) that will describe the two-phased plan to support institutions to prepare their bid applications.

Virtual engagement

While the State has been keen to identify opportunities for in-person engagement, it has also utilized virtual channels, including both the ConnectMT website and email updates, to increase the frequency of outreach.

The MBO currently sends out regular email updates to over 5,000 ARPA subscribers and will establish an IIJA-specific email distribution list in the future to disseminate newsletters and updates on meetings, trainings, and resources. In addition, the ConnectMT website will continue to be regularly updated with IIJA-specific information, including FAQs, for both providers and the public.

The State will further utilize its virtual platform to broadly engage with subgrantees by developing webinars and materials, available on the ConnectMT website, which will provide relevant institutions with information on the two phases of BEAD funding deployment. This will help subgrantees prepare well in advance of the application process. Montana will also perform technical assistance in 2024 to prepare for both the prequalification and main application rounds. First, the State will work with prospective applicant institutions to educate and inform them on how to successfully apply in the prequalification phase. Next, after the prequalification round, the MBO will work to educate and inform prequalified applicants and provide technical assistance on how to successfully submit their main round applications. Additionally, the ConnectMT website may contain additional resources for consumers and other Montana stakeholders, like information on ACP, available low-cost plans in BEAD-funded project areas, and viewing the latest news from the MBO and Communications Advisory Commission. Montana may distribute additional surveys through the website or use the ConnectMT website to track BEAD objectives more broadly.

Communications Advisory Commission (CAC)

In Senate Bill 531, Montana established its Communications Advisory Commission (CAC), a government body developed to oversee the funding allocated to Montana under the Infrastructure Investment and Jobs Act (IIJA) and to provide recommendations on broadband funding deployment.¹⁹ All decisions reached on broadband funding are based on consultation with the CAC, which hosts monthly meetings open to the public to generate broad engagement.²⁰ Materials presented at these meetings must be posted online two weeks ahead of time to provide ample time for public feedback. Additionally, each CAC meeting is open to the public and includes a public comment period. During monthly meetings, the CAC regularly hears from citizens, local government leaders, and providers, among others. This is a critical channel to generate productive discussions and gather feedback from stakeholders as the State develops its Initial and Final

¹⁹ Montana Senate Bill 531, <https://leg.mt.gov/bills/2023/billpdf/SB0531.pdf>

²⁰ Ibid.

Proposals. The CAC's past IIJA Commission Meetings have taken place on June 12, July 12, August 8, September 6, October 11, and November 7, 2023. The next scheduled IIJA Commission Meeting is December 7, 2023. A sample agenda of the latest Commission Meeting can be found below.

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Exhibit 13: November 7, 2023, Communications Advisory Commission Agenda²¹

AGENDA* Tuesday, November 7th @ 10:00 AM

- | | |
|--|----------------------------------|
| 1. OPEN MEETING – 10:10 AM | Commission Chair |
| a. Call to Order and Notice of Audio / Video Recording | |
| b. Roll Call and Proxies | |
|
2. IJIA: Initial Proposal Volume 2 Approach– 10:25 AM | Misty Ann Giles, Director of DOA |
| a. Deployment subgrantee process: scoring rubric | |
| b. Workforce readiness | |
| i. Prevailing wage | |
| c. Low-cost service option | |
| d. Middle class affordability | |
|
3. PUBLIC COMMENT – 11:55 PM | Commission Chair |
|
4. MOTIONS—12:40 PM | Commission Chair |
|
5. NEXT STEPS / TIMELINES – 12:55 PM | Misty Ann Giles, Director of DOA |
|
6. ADJOURN – 1:10 PM | |

Conferences and events

The MBO has engaged Montana stakeholders, including state agencies, non-profits, and providers, by attending a wide range of conferences, panels, and events. This has allowed the State to both effectively communicate the scope and impact of BEAD-related broadband initiatives, and easily solicit relevant feedback. This feedback has been captured in the attached Local Coordination Tracker Tool in 2.3.1.1.

For example, representatives from the MBO will attend the 102nd Montana Taxpayer Association Meeting. In 2022, over 120 people registered for this event to listen to a discussion with Gov. Greg Gianforte about Montana's economic outlook and the State's tax and fiscal policies. Representatives from the MBO will speak on the status of broadband deployment at the upcoming December 2023 meeting.²²

Additionally, MBO representatives attended the annual meeting of the Montana Chamber of Commerce to provide updates on broadband in October 2023. This meeting advances the Chamber's mission to focus on four key economic pillars (entrepreneurship, workforce development, business climate, and infrastructure).²³

The MBO will also engage with the Montana Economic Developers Association (MEDA), as its representatives spoke at an annual conference focused on various facets of the State's economic

²¹ Additional CAC meeting agendas can be found here: <https://connectmt.mt.gov/Events/Archive>

²² Montana Tax Association 101st Annual Meeting, <https://www.montax.org/news.php?id=158>

²³ Montana Chamber of Commerce, Annual Membership Meeting Public Agenda, Annual Membership Meeting_Public Agenda.pdf

development. The MBO presented on the state of BEAD, statewide digital access, and tribal activism, and explained how MBO and MEDA can identify and support various regional- and state-level partners to support broadband applications. This engagement is a continuation of previous broadband-related discussions conducted at this conference by the State.²⁴

In addition to strengthening existing relationships with Montana government agencies and non-profits, the MBO will coordinate with federal agencies to reach a wide range of small businesses. To that effect, MBO representatives attended a recent “Path to Prosperity” meeting in late September 2023. “Path to Prosperity” is a regional business development series that is a joint creation of the Small Business Administration (SBA), the FDIC, and the U.S. Department of Agriculture (USDA).²⁵ The Montana-focused segment of this series shared relevant information on how non-profits and community-based organizations can overcome challenges associated with understanding federal contracts and procurements, and navigating the opportunities, barriers, and logistics of accessing financing as a small business.²⁶ The series included a dedicated broadband panel on broadband access, at which MBO representatives spoke on the state of broadband access in rural communities. Topics included the types of assistance available to communities without broadband and the processes for accessing funding for broadband assistance.

The MBO representatives spoke on a Future of Montana fireside chat to discuss broadband deployment initiatives in the state. The engagement builds on previous conversations between Push Technologies, a panel sponsor, and MBO representatives that sought to align on the challenges and priorities for both parties with broadband deployment in the state.²⁷

In August 2023, representatives from the MBO presented on the status and outlook for broadband deployment at the Annual Meeting of BroadbandMT, a telecommunications group whose members include telecommunications firms and other stakeholders that collectively employ more than 1,000 Montanans.²⁸ More than half of ARPA applicants were members of BroadbandMT, making the organization a significant player in the provider landscape.

2.3.1.1 Local Coordination Tracker Tool

Attachment: As a required attachment, submit the Local Coordination Tracker Tool to certify that the Eligible Entity has conducted coordination, including with Tribal Governments, local community organizations, unions and work organizations, and other groups.

The Local Coordination Tracker tool is attached.

²⁴ Montana Economic Developers Association, MEDA Fall 2022 Conference, <https://www.medamembers.org/event-details/meda-fall-2022-conference>

²⁵ Path to Prosperity Economic Development Series, <https://www.sba.gov/event/23490>

²⁶ FDIC, SBA, and USDA Host Path to Prosperity Regional Economic Development Series in Montana, <https://www.fdic.gov/resources/consumers/events/2023-09-26-prosperity.html>

²⁷ Push Technologies Fireside Chat, Montana Ambassadors Convening 2023 <https://www.eventbrite.com/e/montana-ambassadors-convening-2023-tickets-694412224657?aff=oddtcreator>

²⁸ About BroadbandMT, <https://www.broadbandmt.com/the-association>

2.3.2 Formal Tribal Consultation Process

Text Box: Describe the formal tribal consultation process conducted with federally recognized Tribes, to the extent that the Eligible Entity encompasses federally recognized Tribes. If the Eligible Entity does not encompass federally recognized Tribes, note “Not applicable.”

The MBO has conducted tribal outreach as part of its broadband initiatives in the past and will continue to do so in the future. The State’s primary method of engagement has been through the organization of formal meetings.

Session One: Montana Broadband Tribal Outreach

A Montana Broadband Tribal Outreach session was organized by the Director of the Governor’s Office of Indian Affairs on September 13, 2022, in Great Falls, Montana. The session included several Tribal and non- tribal broadband stakeholders. For the event, several approaches were taken to market the session including identifying approximately 2,800 contacts that encompassed all organizations including tribal invitees. Additional marketing included flyers for the public, press releases, social media posts on Twitter, Instagram and Facebook, specific email messages tailored to individuals and updated website language outlining upcoming stakeholder sessions. Discussion topics included access and technology preferences, current service providers, digital literacy and other programming, and recommendations for further outreach with tribal entities and input to the implementation process. The full discussion guide for the session is outlined below in **Exhibit 14**. The meeting agenda can be found in **Exhibit 15**. Additionally, our key findings from engagement with tribal leaders can be found in

Exhibit 16. There was no formal Dear Tribal Letter sent. A participant list can be found in the attachment 2022.09.13_Round 1 Tribal Event - Great Falls.

Exhibit 14: Discussion Guide for September 13, 2022, Outreach Session

Topic	Sub-topic
Challenges to community internet access	<ul style="list-style-type: none">○ Main challenges to getting high speed internet at home.○ Montana’s broadband map○ Existing efforts to expand internet access in the community.○ Community internet needs
Technology preferences	<ul style="list-style-type: none">○ Preferred internet technology○ Preferred provider type
How government funds should be used to improve internet access in the community	<ul style="list-style-type: none">○ The most effective use of government funds○ How to determine which locations to prioritize for fiber.○ How local communities should be involved in internet service provider applications for IIJA funds
Digital equity	<ul style="list-style-type: none">○ Challenges that prevent the community from achieving digital equity

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	<ul style="list-style-type: none"> Existing digital equity programs or resources for community members Suggestions for how to improve digital equity in Montana
--	---

Exhibit 15: Meeting Agenda for September 13, 2022, Outreach Session

Agenda Items
Introduction
What are your suggestions for improving outreach?
Challenges to getting high-speed internet, different types of technology, and opinion on government funds for the community (Barriers in your community)
Who is currently providing service and is there a preference for type of provider, whether local or national?
Community Involvement – Should community leaders be involved and how should it be measured?
Are you familiar with ACP and other affordability programs?
How do you prioritize which locations to get fiber too? Are there places within your communities that should be at the front of the line?
Are you aware of digital literacy programs in your communities? And can these programs help people get online who are not online?

Exhibit 16: Key findings from stakeholder engagement sessions with tribal leaders in Round 1, September 13, 2022

Theme	Key findings
Barriers to being online	<ul style="list-style-type: none"> Affordability—the largest, most challenging barrier Sovereignty—federal regulations can create bureaucratic barriers; providers must also navigate unfamiliar Tribal laws; incumbent ISPs have taken advantage of Tribes (lack of competition) Maintenance—require the hiring of community members to assist with infrastructure maintenance. Topography—line of sight issues Reliability—everyone shares the same fiber line, not enough capacity and speeds vary greatly
Technology preferences	<p>Providers</p> <ul style="list-style-type: none"> Preference for local providers <ul style="list-style-type: none"> Understand larger companies have more resources, but Tribes expressed desire to work better with local providers.

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	<ul style="list-style-type: none"> – Expressed frustration with lack of competition; one option in many cases. • Noted issues with co-op providers given differing interests between native and non-native members. • Suggested every Tribe should operate its own ISP. <p>Technology type</p> <ul style="list-style-type: none"> • Recognition that 100% fiber is not feasible; need satellite and wireless for additional rural coverage. • Satellite is often more affordable option, especially in conjunction with ACP
Use of government funds	<ul style="list-style-type: none"> • Priorities <ul style="list-style-type: none"> – Engage Tribal housing authorities to advertise access and increase access at anchor institutions. – Provide devices and training with access. – Provide money to ISPs that can focus on unserved populations first. • Application Involvement <ul style="list-style-type: none"> – State should employ native liaison to Tribes. – Allocate workforce development money at the front end to better serve community. – Application should describe community involvement process. – Obtain Tribal council sign-off on application
Digital Equity	<ul style="list-style-type: none"> • Equity Challenges <ul style="list-style-type: none"> – Incumbent ISPs favored by state—state should let market develop competition. • Programs <ul style="list-style-type: none"> – Few exist. <ul style="list-style-type: none"> ○ Tribal courses include technology coursework. ○ Community education courses ○ Workforce development programs suffer from lack of digital literacy. • Other Considerations <ul style="list-style-type: none"> – Tribes working to familiarize population with ACP. – Broadband maps inaccurate due to ISP misrepresentation of data – Tribal populations rely more on anchor institutions. – ISP applicants for funding should be required to hire Tribal members, especially for projects on Tribal lands; ISPs should also create technical programs to develop a skilled Tribal labor force

Session Two: Crow Tribe of Indians and Montana Department of Administration Broadband Conference

Additionally, in December 2022, the MBO and Crow Tribe of Nations leadership hosted a joint broadband conference to discuss broadband access and internet quality on Crow land.²⁹ This

²⁹ Montana Tribal Broadband Forum Draft Agenda

conference was also used to review feedback from Tribal leadership and communities on the Montana Digital Opportunity Plan and Five-Year Action Plan, and to ensure that the needs of the Crow community are fully considered.³⁰ This event was attended by a variety of Tribal stakeholders, including: Tribal leadership from the Northern Cheyenne, Crow Tribe, Fort Peck Tribes, and Tribal-owned broadband firms such as Siyeh Communications.³¹ For the event, several approaches were taken to market the session including identifying approximately 2,800 contacts that encompassed all organizations including tribal invitees. Additional marketing included flyers for the public, press releases, social media posts on Twitter, Instagram and Facebook, specific email messages tailored to individuals and updated website language outlining upcoming stakeholder sessions. The discussion guide for the session is outlined below in **Exhibit 17**. The meeting agenda can be found in **Exhibit 18**. Additionally, our key findings from engagement with tribal leaders can be found in **Exhibit 19**. The Dear Tribal Letter invitation and participant list are attached.

Exhibit 17: Discussion Guide for December 9, 2022, Outreach Session

Topic	Sub-topic
Broadband access strategies	<ul style="list-style-type: none"> ○ The drawbacks and benefits of each strategy. ○ Which strategy is the best option.
Digital opportunity strategies	<ul style="list-style-type: none"> ○ Whether each strategy will work. ○ Whether anything is missing from each strategy.
Strategies to further workforce development	<ul style="list-style-type: none"> ○ Anticipated challenges implementing this strategy. ○ Whether anything is missing from this strategy.
Existing tribal awards	<ul style="list-style-type: none"> ○ Review existing tribal awards from other broadband programs

Exhibit 18: Meeting Agenda for December 9, 2022, Outreach Session

Agenda Items
Light Breakfast (9-9:30am, 30 minutes)
Opening Plenary (9:30-10am, 30 minutes)
Break (10-10:15am, 15 minutes)
Breakout Sessions and Targeted Discussions (10:15-11:45am, 90 minutes)
Closing Remarks (11:45am-12pm, 15 minutes)

³⁰ Ibid.

³¹ Crow Tribe Broadband Conference Attendance List, Billings, December 9, 2022

Exhibit 19: Key findings from stakeholder engagement sessions with tribal leaders in Round 2, December 9, 2022

Theme	Key findings
Goals and Objectives	<p>BEAD Priority 1: Building out broadband to all unserved locations and reach as many underserved locations as possible.</p> <ul style="list-style-type: none"> Concern that tribes encouraged to join/partner with co-ops in the past will not have the equal future opportunity to become an ISP and receive grant money. Reservations struggle with right-of-way issues that have prevented co-ops from building out service in the past. <ul style="list-style-type: none"> Fixed wireless has been used to address these issues in the past. Keep in mind that right-of-way issues can delay deployment plans. Suggested that ISPs show in their application how they would get around the right-of-way challenges. Suggested continued monitoring of BEAD outcomes and deployment long-term to ensure ISPs are complying over time – the evaluation should not stop after the applications are scored and funds are delivered. <ul style="list-style-type: none"> Suggested having a plan in place to regularly check speeds and ensure standards are met. <p>BEAD Priority 2: Digital opportunity, including affordability, access to devices, and digital skills.</p> <ul style="list-style-type: none"> Priorities for access are schools, work, and telehealth services
Barriers	<ul style="list-style-type: none"> Digital divide – 95% lack access– and the current framework will not bridge this gap. Monopolies and lack of competition on reservations are the largest concerns – tribal governments have only 1 option for providers and tribal members have 0 options. <ul style="list-style-type: none"> For example, Nemont co-op is a monopoly in NE Montana Monopolies in all industries/businesses on reservations create higher costs generally, leaving less money to spend on broadband (gas, food being other priorities) <ul style="list-style-type: none"> People choose other priorities over broadband because they see it as extra – if it is truly an essential service it needs to be made realistic/affordable/reliable for impoverished populations. People will choose cellular over broadband access. Tribal communities currently have little economic value for ISPs – there is no framework to make money. ISPs are not upgrading their backhaul infrastructure – more people sharing the same level of bandwidth is not functional and there is no existing regulation to ensure that ISPs provide minimum throughput
Access strategies	<p>Strategies generally</p> <ul style="list-style-type: none"> Every strategy should prioritize tribes – historically have been left out. All strategies shown are biased towards incumbent providers, the tribes are still excluded from bringing in business because cost of service is currently 5-

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	<p>7 times more than other areas of the state and 10 times more than areas across the country (current considerations are not providing opportunity for upstream links)</p> <ul style="list-style-type: none"> Concern that the mandated “low-cost” option provided by the ISP monopoly will be inadequate speeds/service (“bare minimum”) and that faster/better options will be unaffordable. <ul style="list-style-type: none"> Suggested benchmarking these tribal areas where there are monopolies and adding price controls to stay within competitive market rates. <p>Fiber deployment</p> <ul style="list-style-type: none"> Monopolies are easily created on reservations when a private provider owns a fiber line and there is no framework in place to ensure additional competition – they can charge very high rates. Concern with deregulated fiber is that when a company builds fiber, they can charge expensive rates and prohibit other providers from serving there because it would be considered “served.” <ul style="list-style-type: none"> Suggested that ISPs granted fiber money should then lease that fiber back at a reasonable rate commensurate with its actual costs – there should be a competitive arrangement framework in place to create channel for competition (so communities/other ISPs can access that fiber) Suggested methods like telecom deregulation, infrastructure deregulation – we should not reward unregulated franchises with grant money. Suggested regulating fiber (just as copper is regulated) If ISPs receive the money, they should be required to continue to invest in the areas, maintain and upgrade their backhaul infrastructure and scale accordingly over time. <ul style="list-style-type: none"> Suggest that the state defines a backhaul ratio that ISPs need to subscribe to – monitoring this should be a requirement and incorporated into long-term state-led regulatory framework; they need to demonstrate in their application that they have anticipated investment in backhaul to provide 100/20 speeds after everything is done – making sure their speed/subscription models account for backhaul capacity. Backhaul out of Montana is very expensive. <p>Overall thoughts/suggestions</p> <ul style="list-style-type: none"> Perception that ISPs underdeliver in tribal communities (high cost for inadequate service) – service is not what is advertised and there is no regulation/plan to hold them accountable. Preference that the money goes to non-incumbent provider – need competition to drive the price down. Questioning if the state prefers co-ops over other providers.
Digital opportunity strategies	<p>Service affordability</p> <ul style="list-style-type: none"> Concern that BEAD low-cost offering of 100/20 speeds would not be sufficient to operate or grow business on reservations. Lack of current competition means that there is one low-cost offering and everything above that is very expensive. ACP adoption

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	<ul style="list-style-type: none"> – General lack of awareness around the ACP – Suggestions for ACP marketing/adoption include using Facebook pages, postcards, flyers, banners, casinos, post offices, door-to-door outreach tailored to tribal populations – the best people to get the word out would be ISPs and it should be a requirement to do so. – Suggestion to advertise through services/programs already in use by low-income folks, including SNAP and TANF – Suggestion that ACP be expanded to cover cellular data usage, as there is more cellular data usage than broadband usage for tribes. • Suggested cost of broadband should be free, or \$30-40/month. Some people would still struggle to pay \$20/month; it depends on all other costs of living. <p>Digital skills</p> <ul style="list-style-type: none"> • Northern Cheyenne would like to receive skills training. <p>Other concerns</p> <ul style="list-style-type: none"> • Kids are falling behind in school without adequate bandwidth; exposed during COVID when kids were doing school from home and the bandwidth could not handle all the devices
State broadband map	<ul style="list-style-type: none"> • Need to account for “rural” being different than “frontier” in Montana. • Map should better reflect tribal lands. • For existing county level community plans, many of these counties overlap with tribal lands and so tribal community plans need to be integrated into these larger plans as well
Existing tribal awards	<ul style="list-style-type: none"> • Middle Mile grants – Crow Tribe attempted to put a middle mile grant in and ran out of money before they got to Crow Agency • Easier for incumbents to apply for ARPA money; tribes not historically involved in telecommunications are usually left out. <ul style="list-style-type: none"> – Suggested finding a way to get more involvement from tribal-owned ISPs. • Concern that NTIA could lack the capacity to stay on track with designated IIJA timeline, as some tribes have been waiting >1 year for funds from NTIA. • Suggested that NTIA, Department of Commerce, Department of the Interior open up conversations with the BIA – streamlining the 1-year application process for right-of-way
Other topics	<ul style="list-style-type: none"> • Value of cellular - folks are trying to get a cell tower between Busby and Lame Deer IIJA timeline, as some tribes have been waiting >1 year for funds from NTIA.

Session Three: Montana Tribal Broadband Consultation

Lastly, the State held the Montana Tribal Broadband Consultation Forum from September 27-28, 2023, which was used to solicit general Tribal feedback on broadband deployment. This event focused on three key areas: education, information, and engagement. The Director of Administration and the Agency’s Chief Data Officer presented a detailed overview of the status of Montana in the BEAD process and, mapping. Also invited were partners who could speak to funding, buildout, and establishing a broadband program. For example, one panel included representatives from Tribes who were recipients of Tribal Broadband Connectivity Program funding. They discussed their progress in the program as an opportunity to share information with

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other Montana Tribes. Feedback received from the consultations included tribes not being considered for funding or that any consultation would to just “check a box”, that tribes would be “left behind”, a process for tribal resolution regarding providers’ applications that include areas of the reservation, consistency, workforce development, compliance, application scoring, seasonal build, implications of long-term contracts, etc. During our discussions, all of these were addressed and acknowledged. The September 27, 2023, agenda can be found below in **Exhibit 20** and the September 28, 2023, agenda can be found below in **Exhibit 21**. The Dear Tribal Leader Letter of invitation can be found in our attachments, as well as the agenda, discussion guide and outcome notes.

Exhibit 20: Meeting Agenda for September 27, 2023, Outreach Session

Agenda Items
Welcome, Pastry Breakfast and Prayer (7:45-8:30am, 45 minutes)
NTIA Update/Q&A (8:30-10am, 90 minutes)
Break (10-10:30am, 30 minutes)
BEAD Update (10:30am-12pm, 90 minutes)
Lunch (12-1pm, 60 minutes)
Tribal Consultation Forum (1-5pm, 4 hours)
Networking Reception (5:30-7:30pm, 2 hours)

Exhibit 21: Meeting Agenda for September 28, 2023, Outreach Session

Agenda Items
Welcome, Networking Breakfast and Prayer (8:30-9:30am, 60 minutes)
1:1 Tribal/State Consultation Sessions (8:30-11am, 2.5 hours)
Millennium: Broadband Funding Issues (9:30-10:30am, 60 minutes)
Break (10:30-11am, 30 minutes)
Tribal Ready: Broadband Funding, Data, and Tools to Maximize Opportunities for Your Tribe (11am-12pm, 60 minutes)
Lunch (12-1pm, 60 minutes)

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Broadband Workforce Panel (1-2pm, 60 minutes)
Tribal Broadband Connectivity Program Recipients: How It's Going (2-3pm, 60 minutes)
Break (3-3:30pm, 30 minutes)
Calix: Connecting Tribal Communities (3:30-4:30pm, 60 minutes)
Closing (4:30-4:45pm, 15 minutes)

The MBO also completed a survey that received 1,622 complete responses from Montana stakeholders in 2022, 6% of which replied from a tribal reservation. Please see Section 2.18 for the full results of the survey responses.

2.3.2.1 Formal Tribal Consultation Process Attachment

Optional Attachment: As a required attachment only if the Eligible Entity encompasses federally recognized Tribes, provide evidence that a formal tribal consultation process was conducted, such as meeting agendas and participation lists.

The State has provided relevant documentation in the above Section 2.3.2 as well as attached a ZIP file with associated documentation for all 3 tribal engagement sessions.

2.4 Deployment Subgrantee Selection (Requirement 8)

Deployment Projects Subgrantee Selection Process & Scoring Approach

2.4.1 Fair, Open, and Competitive Process

Text Box: Describe a detailed plan to award subgrants to last-mile broadband deployment projects through a fair, open, and competitive process.

Overview

The MBO strived to design a subgrantee selection process that is intrinsically fair, open, and competitive through implementing a number of key transparency measures throughout the process design. These measures included **transparent oversight and public engagement** through collaborating closely with the Communications Advisory Commission (CAC), designing an **objective scoring process**, and **alignment to state and federal law** such as the BEAD NOFO and recently passed Montana Senate Bill 531. These measures are further detailed in the sub-sections below.

A. Transparent oversight and public engagement

The Communications Advisory Commission (CAC) is an advisory body created to support the Montana Department of Administration with oversight of the BEAD program. The establishment and involvement of the CAC have been integral in designing a fair, open, and competitive subgrantee award process. The CAC was created by Senate Bill 531, which was passed by the 68th Montana State Legislature, to design and implement the State's BEAD program.³² The commission consists of nine members, including six legislators from Montana's Senate and House of Representatives, the Governor's Director of the Office of Budget and Program Planning, the Governor's Chief Economic Development Officer, and the Governor's Director of Administration. Since June 2023, the CAC has held monthly meetings, which are open to the public and include public comment opportunities, to guide the State's BEAD and Digital Opportunity efforts. Fourteen days ahead of each convening, the materials to be discussed—which are compiled in PowerPoint presentations as well as supplemental PDFs or Excel documents—are posted on the ConnectMT website to provide the public and the CAC members with an opportunity for review and consideration.³³ The critical and central role played by the nine-member commission distributes decision-making power in an inclusive and democratic manner, safeguarding against bias. Further, the public nature of the CAC meetings yielded an open process that gave a broad range of stakeholders the opportunity to engage in the design of the BEAD subgrantee process.

In addition, the entire subgrantee application will be made available for public comment ahead of the subgrantee selection process to provide potential applicants and the public at large with an opportunity to comment. Any questions or clarifications can be addressed by the MBO during that time. Additionally, this early exposure to the application and all of its components will give potential applicants the opportunity to better understand the subgrantee process so that they can participate in a fair and meaningful way.

³² Montana Senate Bill 531, https://leg.mt.gov/bills/2023/SBo599/SBo531_1.pdf

³³ ConnectMT Resources, <https://connectmt.mt.gov/IJA/Resources>

In the interest of fostering transparency, the MBO has used both the CAC and the ConnectMT website to share materials and updates, as well as to provide public forums for comment and discussion. The MBO has strived to create a more transparent process than other states through reposting plans for public comment after changes were made through the CAC and posting underlying data and any requisite materials (e.g., Microsoft PowerPoint slides) that outlined Montana decisions throughout the development of the Five-Year Action Plan and Initial Proposal. These avenues will continue to be used throughout the development of the subgrantee process and the actual subgrantee application period. This will ensure that potential subgrantees are given adequate notice and enable broad participation in the program. Montana plans to perform outreach and technical assistance starting in early 2024 to prepare for both the challenge process and the two-phased application round (prequalification and main round). This will be done to educate and inform prospective applicant institutions on how to submit challenges, successfully apply for the prequalification phase, and to educate and inform prequalified applicant institutions on how to successfully submit a competitive application. Additionally, Montana may develop webinars and collateral messaging (emails, additional links on the ConnectMT website) that will describe the two-phased plan to support institutions to prepare their bid applications.

B. Objective scoring process

The MBO thoughtfully constructed an application and scoring rubric designed to encourage widespread participation by providers of all kinds. To the greatest extent possible, each scoring criterion has been based on straightforward and quantitative measures that serve as objective metrics by which subgrantees will be selected.

Montana Senate Bill 531 (SB531) outlined a number of scoring criteria, which aligned with and expanded upon BEAD guidance to reflect the priorities of Montanans.³⁴ For example, SB531 echoed the importance that BEAD guidance places on minimizing BEAD outlay by stating that scoring should consider “the extent to which government funding support is necessary to deploy broadband service infrastructure in the proposed project area.” It also incorporated new criteria, for example, “the number of households, businesses, farms, ranches, and community anchor institutions served.” Additionally, the MBO plans to take a thoughtful approach for benchmarking the BEAD allocation as referenced in section 2.4.2.

Scoring criteria was published for review and approval by the CAC and was discussed publicly for months. Additionally, the scoring criteria was presented at BroadbandMT’s annual meeting.

To further minimize conflicts of interest and award subgrants in an open, fair, and competitive manner, the MBO will utilize two third-party firms, free of any conflicts of interest with prospective subgrantees, to score the applications. The third-party will provide equal opportunity for all potential subgrantee applicants to receive technical assistance and provide open webinars to the public on how to successfully build and submit prequalification and main round applications. Scoring for each application by the third-party provider will be clear and concise. All process steps taken by the third-party provider will be made available on the ConnectMT website for knowledge to be available to all potential subgrantee applicants or other stakeholders.

³⁴ Montana Senate Bill 531, https://leg.mt.gov/bills/2023/SB0599/SB0531_1.pdf

C. Alignment to state and federal law

The Montana Code Annotated 2023 (MCA) is a cumulative compilation of the Montana State Constitution and all state laws. After bills are passed into law, they are incorporated into the MCA.³⁵ The MCA includes provisions to safeguard against favoritism and bias: 18-1-111 mandates “impartiality to be shown in letting contracts,” noting that the Department of Administration “may not show any partiality or favoritism not provided for by law in making awards or contracts.”³⁶ Further, Section 18-4-141 of the Montana Code Annotated 2023 prohibits collusion, noting that, “Collusion or secret agreements between vendors for the purpose of securing any advantage to the vendors as against the state in the awarding of contracts are prohibited. The state may declare the contract void if the department finds sufficient evidence after a contract has been let that the contract was obtained by a vendor or vendors by reason of collusive or secret agreement among the vendors to the disadvantage of the state.”³⁷

Broadly, state law necessitates due process in all governmental actions, which guarantees that the State’s decisions are made in a non-arbitrary manner. Further, 49-3-206 of the Montana Code Annotated 2023, which addresses the distribution of governmental funds, notes that, “Race, color, religion, creed, political ideas, sex, age, marital status, physical or mental disability, or national origin may not be considered as limiting factors with regard to applicants’ qualifications for benefits authorized by law in state or locally administered programs involving the distribution of funds; nor may state agencies provide grants, loans, or other financial assistance to public agencies, private institutions, or organizations which engage in discriminatory practices.”³⁸

As a component to creating a plan to competitively award subgrants, the State of Montana also understands and will adhere to the regulations set forth in the accountability procedures mandated by the BEAD NOFO. The procedures are outlined in 2.16.12.

A broader and more detailed overview of the subgrantee process—including the design choices intended to foster a fair, open, and competitive process—can be found in 2.4.2.

2.4.2 Prioritization and Scoring Process

Text Box: Describe how the prioritization and scoring process will be conducted and is consistent with the BEAD NOFO requirements on pages 42 – 46.

³⁵ Montana State Statutes, Montana State Legislature, <https://leg.mt.gov/statute/#:~:text=After%20a%20bill%20is%20signed,updated%20after%20each%20legislative%20session.>

³⁶ 18-1-111, Montana Code Annotated 2023, https://leg.mt.gov/bills/mca/title_0180/chapter_0010/part_0010/section_0110/0180-0010-0010-0110.html

³⁷ 18-4-141, Montana Code Annotated 2023, https://leg.mt.gov/bills/mca/title_0180/chapter_0040/part_0010/section_0410/0180-0040-0010-0410.html

³⁸ 49-3-206, Montana Code Annotated 2021, https://leg.mt.gov/bills/mca/title_0490/chapter_0030/part_0020/section_0060/0490-0030-0020-0060.html

Overview

Through implementation of the transparency measures noted above, the MBO designed a robust and transparent process for prioritizing and scoring all subgrantee project applications. This process outlines how potential subgrantee applicants will submit bids to deploy reliable broadband service to eligible Broadband Serviceable Locations and Community Anchor Institutions (if funding allows) across Montana in an effort to reach universal service. This process includes several components, including the application rounds, benchmarking, scoring, bidding scenarios, and overlapping project areas.

A. Application rounds

i. *Prequalification round*

The first step in the subgrantee process will consist of a prequalification round, which the MBO plans to launch in early 2024. The prequalification round will last for 30 days, and all providers who intend to submit subgrantee applications during the main round will be required to participate.

During the prequalification round, applicants will submit materials related to the following capabilities, the requirements for which are documented in various subsections of this Initial Proposal Volume II:

- Financial capability: 2.4.11 (a, c)
- Managerial capability: 2.4.12 (a, b)
- Technical capability: 2.4.13 (a)
- Compliance with applicable law: 2.4.14 (a, b)
- Operational capability: 2.4.15 (b, c, d, e)
- Information on ownership: 2.4.16 (a)
- Information on other public funding: 2.4.17 (a)
- EHP and BABA compliance: 2.4.5
- Labor standards and protection: 2.7.1 (a, ai, aii, aiii), 2.7.1 (b, bi1, bi2)
- Certification of compliance with BEAD requirements—Cybersecurity): 2.16.4 (1, 2, 3, 4)
- Certification of compliance with BEAD requirements—Supply chain risk management: 2.16.4 (1, 2, 3, 4)

Additional details regarding the materials required during the prequalification round, as well as the manner in which the MBO will evaluate those materials, can be found in the respective subsections below.

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Holding the prequalification round before beginning the main subgrantee application period will ease the administrative burden on applicants, as well as the State of Montana, giving all parties more time to compile and review the materials and streamlining the entire process.

As necessary, the MBO will communicate with applicants to clarify outstanding questions and request revisions or additional materials. Following the close of the prequalification period, the MBO will contact applicants to share results, confirming eligibility to participate in the main round.

Successfully passing the prequalification round does not guarantee an award or full qualification in the main round of the subgrantee process. For example, if a provider meets prequalification requirements for certain regions or technologies in Montana, but their main round application outlines a scale or technology that they are not qualified to deploy, main round applications from this potential subgrantee applicant may be rejected.

The prequalification round items were presented to the CAC, discussed publicly in an open forum and approved by the committee for use in the Montana BEAD subgrantee process.

ii. Main round

Potential subgrantees who successfully pass the prequalification round will be permitted to participate in the main round of the subgrantee process.

During the main round, the materials that were not required for submission during prequalification must be submitted, including the following materials:

- Financial capability: 2.4.11 (a, d)
- Technical capability: 2.4.13 (a, b)
- Compliance with applicable law: 2.4.14 (b)
- Operational capability: 2.4.15 (a)
- Information on other public funding: 2.4.17 (b)
- Workforce readiness: 2.8.2 (a, b, c, d, e; a, b, bi, bii)
- Details related to primary and secondary criteria as well as additional prioritization factors.

For more detail regarding the required materials and evaluation approach for the main round, please refer to the respective subsections. As a reminder, there are materials needed related to some capabilities (e.g., financial capabilities) in the main round that are different than what is needed in the prequalification round. The differences are detailed in their respective sections below.

To approach the process holistically, maximize competition, and give the State the most complete view of its service options, priority and non-priority bids will be accepted in tandem in the single main round. A priority bid is for a 'priority broadband project' designed to (1) "provide broadband service that meets speed, latency, reliability, consistency in quality of service, and related criteria as the Assistant Secretary shall determine" and (2) "ensure that the network

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built by the project can easily scale speeds over time to... meet the evolving connectivity needs of households and businesses” and “support the deployment of 5G, successor wireless technologies, and other advanced services.”³⁹ These ‘priority broadband projects’ are those that use end-to-end fiber-optic architecture. A non-priority bid is for any project that does not use end-to-end fiber-optic architecture. Each application will be reviewed and scored per project area. In accordance with BEAD guidance to maximize the use of fiber, priority bids will be evaluated first for every project area.

The main round items were presented to the CAC, discussed publicly in an open forum and approved by the committee for use in the Montana BEAD subgrantee process.

B. Benchmarking

As articulated in detail in 2.4.6, the State will allow providers to build their desired project areas using foundational units, which will consist of census block groups (CBGs), and potentially in some cases, subsections of CBGs (e.g., in case of particularly large CBGs that MBO decides to break up into more manageable subcomponents).

CQA is the official contractor that provides location data to the FCC. That location data was used to produce the FCC’s Broadband Serviceable Location (BSL) Fabric, “the data set of all residential and business locations (or structures) in the U.S. where fixed broadband internet access service is or can be installed.”⁴⁰ In addition to possessing extensive data related to BSLs and their respective broadband speeds, CQA has developed a proprietary cost model that projects the deployment costs based on factors including location, take rate, type of technology, and whether the buildout is greenfield (new build) or brownfield (an extension of existing infrastructure).

Before the main round opens, the State will set a reference funding benchmark for each CBG, which will be informed by the CostQuest Associates (CQA) cost model as provided to states by NTIA’s Eligible Entity Toolkit as a starting point. The MBO will consider the CostQuest estimates for both capital expenditures and estimated BEAD subsidy required for greenfield and brownfield deployment of fiber and fixed wireless. Additionally, the MBO may consider other data, e.g., data from previous broadband deployment funding opportunities, to validate and refine the benchmarks. The sum of the benchmarks will be constrained to be within the state’s BEAD allocation of \$628,973,798.59 and will consider both end-to-end fiber-optic architecture and alternative technologies based on current CostQuest modeling that suggests Montana’s allocation is not expected to be sufficient to support end-to-end fiber to the home (FTTH) to all eligible locations in the state. Proper budgeting will be critical to achieving universal coverage. In setting Montana’s benchmarks equal to the State’s BEAD allocation, the MBO intends to provide subgrantee applicants a realistic perspective of what portion of the subsidy they could hope to receive from the State if awarded a BEAD subgrant. The MBO reserves the right to make additional adjustments as needed before launch of the subgrantee process to reflect its assessment of how best to achieve MBO and NTIA goals within Montana’s BEAD budget allocation via the NTIA waiver process. The MBO will ensure any adjustments conform with NTIA guidance or policy. This

³⁹ From page 42 of BEAD NOFO

⁴⁰ “What is the Broadband Serviceable Location Fabric?”, CQA, <https://www.costquest.com/broadband-serviceable-location-fabric/>

approach will be administered with the support of at least one neutral third-party who will support the benchmarking, scoring, and awarding of potential subgrantee applications.

For the sake of transparency and to ensure that applicants understand the criteria against which they will be evaluated, the benchmark for each CBG will be made available to the public in advance of the main round of the subgrantee process. The MBO anticipates releasing benchmarks pending approval of final locations by the NTIA following the challenge process, and before main round application submissions.

The State will finalize its approach to setting the benchmark over the coming months, as it will need to take into account the exact number of un- and underserved locations to be reached through its BEAD allocation. The BSLs eligible for BEAD funding will likely change before the main round begins as a result of the deduplication and challenge processes.

C. Scoring

The MBO sought to design a scoring rubric and process that would accomplish the following key objectives:

- Align to the requirements outlined by NTIA in the BEAD NOFO.
- Incorporate criteria to reflect the priorities of the State of Montana.
- Encourage participation by as many providers as possible.
- Ensure a fair process through use of quantitative measures.
- Achieve the BEAD and state goal of reaching universal coverage.

The MBO solicited feedback from a wide range of stakeholders in designing a scoring process and rubric that would achieve the above objectives. The preliminary scoring process and rubric was presented during the Communications Advisory Commission meetings on August 8, September 6, October 11, and November 7 to collect feedback from legislators, industry partners, potential subgrantees, and the general public. Materials for CAC meetings are posted publicly two weeks in advance of every meeting. The MBO was also invited to present at the BroadbandMT Annual Meeting, during which the preliminary scoring process and rubric were discussed at length with the attendees.

i. Scoring rubric

After soliciting a broad range of public input on the scoring rubric and process, the MBO collaborated closely with the CAC to finalize the preliminary rubric. Following the September CAC meeting, the MBO reached out to the CAC members directly for input in order to finalize the draft scoring rubric in alignment with State priorities. CAC members shared written feedback and justifications regarding the criteria that were most important to them. This feedback was critical to ensure that the scoring rubric designed by the MBO reflected the broader priorities of the State of Montana and its residents.

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In addition to stakeholder feedback, the MBO also had to take into account both state law and federal mandates per the BEAD NOFO. NTIA mandates that 75% of the possible points be awarded to the primary criteria (i.e., per location/project BEAD grant request, affordability, and fair labor practices). The remaining 25% may be awarded to the secondary criteria (e.g., speed to deployment and, in the case of non-priority projects, speed of network and other technical capabilities) as well as any additional criteria adopted by the State.

In accordance with the provisions of the BEAD NOFO, the State of Montana elected to enumerate additional criteria, outlined in Senate Bill 531, including:

- *“Whether the proposed project area serves unserved or underserved areas, with unserved areas receiving greater weight;”*
- *“The number of households, businesses, farms, ranches, and community anchor institutions served;”*
- *“The length of time the provider has been providing broadband service in the state;”*
- *“Broadband service providers who have broadband service infrastructure already deployed in the project area;” and*
- *“High-cost areas must be considered for services to the extent terrestrial service is economically viable.”⁴¹*

Taking into account the BEAD requirements, state law as per Senate Bill 531, and input from a broad range of stakeholders, the MBO devised two scoring rubrics, one for priority broadband projects and one for non-priority broadband projects. Both rubrics are provided as a separate attachment as per 2.4.2.1.

For each of the primary and secondary scoring criteria, the MBO developed a methodology to score every application objectively and quantitatively. Wherever possible, a sliding scale was implemented to provide opportunities for applicants to be awarded partial points for every category. This methodology is further detailed below.

ii. *Scoring process*

Primary criteria (priority projects):

Minimal BEAD program outlay—per project BEAD grant request: Maximum of 40 points possible

- Subgrantee applicants will provide the list of CBGs and the grant request amount for each project area they are applying for. If a subgrantee chooses to submit multiple applications, each for a different project area composed of one or more CBGs, then for each application, the provider should note the CBGs that comprise the project area and the grant request for each project area. Each application will be scored and evaluated separately.
- The MBO will calculate the reference funding benchmark for each project area by summing up the benchmarks for each CBG included in an individual project area. The benchmark for

⁴¹ Montana Senate Bill 531, https://leg.mt.gov/bills/2023/SB0599/SB0531_1.pdf

each CBG will be based on the CostQuest Associates cost model provided by NTIA as a starting point. As noted above, the reference benchmark for each CBG will be posted publicly as part of the application materials.

- Points will be awarded to applicants based on the percentage their requested grant funding amount is below or above the benchmark for a given project area. Specifically, points will be calculated as follows: $40 - (20 * (\text{grant request amount} / \text{benchmark}))$, with a minimum of zero points possible and a maximum of 40 points possible.
- For example, assume the benchmark for a particular project area is \$100. If the grant request amount is \$150, then the applicant would receive 10 points: $40 - (20 * (150/100)) = 10$. If the grant request amount is \$50, then the applicant would receive 30 points: $40 - (20 * (50/100)) = 30$.
- *Note that per NTIA guidance, absent a waiver such as in high-cost areas, the subgrantee's proposed match must cover no less than 25 percent of the project cost.*

Affordability—Lowest price for 1/1 Gbps service commitment: Maximum of 20 points possible

- Subgrantee applicants who commit to offering 1/1 Gbps service to the customers in BEAD project areas at the same rates they offer in their existing markets will earn 20 points.
- If applicants do not currently offer 1/1 Gbps service, they may make forward-looking commitments to offer the same rates for 1/1 Gbps plans across all locations to earn 20 points.
- Subgrantee applicants who do not make one of these commitments will earn 0 points.
- Applicants who fail to deliver on their pricing commitments will be subject to clawback provisions as outlined in Section 2.16.2: Subgrantee Accountability Procedures.

Fair labor practices: Maximum of 15 points possible

- Subgrantee applicants will provide details of their past compliance with federal fair labor laws, according to the requirements outlined in 2.7.1. Subgrantee applicants will have the opportunity to earn points for making forward-looking commitments to offering Montana prevailing wages to their BEAD project workforce.
- Points will be awarded to applicants based on both their past record of compliance and commitment to offer prevailing wages. Applicants who meet all requirements for past compliance with federal fair labor laws will receive 13 points, while applicants with 1 past violation will receive 6 points, and applicants with more than 1 past violation will receive 0 points. Applicants who commit to offering prevailing wages (per Davis-Bacon) to their BEAD project workforce will receive an additional 2 points. Additionally, applicants who do not have a record of compliance with federal labor and compliance laws (e.g., a new market entrant) may achieve the full 13 points by making forward-looking commitments to abide by all state and federal fair labor laws, and an additional 2 points by committing to offer prevailing wages (per Davis-Bacon) to their BEAD project workforce.
- Applicants who fail to deliver on their forward-looking federal fair labor law commitments will be subject to clawback provisions as outlined in Section 2.16.2: Subgrantee

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Accountability Procedures.

Primary criteria (non-priority projects):

Minimal BEAD program outlay—per project BEAD grant request: Maximum of 40 points possible

- Subgrantee applicants will provide the list of CBGs and the grant request amount for each project area they are applying for. If a subgrantee chooses to submit multiple applications, each for a different project area composed of one or more CBGs, then for each application, the provider should note the CBGs that comprise the project area and the grant request for each project area. Each application will be scored and evaluated separately.
- The MBO will calculate the reference funding benchmark for each project area by summing up the benchmarks for each CBG included in an individual project area. The benchmark for each CBG will be based on the CostQuest Associates cost model provided by NTIA as a starting point. As noted above, the reference benchmark for each CBG will be posted publicly as part of the application materials.
- Points will be awarded to applicants based on the percentage their requested grant funding amount is below or above the benchmark for a given project area. Specifically, points will be calculated as follows: $40 - (20 * (\text{grant request amount} / \text{benchmark}))$, with a minimum of zero points possible and a maximum of 40 points possible.
- For example, assume the benchmark for a particular project area is \$100. If the grant request amount is \$150, then the applicant would receive 10 points: $40 - (20 * (150/100)) = 10$. If the grant request amount is \$50, then the applicant would receive 30 points: $40 - (20 * (50/100)) = 30$.
- *Note that per NTIA guidance, absent a waiver such as in high-cost areas, the subgrantee's proposed match must cover no less than 25 percent of the project cost.*

Affordability—Lowest price for 100/20 Mbps service commitment: Maximum of 20 points possible

- Subgrantee applicants who commit to offering 100/20 Mbps service to the customers in BEAD project areas at the same rates they offer in their existing markets will earn 20 points.
- If applicants do not currently offer 100/20 Mbps service, they may make forward-looking commitments to offer the same rates for 100/20 Mbps plans across all locations to earn 20 points.
- Subgrantee applicants who do not make one of these commitments will earn 0 points.
- Applicants who fail to deliver on their pricing commitments will be subject to clawback provisions as outlined in Section 2.16.2: Subgrantee Accountability Procedures.

Fair labor practices: Maximum of 15 points possible

- Subgrantee applicants will provide details of their past compliance with federal fair labor laws, according to the requirements outlined in 2.7.1. Subgrantee applicants will have the opportunity to earn points for making forward-looking commitments to offering Montana prevailing wages to their BEAD project workforce.

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- Points will be awarded to applicants based on both their past record of compliance and commitment to offer prevailing wages. Applicants who meet all requirements for past compliance with federal fair labor laws will receive 13 points, while applicants with 1 past violation will receive 6 points, and applicants with more than 1 past violation will receive 0 points. Applicants who commit to offering prevailing wages (per Davis-Bacon) to their BEAD project workforce will receive an additional 2 points. Additionally, applicants who do not have a record of compliance with federal labor and compliance laws (e.g., a new market entrant) may achieve the full 13 points by making forward-looking commitments to abide by all state and federal fair labor laws, and an additional 2 points by committing to offer prevailing wages (per Davis-Bacon) to their BEAD project workforce.
- Applicants who fail to deliver on their forward-looking federal fair labor law commitments will be subject to clawback provisions as outlined in Section 2.16.2: Subgrantee Accountability Procedures.

Secondary criteria (priority projects):

Speed to deployment: Maximum of 1 point possible

- Subgrantee applicants will provide the timeframe in which they are making a binding commitment to complete deployment of their BEAD-funded broadband project. Completion of a BEAD-funded broadband project means that for all locations within a given project area, construction is completed, and a customer could receive service within 10 days upon request.
- If an applicant commits to completing all of their BEAD-funded deployment in less than 4 years (i.e., 3 years or less), that applicant would receive 1 point. If an applicant does not commit to completing all of their BEAD-funded deployment in less than 4 years (i.e., 3 years or less), that applicant would receive 0 points.
- Applicants who fail to deliver on their deployment commitments will be subject to clawback provisions as outlined in Section 2.16.2: Subgrantee Accountability Procedures.

Unserved areas: Maximum of 14 points possible

- When the MBO releases application materials for the subgrantee process, the list of un- and underserved locations within each CBG will also be published. Subgrantee applicants will create project areas comprised of one or more CBGs. Since subgrantees must bid on all un- and underserved locations in a CBG, the MBO will have the list of un- and underserved locations that each subgrantee applicant is committing to provide with broadband service. The MBO believes that by encouraging bids in CBGs with a high percentage of unserved locations will encourage coverage of all un- and underserved locations as many underserved locations will be more conveniently served through deployment to unserved locations.
- Points will be awarded to applicants based on the percentage of unserved locations in their proposed project area out of the total broadband serviceable locations in their proposed project area. Specifically, points will be calculated as follows: 1 point will be awarded for every 2% of unserved locations in the project area, up to the maximum threshold of 28% or more. Any project area that has over 28% of unserved locations will receive the maximum 14 points.

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- For example, if a project area contains 21% unserved locations, then the applicant would receive 10 points. If the project area contains 40% unserved locations, then the applicant would receive 14 points.

Existing infrastructure: Maximum of 4 points possible

- To receive points for existing infrastructure, subgrantee applicants will provide a shapefile that shows their existing infrastructure in relation to their proposed network design for BEAD funded infrastructure. Qualifying infrastructure must be existing assets that could be leveraged as a part of the fiber deployment to either increase speed or cost of deployment.
- Points will be awarded based on the proposed network design's proximity to the existing service area. Specifically, points will be calculated based on the existing infrastructure's distance to the proposed network design as indicated in **Exhibit 22**.

Exhibit 22: Priority project existing infrastructure scoring rubric

Proximity to proposed network design	Points
< 1 mile	4
1 – 5 miles	3
5 – 10 miles	2
10 – 15 miles	1
> 15 miles	0

Length of service in Montana: Maximum of 4 points possible

- Subgrantee applicants will provide the length of time they have been providing broadband service in the state, not including legacy companies.
- Points will be awarded to applicants based on the length of time they have been providing broadband service in Montana. Specifically, points will be calculated as follows: 1 point will be awarded for every 10 years that a subgrantee applicant has been providing broadband service in Montana, up to the maximum of 4 points total.
- For example, if a subgrantee applicant has been providing service in Montana for 20 years, that applicant would receive 2 points. If a subgrantee applicant has been providing service in Montana for 40 years, that applicant would receive 4 points.

High-cost areas: Maximum of 1 point possible

- When the MBO releases application materials for the subgrantee process, it will include the CBGs eligible for funding with the corresponding set of un- and underserved locations. Furthermore, the MBO will also designate which CBGs are classified as high-cost CBGs based on the definition of high-cost areas as determined by NTIA as part of the BEAD

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allocation process.⁴²

- 1 point will be awarded to an applicant if their project area proposal includes at least 1 high-cost CBG.

Number of locations served: Maximum of 1 point possible

- As mentioned above, subgrantee applicants will bid on project areas that represent one or more CBGs consisting of a defined set of un- and underserved Broadband Serviceable Locations (BSLs). In addition to the BSLs, the MBO will also publish the list of eligible Community Anchor Institutions (CAIs) within each CBG. Subgrantee applicants will specify in their applications which CAIs they propose to deploy broadband service to.
- Points will be awarded to applicants based on the total number of locations (BSLs and eligible CAIs) in their proposed project area. Once all applications are received, the MBO will calculate the average number of locations (BSLs and eligible CAIs) proposed to be served across all project areas. Specifically, points will be calculated as follows: 1 point will be awarded if an applicant's proposed number of locations (BSLs and eligible CAIs) for a particular project area exceeds the average number of locations (BSLs and eligible CAIs) across all project areas. No points will be awarded if the proposed number of locations (BSLs and eligible CAIs) for a particular project area is less than the average number of locations (BSLs and eligible CAIs) across all project areas.
- For example, if the average number of locations (BSLs and eligible CAIs) across all project areas is 5,000 and the number of locations (BSLs and eligible CAIs) proposed for a particular project area is 6,000, the project area would receive 1 point. If the number of locations (BSLs and eligible CAIs) proposed for a particular project area is 4,000, the project area would receive 0 points.

Secondary criteria (non-priority projects):

Speed to deployment: Maximum of 1 point possible

- Subgrantee applicants will provide the timeframe in which they are making a binding commitment to complete deployment of their BEAD-funded broadband project. Completion of a BEAD-funded broadband project means that for all locations within a given project area, construction is completed, and a customer could receive service within 10 days upon request.
- If an applicant commits to completing all of their BEAD-funded deployment in less than 4 years (i.e., 3 years or less), that applicant would receive 1 point. If an applicant does not commit to completing all of their BEAD-funded deployment in less than 4 years (i.e., 3 years or less), that applicant would receive 0 points.
- Applicants who fail to deliver on their deployment commitments will be subject to clawback provisions as outlined in Section 2.16.2: Subgrantee Accountability Procedures.

Speed of network and other technical capabilities: Maximum of 1 point possible

⁴² BEAD Allocation Methodology. Internet for All. <https://www.internet4all.gov/program/broadband-equity-access-and-deployment-bead-program/bead-allocation-methodology>

- Subgrantee applicants will provide both the maximum advertised speed they are committing to offer for a proposed project area, as well as the network design and proposed technologies to be used. A qualified engineer will review the speed and network design to ensure the proposed technology can achieve the specified speeds.
- Points will be awarded for projects that exceed the minimum standard required to reach served status (100 Mbps download / 20 Mbps upload). Specifically, points will be calculated as follows: If a subgrantee applicant commits to and can reasonably deliver (based on the network design) speeds of at least 250 Mbps download / 50 Mbps upload, the applicant will receive 1 point for that particular project area.

Unserved areas: Maximum of 14 points possible

- When the MBO releases application materials for the subgrantee process, the list of un- and underserved locations within each CBG will also be published. Subgrantee applicants will create project areas comprised of one or more CBGs. Since subgrantees must bid on all un- and underserved locations in a CBG, the MBO will have the list of un- and underserved locations that each subgrantee applicant is committing to provide with broadband service.
- Points will be awarded to applicants based on the percentage of unserved locations in their proposed project area out of the total broadband serviceable locations in their proposed project area. Specifically, points will be calculated as follows: 1 point will be awarded for every 2% of unserved locations in the project area, up the maximum threshold of 28% or more. Any project area that has over 28% of unserved locations will receive the maximum 14 points.
- For example, if a project area contains 21% unserved locations, then the applicant would receive 10 points. If the project area contains 40% unserved locations, then the applicant would receive 14 points.

Existing infrastructure: Maximum of 3 points possible

- To receive points for existing infrastructure, subgrantee applicants will provide a shapefile that shows their existing infrastructure in relation to their proposed network design for BEAD funded infrastructure. Qualifying infrastructure must be existing assets that could be leveraged as a part of the non-priority deployment. The qualifying infrastructure must either increase speed or cost of deployment of the proposed technology.

Points will be awarded based on the proposed network design's proximity to the existing service area. Specifically, points will be calculated based on the existing infrastructure's distance to the proposed network design as indicated in **Exhibit 23**.

Exhibit 23: Non-priority project existing infrastructure scoring rubric

Proximity to proposed network design	Points
< 1 mile	3
1 – 10 miles	2

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10 – 15 miles	1
> 15 miles	0

Length of service in Montana: Maximum of 4 points possible

- Subgrantee applicants will provide the length of time they have been providing broadband service in the state, not including broadband service provided by any legacy companies.
- Points will be awarded to applicants based on the length of time they have been providing broadband service in Montana. Specifically, points will be calculated as follows: 1 point will be awarded for every 10 years that a subgrantee applicant has been providing broadband service in Montana, up to the maximum of 4 points total.
- For example, if a subgrantee applicant has been providing service in Montana for 20 years, that applicant would receive 2 points. If a subgrantee applicant has been providing service in Montana for 40 years, that applicant would receive 4 points.

High-cost areas: Maximum of 1 point possible

- When the MBO releases application materials for the subgrantee process, it will include the CBGs eligible for funding with the corresponding set of un- and underserved locations. Furthermore, the MBO will also designate which CBGs are classified as high-cost CBGs based on the definition of high-cost areas as determined by NTIA as part of the BEAD allocation process.⁴³
- 1 point will be awarded to an applicant if their project area proposal includes at least 1 high-cost CBG.

Number of locations served: Maximum of 1 point possible

- As mentioned above, subgrantee applicants will bid on project areas that represent one or more CBGs consisting of a defined set of un- and underserved Broadband Serviceable Locations (BSLs). In addition to the BSLs, the MBO will also publish the list of eligible Community Anchor Institutions (CAIs) within each CBG. Subgrantee applicants will specify in their applications which CAIs they propose to deploy broadband service to.
- Points will be awarded to applicants based on the total number of locations (BSLs and eligible CAIs) in their proposed project area. Once all applications are received, the MBO will calculate the average number of locations (BSLs and eligible CAIs) proposed to be served across all project areas. Specifically, points will be calculated as follows: 1 point will be awarded if an applicant's proposed number of locations (BSLs and eligible CAIs) for a particular project area exceeds the average number of locations (BSLs and eligible CAIs) across all project areas. No points will be awarded if the proposed number of locations (BSLs and eligible CAIs) for a particular project area is less than the average number of locations (BSLs and eligible CAIs) across all project areas.
- For example, if the average number of locations (BSLs and eligible CAIs) across all project

⁴³ BEAD Allocation Methodology. Internet for All. <https://www.internet4all.gov/program/broadband-equity-access-and-deployment-bead-program/bead-allocation-methodology>

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areas is 5,000 and the number of locations (BSLs and eligible CAIs) proposed for a particular project area is 6,000, the project area would receive 1 point. If the number of locations (BSLs and eligible CAIs) proposed for a particular project area is 4,000, the project area would receive 0 points.

D. Bidding scenarios

All bids will be scored first according to the relevant rubric, with priority bids scored according to the priority bid rubric, and non-priority bids scored according to the non-priority bid rubric. Once all bids have been scored, they will then be evaluated to determine winners based on the number of bids in a given project area, as further detailed below.

Note that as described in 2.4.9 and 2.4.10, the Extremely High Cost Per Location Threshold (EHCPLT) will not be set until all applications have been received.

i. One-bid scenarios

If a single priority bid meeting all minimum/gating criteria is received for a project area, the MBO will evaluate whether or not the bid exceeds the EHCPLT, as determined using the process outlined below in sections 2.4.9 and 2.4.10. If the bid exceeds the EHCPLT, the MBO will negotiate with the applicant to attempt to bring the bid beneath the threshold. If the bid remains above the threshold, the project area will move through the process outlined in the zero-bid scenario in Section 2.4.7.

If the single priority bid received is beneath the EHCPLT, or if it is brought below the threshold through negotiations, it will then be evaluated against the project area benchmark. If it is within the project area benchmark, it will be accepted. If above the benchmark, the MBO will negotiate with the applicant to reach a reasonable cost, given the state's BEAD funding constraints.

If a single non-priority bid is received, the MBO will review the cost of the proposal in relation to the benchmark. If the bid is within the benchmark for the given project area, the bid will be accepted. If the bid is above the benchmark, the MBO will negotiate with the applicant to determine a reasonable cost. If an agreement is reached, that applicant will be the winner. If not, the project area will go through the process outlined in the zero-bid scenario.

Given that a particular subgrantee applicant could risk losing a potential award (with the funds going to an alternative technology or satellite), they will have an incentive to collaborate with the MBO during the negotiation process to reach an agreement for deploying broadband.

ii. Two+ bid scenarios

If two or more bids are submitted for overlapping project areas, but only one of those bids is priority, the process will be as follows:

1. The MBO will assess the single priority bid.
2. If the single priority bid is above the EHCPLT, the MBO will negotiate with the provider to attempt to bring the bid beneath the threshold. If the single priority bid is brought beneath the EHCPLT, the MBO will move to step 3. If the single priority bid cannot be brought under the EHCPLT, the MBO will move to step 4.

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3. With the single priority bid below the EHCPLT, that bid will then be evaluated against the benchmark for the given project area. If the single priority bid is below the benchmark, that bid will win. If the single priority bid is above the benchmark, the MBO will collaborate with the applicant to determine a reasonable cost.
4. If the MBO does not award the single priority bid (e.g., the single priority bid cannot be brought under the EHCPLT), the MBO will move on to evaluating non-priority bids in order of highest to lowest score. The bid with the highest score will be the preliminary winner.
5. If the preliminary winner's non-priority bid is within the benchmark set for the given project area, that bid will win.
6. If the non-priority bid exceeds the benchmark, the MBO will negotiate with the applicant to attempt to arrive at a mutually agreeable cost. If the negotiation is successful, the non-priority bid will be accepted.
7. If no agreement can be reached with the applicant, the MBO will move on to the next non-priority proposal with the next highest score and repeat the same process of evaluating the cost of the proposal against the benchmark and negotiating with the provider to determine a reasonable cost. This process will continue, moving in order of non-priority applications with the highest to lowest scores until an agreement is reached, at which point that application will be deemed the winner.
8. If no application can be brought within a reasonable cost, given the state's limited BEAD funding, the project area will go through the process outlined in the zero-bid scenario in Section 2.4.7.

The process for evaluating **other 2+ bid scenarios** will be as follows:

1. The MBO will first assess priority bids, starting with the highest-scoring bid.
2. If the priority bid is above the EHCPLT, the MBO will negotiate with the provider to attempt to bring the bid beneath the threshold. If brought beneath the EHCPLT, the MBO will move to step 3. If it cannot be brought under the EHCPLT, the MBO will move to step 4.
3. If the priority bid is below the EHCPLT, that bid will then be evaluated against the benchmark for the given project area. If within the benchmark, that bid will win. If above the benchmark, the MBO will negotiate with the applicant to arrive at a reasonable cost. If successful, that bid will win. If unsuccessful, the MBO will move on to step 4.
4. If there are additional priority bids, the MBO will evaluate those bids, in order of highest to lowest score, repeating steps 2-3 until a bid is awarded.
5. In the event that the MBO does not award a priority bid (e.g., no priority bids can be brought below the EHCPLT), it will move on to evaluating non-priority bids in order of highest to lowest score. The bid with the highest score will be the preliminary winner.

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6. If the preliminary winner's bid is within the benchmark for the given project area, that bid will win.
7. If the bid exceeds the benchmark, the MBO will negotiate with the applicant to attempt to arrive at a reasonable cost. If an agreement is reached, the bid will be awarded.
8. If no agreement can be reached, the MBO will move on to the proposal with the next highest score and repeat the same process of evaluating the cost of the proposal against the benchmark, negotiating with the provider as necessary. This process will continue, moving in order of applications from the highest to lowest scores until an agreement is reached, at which point the bid will be awarded.
9. If no application can be brought within a reasonable cost, given the state's limited BEAD funding, the project area will go through the process outlined in the zero-bid scenario in 2.4.7.

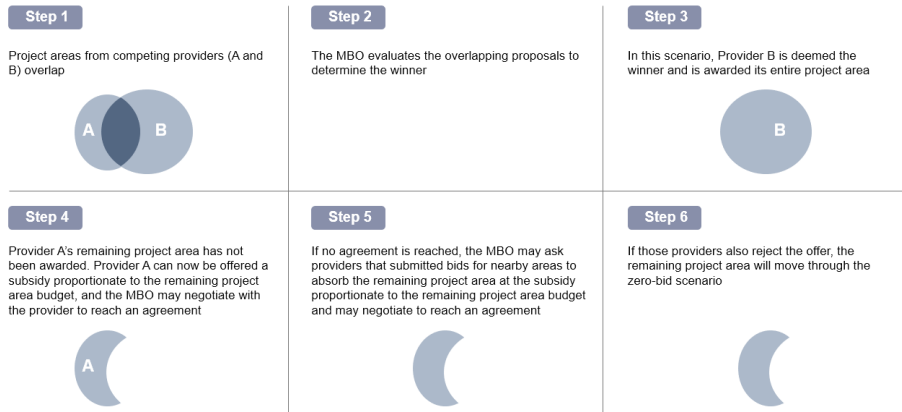
E. Overlapping project areas

Because the MBO is allowing subgrantees to define their own project areas by combining CBGs (i.e., a full project area described by a potential subgrantee applicant will include one or the combination of two or more CBGs), the MBO anticipates receiving bids for project areas in which CBGs overlap with CBGs proposed in project areas by other applicants. As described in Section 2.4.6, utilizing the per-CBG reference funding benchmark will allow for like-to-like comparisons to determine winning applications.

The State will utilize the process outlined in **Exhibit 24** to address these overlapping proposals. As **Exhibit 24** illustrates, conflicting project areas will be evaluated by first scoring each proposal. Priority bids will then be evaluated first before moving to non-priority bids. In each case, the provider that achieves the higher score will determine the preliminary winner, following the process outlined for 2+ bid scenarios above. Subgrantee applicants are encouraged to outline extremely high-cost locations within project area CBGs that if removed, would allow the potential subgrantee applicant to make a more competitive bid on the CBG. The MBO reserves the right during the final negotiation process with potential subgrantee applicants to consider alternative technologies for these extremely high-cost locations in order to serve the most un- and underserved locations in the State. Please see section 2.4.10.A below and **Exhibit 27** in Section 2.4.3 for more details.

Once the overlapping project area has been awarded, the provider that submitted an application for the remaining unawarded project area will be offered a subsidy proportionate to the benchmark for the remaining unawarded project area. If that provider rejects the offer, the MBO may ask prequalified applicants that submitted bids for adjacent or nearby project areas to absorb the remaining project area at the subsidy proportionate to the remaining project area benchmark. If those providers also reject the offer, the remaining area will move into the Remaining Location Tranche and go through the process outlined in 2.4.7.

Exhibit 24: Awarding overlapping project areas



2.4.2.1 Scoring Rubric Attachment

2.4.2.1 Attachment: As a required attachment, submit the scoring rubric to be used in the subgrantee selection process for deployment projects. Eligible Entities may use the template provided by NTIA or use their own format for the scoring rubric.

The MBO has designed two scoring rubrics, one for priority broadband projects and one for non-priority broadband projects. A summary of each of these scoring rubrics is provided in

Exhibit 25 and **Exhibit 26** below. The full scoring rubrics are provided as attachments, per NTIA guidance.

Exhibit 25: Scoring rubric for priority broadband projects

Primary criteria (must be ≥ 75%)	Maximum Points Possible
Minimal BEAD program outlay: Per project BEAD grant request	40
Affordability: Lowest price for 1/1 Gbps service commitment	20
Fair labor practices: Past compliance with fair labor practices and future commitment to prevailing wages	15
Secondary criteria	
Speed to deployment (<4 years)	1
Additional prioritization factors	
Whether the proposed project area serves unserved or underserved areas, with unserved areas receiving greater weight	14
Broadband service providers who have broadband service infrastructure already deployed in the project area	4
The length of time the provider has been providing broadband service in the state	4
High-cost areas must be considered for services to the extent terrestrial service is economically viable	1
The number of households, businesses, farms, ranches, and community anchor institutions served	1
Total score	100

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Exhibit 26: Non-priority deployment projects scoring rubric

Primary criteria (must be ≥ 75%)	Maximum Points Possible
Minimal BEAD program outlay: Per project BEAD grant request	40
Affordability: Lowest price for 100/20 Mbps service commitment	20
Fair labor practices: Past compliance with fair labor practices and future commitment to prevailing wages	15
Secondary criteria	
Speed to deployment (<4 years)	1
Speed of network and other technical capabilities	1
Additional prioritization factors	
Whether the proposed project area serves unserved or underserved areas, with unserved areas receiving greater weight	14
Broadband service providers who have broadband service infrastructure already deployed in the project area	3
The length of time the provider has been providing broadband service in the state	4
High-cost areas must be considered for services to the extent terrestrial service is economically viable	1
The number of households, businesses, farms, ranches, and community anchor institutions served	1
Total score	100

2.4.3 Prioritize Unserved Service Projects

Text Box: Describe how the proposed subgrantee selection process will prioritize Unserved Service Projects in a manner that ensures complete coverage of all unserved locations prior to prioritizing Underserved Service Projects followed by prioritization of eligible CAIs.

Based on data from the CQA cost model, the MBO estimates that it could cost up to potentially \$1.2B to provide fiber to the home (FTTH) for all unserved and underserved BSLs.⁴⁴ Further, 5% of the total unserved and underserved locations are projected to need \$682M in potential subsidies, and the last 1% of unserved and underserved locations are expected to need an average subsidy of \$314,000 per location. The last 0.1% of locations may even need an average of \$746,000 in potential subsidies. By design, it is difficult and costly to serve all of the un- and underserved BSLs in Montana given the vast land area, the low population density, and the various topographical challenges (e.g., Rocky Mountains and sprawling plains).

Cost estimates may change when all federal funding obligations are taken into account—for example, at the time of drafting, the results of the E-ACAM funding have not yet been finalized. In any event, the MBO anticipates that there will still be a shortfall of funding to meet the BEAD goal of connecting all un- and underserved Montanans with fiber.

In addition, the MBO notes that given the distribution of BEAD-eligible locations across the state, the CBGs that comprise application areas are expected to include a diverse mix of unserved, underserved, and served locations; however, only the individual eligible locations within a CBG shall be considered Unserved Service Projects or Underserved Service Projects for BEAD eligibility

⁴⁴ Estimates based on the 20-year net present value of greenfield fiber to the home deployment to all unserved or all unserved and underserved BSLs, CostQuest Associates cost model (Jan 2023)

purposes,⁴⁵ and BEAD funds will only be reimbursed for deployment to eligible locations. In other words, a CBG shall function as a “bidding unit” to be used in creating project areas, but only individual eligible locations shall be treated as Unserved Service Projects or Underserved Service Projects that are eligible to receive BEAD subgrant funding.

Given the high cost to serve a number of locations, as well as the expected funding shortfall to reach all BSLs with FTTH, the MBO plans to utilize several different tactics to support the goal of reaching all unserved BSLs, including:

Extremely High Cost Per Location Threshold (EHCPLT): The EHCPLT will not be set until all bids are received, as it will be used as a budgeting mechanism to make the best use of limited funds. The MBO expects to set its EHCPLT as high as possible to maximize the use of fiber while ensuring service to all un- and underserved BSLs.

Reference funding benchmarks: The MBO is committed to achieving the BEAD objective of providing service to all unserved BSLs, and to reaching as many underserved BSLs as possible. Because the MBO anticipates the need for careful selection of the technology mix of final subgrant awards in order to achieve the BEAD program goal of universal coverage, the MBO plans to rely strongly on internal benchmarking. As described in 2.4.2, the MBO will set CBG benchmarks based on the CQA cost model and constraining the sum of the benchmarks to the state’s BEAD allocation. The benchmarks will be tied closely to the scoring criteria and the subgrantee selection process, as detailed in 2.4.2, thereby ensuring a transparent process

Negotiation with subgrantee applicants: In the processes for evaluating various bidding scenarios, outlined in 2.4.2, once the MBO has selected preliminary winners using the scoring rubric the MBO explicitly references its plans to negotiate with preliminary winners whose bids exceed the benchmark for a given project area. The goal is to work jointly with potential providers to reach reasonable costs, so that the MBO can extend funding. The MBO also plans to have subgrantee applicants identify locations in their bids that are high-cost drivers to give the MBO visibility into locations that may be increasing the expected price of a potential bid.

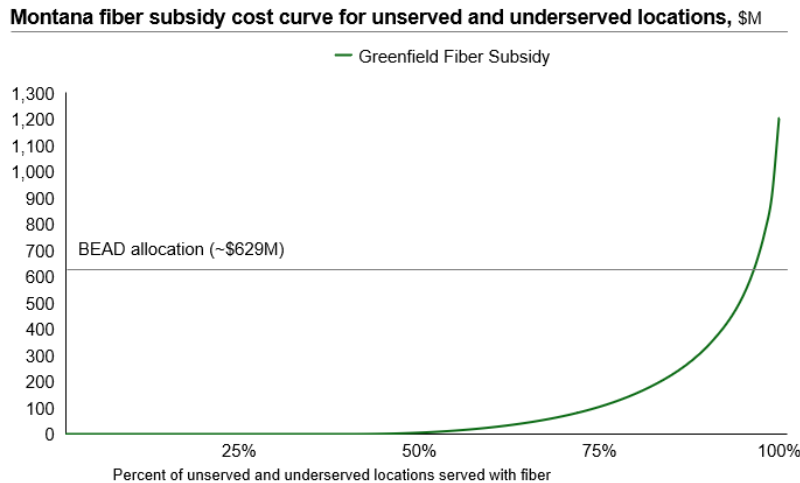
Technology mix: As noted above in reference to setting the EHCPLT, the MBO plans to utilize fiber wherever feasible, and will set the EHCPLT with this in mind, but it also anticipates using a mix of technologies to provide service to as many unserved locations as possible.

High-cost area scoring criterion: As referenced in the scoring process and rubric in 2.4.2 and 2.4.2.1, Montana has added a secondary criterion to incentivize applicants to incorporate high-cost CBGs into their project areas.

Evaluating high-cost outliers: As a last resort, the MBO maintains the right to evaluate the cost to serve individual BSLs within project areas and consider alternative service opportunities for extremely high-cost locations. This is relevant as some of the most challenging locations to serve with fiber at the peak of the cost curve may require upwards of \$1-3M per location to serve, adding a significant financial burden to certain project area proposals (**Exhibit 27**).

⁴⁵ An ‘Unserved Service Project’ or ‘Underserved Service Project’ can be as small as a single unserved or underserved location, respectively. BEAD NOFO Section IV.B.7.a.ii.1.

Exhibit 27: Estimated Montana fiber subsidy cost curve for unserved and underserved locations⁴⁶



Unserved location prioritization: To the best of its ability, the MBO will try to extend service to all unserved and underserved locations. However, as agreed to by prospective applicants at the outset of the process as a condition of participation, the MBO will retain the right not to fund underserved locations in the event of a funding shortfall. Further, if it becomes apparent to the MBO that it will be impossible to provide service to all unserved BSLs, the MBO will prioritize funding projects in high poverty areas or persistent poverty counties. This is in line with the BEAD NOFO guidance, which states that: “To the extent that an Eligible Entity demonstrates that there are insufficient funds available to fund deployment to all unserved, underserved, or eligible CAI locations, the Eligible Entity must prioritize projects within each of those categories based on a strong preference for projects in high poverty areas or persistent poverty counties.”⁴⁷

The NOFO further indicates that, “For the purposes of this requirement, high poverty areas are areas in which the percentage of individuals with a household income that is at or below 150 percent of the poverty line applicable to a family of the size involved (as determined under Section 673(2) of the Community Services Block Grant Act (42 U.S.C. § 9902(2)) is higher than the

⁴⁶ Analysis conducted by the MBO, estimates for fiber subsidy required assumes that locations connected by RDOF, RUS, CAF II, NTIABIP, and Reconnect (up to December 2023) are considered served. Subsidy required by location represents the NPV investment required for the location, estimated future cash flows, and estimated ISP investment for each location.

⁴⁷ BEAD NOFO, p. 41, <https://broadbandusa.ntia.doc.gov/sites/default/files/2022-05/BEAD%20NOFO.pdf>

national percentage of such individuals. Persistent poverty counties are counties that have had poverty rates of 20 percent or greater for at least 30 years as calculated by the Economic Research Service in the Department of Agriculture.”⁴⁸

2.4.4 Non-deployment Projects

Text Box: If proposing to use BEAD funds to prioritize non-deployment projects prior to, or in lieu of the deployment of services to eligible CAIs, provide a strong rationale for doing so. If not applicable to plans, note “Not applicable.”

Not applicable. The MBO does not anticipate having sufficient BEAD funds for non-deployment uses. In the event MBO has remaining funds after reaching all unserved, underserved, and CAIs, then MBO will use any additional funds to bolster the Digital Opportunity Program efforts as laid out in Montana’s Digital Opportunity Plan.

2.4.5 EHP and BABA Compliance

Text Box: The proposed subgrantee selection process is expected to demonstrate to subgrantees how to comply with all applicable Environmental and Historic Preservation (EHP) and Build America, Buy America Act (BABA) requirements for their respective project or projects. Describe how the Eligible Entity will communicate EHP and BABA requirements to prospective subgrantees, and how EHP and BABA requirements will be incorporated into the subgrantee selection process.

The State is committed to following all relevant federal and state guidance and regulations in the deployment of BEAD funds. As such, the MBO will communicate to potential subgrantees their responsibilities in following regulations established by the Build America, Buy America Act (BABA) and the Environmental and Historic Preservation (EHP) requirements.

To meet BABA requirements, subgrantees must meet the following criteria:⁴⁹

- All iron, steel, and manufactured products (including but not limited to fiber-optic communications facilities) and construction materials used in the project must be produced in the United States, as defined in Section 70921 of the Build America Buy America Act.⁵⁰
- The Secretary of Commerce will seek to minimize any BABA requirement waivers, and those waivers that are offered will be limited in duration and scope.⁵¹ However, a BABA requirement waiver may be offered if:
 - Applying a domestic procurement would be inconsistent with the public interest;
 - The types of iron, steel, manufactured products, or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality;

⁴⁸ BEAD NOFO, p. 41, <https://broadbandusa.ntia.doc.gov/sites/default/files/2022-05/BEAD%20NOFO.pdf>

⁴⁹ BEAD NOFO, p. 87, <https://broadbandusa.ntia.doc.gov/sites/default/files/2022-05/BEAD%20NOFO.pdf>

⁵⁰ Ibid.

⁵¹ BEAD NOFO, pp. 87-88, <https://broadbandusa.ntia.doc.gov/sites/default/files/2022-05/BEAD%20NOFO.pdf>

- The inclusion of iron, steel, manufactured products, or construction materials produced in the United States will increase the cost of the overall project or other eligible activities by more than 25 percent.⁵²

The MBO will also ensure that subgrantees are aware of and comply with additional purchasing restrictions laid out in the NOFO. For example, subgrantees cannot use BEAD funding to purchase or support any covered communications equipment or services.⁵³ Moreover, subgrantees cannot use BEAD funding to purchase or support fiber optic cable and optical transmission equipment manufactured in the People's Republic of China unless a waiver is received from the Assistant Secretary of Commerce.⁵⁴ To obtain a waiver in this scenario, the potential subgrantee will need to demonstrate that this restriction would unreasonably increase the cost of the project, delay it, or delay other related activities.

Prospective subgrantees will also have to demonstrate compliance with Environmental and Historical Preservation requirements. As recommended by BEAD guidance, the MBO will engage in and document the following activities, and encourage subgrantees to do the same:

- Coordinate with federal land- and resource-managing agencies, such as the National Park Service, U.S. Fish and Wildlife Service, the Bureau of Land Management, and the U.S. Forest Service.
- Coordinate with state agencies that may have a role in EHP requirements, such as the Department of Natural Resources and Conservation (DNRC) and the Department of Environmental Quality (DEQ).
- Provide contracted, EHP-related subject matter expertise and technical support where currently not available.⁵⁵

Moreover, the MBO will engage in the following activities and encourage subgrantees to do the same, per the EHP and Climate Resiliency Checklist in the BEAD Initial Proposal Volume II:

- Gain an understanding of the National Environmental Policy Act (NEPA) review process and the National Historic Preservation Act (NHPA).
- Hire additional staff or contractors as necessary to ensure adequate capacity and expertise to manage EHP compliance.⁵⁶

MBO will offer technical assistance to applicants to ensure that providers are able to effectively meet these requirements. The MBO will direct subgrantees seeking further assistance to the central ConnectMT hub, where they can find relevant guidance, links, and FAQs.

⁵² Ibid.

⁵³ BEAD NOFO, p. 88, <https://broadbandusa.ntia.doc.gov/sites/default/files/2022-05/BEAD%20NOFO.pdf>

⁵⁴ Ibid.

⁵⁵ BEAD Initial Proposal Volume II Guidance, p. 46, https://broadbandusa.ntia.doc.gov/sites/default/files/2023-07/BEAD_Initial_Proposal_Guidance_Volumes_I_II.pdf

⁵⁶ EHP and Climate Resiliency Checklist, https://broadbandusa.ntia.gov/sites/default/files/2022-12/EHP_Preparation_Checklist_2022.pdf

During the prequalification round, the MBO will make applicable EHP and BABA requirements known to applicants, who must certify that they understand and will comply. Subgrantees will be required to recertify compliance on a semiannual basis for the duration of the BEAD implementation period by providing invoices demonstrating that materials were sourced domestically. Note that disbursements will not be made until the MBO has verified that EHP requirements have been met.

Last-Mile Broadband Deployment Project Areas

2.4.6 Project Area Definition

Text Box: Describe how the Eligible Entity will define project areas from which they will solicit proposals from prospective subgrantees. If prospective subgrantees will be given the option to define alternative proposed project areas, describe the mechanism for de- conflicting overlapping proposals to allow for like-to-like comparisons of competing proposals.

The MBO conducted a thoughtful and rigorous process to develop an approach to project areas that would achieve the goals of the State of Montana and the BEAD program in reaching as many un- and underserved locations as possible. The process the MBO utilized to design a project area approach and the key components of the final design is further detailed in the sub-sections below and includes **potential project area definition approaches**, **soliciting feedback**, key **design principles**, the final **project area definition**, acceptable **bid submissions**, and ensuring **like-to-like comparisons**.

A. Potential project area definition approaches

Over the course of designing its subgrantee process, the MBO developed several different potential approaches to defining project areas, which it sought input on from a number of stakeholders, including members of the Communications Advisory Commission (CAC), service providers in the state of Montana, and the public at large. The three primary approaches that were considered are described below.

i. MBO-defined project areas

In the interest of creating a simple and straightforward process, the MBO considered pre-defining project areas. Given the importance of fostering objectivity and fairness, in this scenario, rather than drawing new boundaries across the state to create project areas, the MBO planned to rely on existing areas.

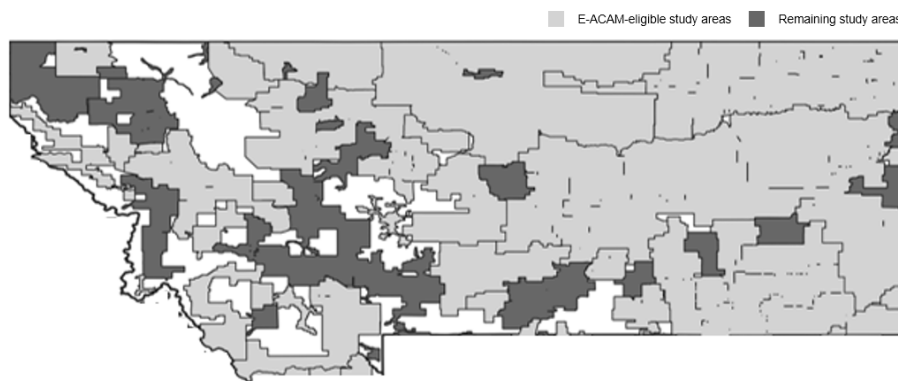
Responding to suggestions from existing providers, the MBO considered using study areas, which are locally administered telecommunications regions based on traditional voice service areas (or similarly, exchange boundaries, which roll up into study areas).⁵⁷ These pre-established boundaries are familiar to a number of providers, as the areas have been used routinely in the past to allocate federal funding. For example, the Alternative Connect America Cost Model (ACAM), and its successor program, the Enhanced Alternative Connect America Cost Model (E-ACAM), both

⁵⁷ Study Area Boundaries, FCC, <https://www.fcc.gov/reports-research/maps/study-area-boundaries/>

distribute funds in accordance with these boundaries.^{58 59} Note that the State was weighing the pros and cons of project area designs, including this one, in September 2023, before the outcome of the E-ACAM funding was announced. Given the potential impact of E-ACAM funding on the un- and underserved location landscape, there was a particular interest in accounting for study areas.

Since some of these study areas are quite vast, sprawling across large swaths of land, the MBO also contemplated breaking up these areas into smaller components. However, there was not a clear path forward to objectively constructing these areas, and the State was concerned about inadvertently harming one provider or favoring another. **Exhibit 28** and **Exhibit 29** below outline the study area boundaries used in recent federal funding programs and how they overlay with un- and underserved locations in Montana.

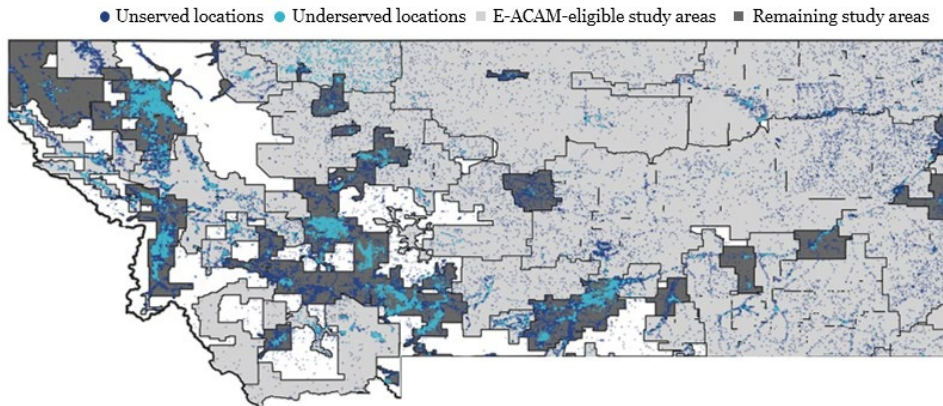
Exhibit 28: Montana study areas and E-ACAM-eligible study areas



⁵⁸ Alternative Connect American Cost Model (A-CAM), Rate-of-Return Areas for Download, <https://www.fcc.gov/reports-research/maps/acam-ror-sa-map/>

⁵⁹ Explore the FCC's New Enhanced ACAM Program, CostQuest Associates, August 18, 2023, <https://www.costquest.com/resources/articles/explore-the-fccs-new-enhanced-a-cam-program/>

Exhibit 29: Montana's study areas overlaid with un- and underserved locations⁶⁰



Despite the benefits in aligning to other recent funding models and the familiarity to providers, using these existing standalone units also had its shortcomings. First, the study areas are not contiguous and do not cover the state in its entirety. For this reason, additional boundaries would have to be drawn, as a subset of unserved and underserved BSLs are not contained within study areas. Also, these areas may have favored certain providers over others, given the historic dominance of a single company in each region. Finally, this approach ran counter to one of the MBO's main objectives, which was to allow providers adequate latitude in creating project areas that best align with their business models. The State understands that allowing flexibility for providers to leverage their existing infrastructure or expand their service areas to particular geographies to optimize their business cases may help to ensure efficient use of funding and extend public funding further.

After sharing this approach publicly and reviewing feedback from key stakeholder groups, including the CAC, the MBO decided against pre-defining project areas.

ii. *Provider-defined project areas*

To address the primary shortcoming associated with pre-defined project areas, the MBO also considered giving providers complete flexibility in designing their own project areas. Given that providers have the best understanding of their existing infrastructure, this approach would ensure that providers could design project areas that best reflect their preferred business cases. In accordance with NTIA guidance, which states that, "An 'Unserved Service Project' or 'Underserved Service Project' may be as small as a single unserved or underserved location, respectively," this approach would allow providers to build their project areas using individual BSLs at the smallest or largest aggregation levels.

⁶⁰ BSLs sourced from the FCC NBAM, <https://broadband477map.fcc.gov/#/>

While this approach would have given providers the most flexibility, it also had a number of critical shortcomings. First, this approach could have yielded an enormous number of location combinations, which would not have allowed a like-to-like comparison of proposals, a key BEAD requirement. This approach may also have resulted in selectively choosing more attractive locations and ultimately failing to achieve a core BEAD requirement and priority for the State of Montana in reaching all unserved (and ideally underserved) locations.

Following input from a number of stakeholders, including providers themselves, who also expressed concern given the shortcomings outlined above, the MBO decided not to pursue this design approach.

iii. *Provider-defined project areas using existing units*

In the interest of providing applicants the freedom to design their ideal business cases while still maintaining objectivity, the MBO also considered a hybrid approach in which the MBO would designate foundational units that could be assembled in different combinations by providers to create project areas. Designating “building blocks” could bring a level of order to the process while giving applicants more agency to define their ideal territories.

The potential units considered ranged widely in size and number. However, the key considerations in determining units were to ensure they a) do not overlap, b) cover the entire state of Montana, and c) are based on a neutral, objective criteria. To meet these criteria, the MBO considered existing administrative boundaries, including census blocks, census block groups, census tracts, and counties. Using administrative boundaries in particular, like those defined by the United States Census Bureau, could confer a high level of objectivity. As noted in **Exhibit 30**, the number of administrative boundary units could have ranged from 56 (counties) to 88,417 (census blocks).

Exhibit 30: Potential project area foundational units⁶¹

Unit	Number of units
Census blocks	88,417
Census block groups	900
Census tracts	319
Counties	56

⁶¹ 2020 Census Tallies of Census Tracts, Block Groups & Blocks, https://www.census.gov/geographies/reference-files/time-series/geo/tallies.html#tract_bg_block

Exhibit 31 and **Exhibit 32** illustrate the different size and number of census tracts and census block groups, respectively, that comprise the state of Montana.

Exhibit 31: Census tract boundaries

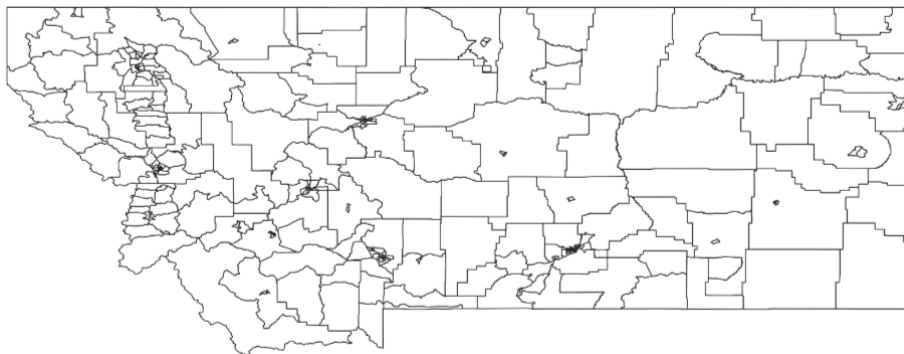
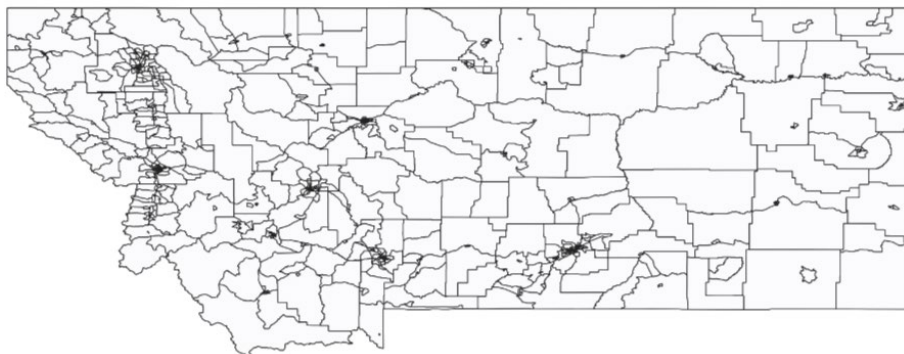


Exhibit 32: Census block group boundaries



By utilizing a hybrid approach, the MBO could address the key issues associated with the other approaches outlined above by both providing an objective unit for comparison that covers all un- and underserved areas, while still providing flexibility for providers to define their own project areas. This decision should help Montana achieve universal coverage by incentivizing potential subgrantee applicants to bid on areas with a mix of hard and easy to reach locations and simultaneously ensure no locations are left out.

B. Soliciting feedback

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Throughout the design of the entire subgrantee process, and particularly during the definition of project areas, the MBO was keen to involve as many stakeholders as possible. The approaches laid out above were initially developed with input gathered from providers, the public, and legislators. In addition, the ideas were socialized broadly, and the State weighed the pros and cons of the different options.

One of the main avenues used to solicit feedback on the potential project area design was the monthly Communications Advisory Commission (CAC) meetings. The project area design concept was first introduced during the CAC meeting on July 12, 2023, during which the MBO solicited early feedback on potential project area designs. Following feedback received during the July CAC, the potential options were further expanded upon for additional feedback during the next CAC meeting on August 8, 2023. These discussions culminated in the September 6, 2023, CAC meeting, during which project area design was a key component of the discussion. In accordance with SB531, materials for each of the CAC meetings were posted on the ConnectMT website two weeks ahead of the meetings.⁶² This gave the CAC members and the public at large an opportunity to familiarize themselves with these approaches. The CAC meetings were attended in person by legislators, providers, and members of the public, who shared their thoughts.

In addition, the MBO attended and presented at the 2023 BroadbandMT Annual Membership meeting in August 2023. The meeting was attended by representatives from many of Montana's local telecommunications providers, which jointly "employ over 1,000 Montanans and invest nearly \$100 million each year in capital and operating expenditures."⁶³ This cohort represents a broad swath of Montana telecommunications providers—more than 50% of ARPA applicants were BroadbandMT members. The conference gave the MBO a chance to share its thoughts regarding project area design and the subgrantee process more broadly and to solicit feedback from a number of established providers, many of whom expect to apply for BEAD funding.

C. Project area design principles

As the MBO socialized these potential approaches and gathered feedback from key stakeholders as outlined above, it became clear that the MBO should strive to achieve several priorities:

- **Universal service:** Project areas should be designed in a way that allows Montana to achieve the BEAD goal of reaching all unserved, and to the extent possible, underserved locations;
- **Fairness:** As the foundation for participating in the subgrantee process, the project areas should be designed to ensure objectivity while also enabling all types of providers to compete in the process without favoring any one provider or type of provider; and
- **Customization:** Applicants should have the flexibility and freedom to create cost-effective project areas that allow them to best serve their customers, leverage their existing infrastructure, and meet their business objectives.

⁶² Montana Senate Bill 531, https://leg.mt.gov/bills/2023/SBo599/SBo531_1.pdf

⁶³ The Association, BroadbandMT, <https://www.broadbandmt.com/the-association>

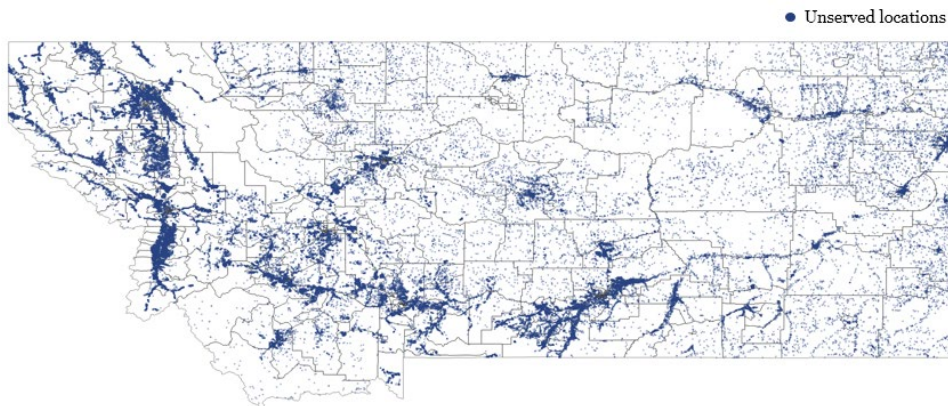
- **Feasibility:** Project areas should be able to be proposed using an approach that is well understood by providers and that does not introduce any barriers to participation by interested applicants.

D. Project area definition

It was in the spirit of achieving these design principles, and following extensive input from various stakeholders, that the MBO decided to pursue Option C, allowing providers to define their desired project areas using existing units.

Ultimately, the MBO found CBGs to be the optimal units, given their size and number. The distribution of un- and underserved locations is illustrated in **Exhibit 33**, **Exhibit 34**, and **Exhibit 35** below.

Exhibit 33: Map of Montana's unserved BSLs across CBGs⁶⁴



⁶⁴ BSLs sourced from the FCC NBAM, <https://broadband477map.fcc.gov/#/>

Exhibit 34: Map of Montana's underserved BSLs across CBGs⁶⁵

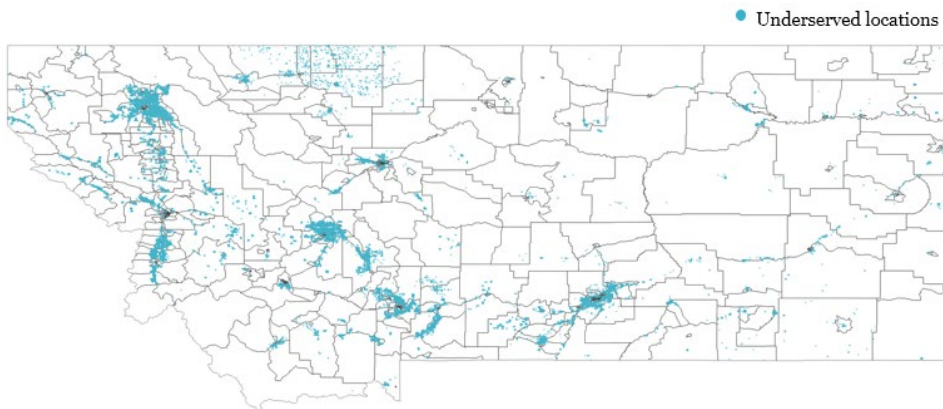
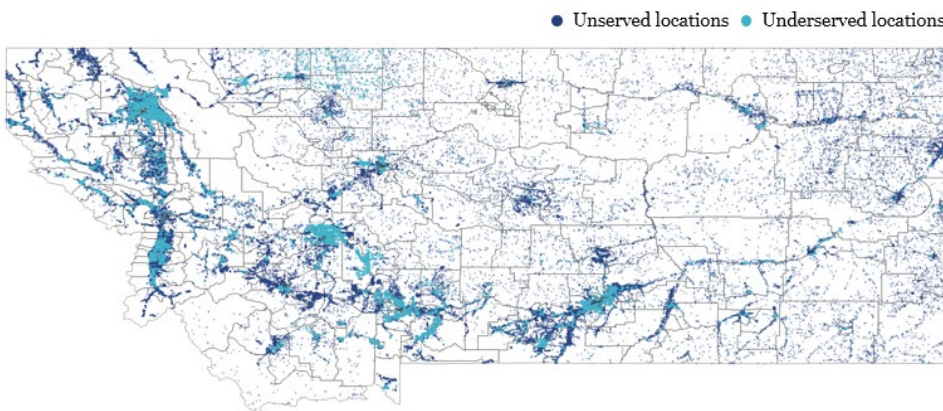


Exhibit 35: Map of Montana's un- and underserved BSLs across CBGs⁶⁶



By using CBGs, the State can maintain impartiality, as these geographic areas are existing administrative boundaries and therefore do not favor one provider over another. However, providers can design the project areas that make the most operational and financial sense. The hope is that by providing this level of customization, a broad range of providers will be encouraged to participate in the subgrantee process.

⁶⁵ BSLs sourced from the FCC NBAM, <https://broadband477map.fcc.gov/#/>

⁶⁶ BSLs sourced from the FCC NBAM, <https://broadband477map.fcc.gov/#/>

While the majority of CBGs are of a manageable size, some CBGs are particularly vast, and the sheer land area might be too large for one provider to serve. Alternatively, some CBGs may have geographic or topographical challenges—for instance, a mountain range or a large body of water. In either case, and potentially others, as pertinent and logical, the State may break some of the CBGs up into one or more smaller areas in a way that accounts for the distribution of un- and underserved BSLs. If the MBO decides to split some CBGs, this will be done before the application process begins to ensure subgrantee applicants know the exact set of geographic units eligible for funding.

E. Project area bid submissions

When submitting applications, the MBO will allow providers to submit applications for multiple non-overlapping project areas. For example:

Provider may submit:

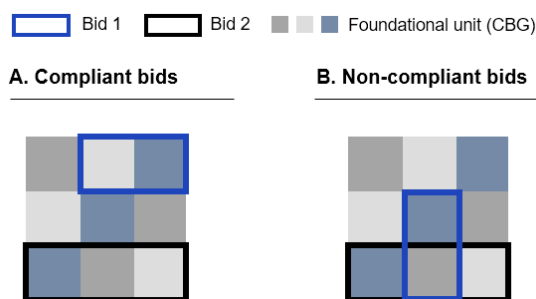
- Bid 1: Units 1, 2, 3, 4 (\$X) and
- Bid 2: Units 5, 6, 7 (\$Y)

Provider may not submit:

- Bid 1: Units 1, 2, 3, 4 (\$X) and
- Bid 2: Units 1, 2, 7 (\$Y)

In **Exhibit 36**, each individual square represents a single foundational unit (CBG). The same provider may submit the two bids illustrated in Option A, as the two project areas are not overlapping. However, the same provider would not be permitted to submit the two bids outlined in Option B, as these are overlapping project areas.

Exhibit 36: Compliant and non-compliant bids from the same provider



Applicants will be required to serve every un- and underserved broadband serviceable location (BSL) that falls within a given project area.

F. Like-to-like comparison

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As the MBO will allow prospective subgrantees to define their own proposed project areas, the State has also developed a mechanism for de-conflicting overlapping proposals to allow for like-to-like comparison.

Each CBG—the foundational unit of all project areas—will be assigned a benchmark funding need. The benchmark will be based on the CostQuest Associates cost model provided by NTIA as a starting point to ensure objectivity. Subgrantees’ per-project BEAD grant requests will be compared to this per-project benchmark, which will equal the sum of the benchmarks of the CBGs that comprise the project area.

As further detailed in Section 2.4.2, every application will be scored relative to the benchmarks for the CBGs it comprises. Points will be awarded based on the relative percent an applicant’s bid is below or above the benchmark. This will allow the MBO to compare apples to apples on a cost basis, while allowing providers the freedom to develop their most compelling business cases by providing one total budget for the entire project area.

2.4.7 Zero-bid Scenarios and Remaining Location Tranche

Text Box: If no proposals to serve a location or group of locations that are unserved, underserved, or a combination of both are received, describe how the Eligible Entity will engage with prospective subgrantees in subsequent funding rounds to find providers willing to expand their existing or proposed service areas or other actions that the Eligible Entity will take to ensure universal coverage.

The MBO recognizes that given the remote nature of the state of Montana and the extremely high cost likely required to serve many locations, there may be some CBGs with un- and underserved locations for which the MBO does not receive any applications. The sub-sections below outline two processes.

- 1) A process if zero bids are received for a given CBG.
- 2) A process for ensuring all un- and underserved locations have access to broadband if the process outlined in the zero-bid scenario does not result in a grant award.

A. Zero-bid scenario

If zero bids are received for a given CBG, the MBO will reach out to prequalified applicants that submitted bids for the same, adjacent, or nearby project areas to solicit applications, as the MBO expects the greatest likelihood of successfully soliciting a bid would come from these applicants. If that solicitation yields one or more bids, the processes outlined in the one-bid or two+ bid scenarios will be followed, depending on the number of bids received. Unserved BSLs that remain unawarded after both the main round application period and the targeted solicitation process will go into the remaining location tranche, and follow the process detailed below.

B. Remaining location tranche

Unserved BSLs that remain unawarded after both the main round application period and the targeted solicitation process will enter the remaining location tranche. For these locations, the MBO may conduct additional solicitations, potentially to a broader range of applicants. The State

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may also break up the CBGs that contain those unawarded BSLs into smaller areas, or into clusters or groups of BSLs, and appeal to nearby providers to absorb those locations into their project areas.

With current projected costs, the MBO predicts that the last 1% of unserved locations may require an average cost of \$366,000 per location and require up to 22% of the total subsidy needed to serve unserved locations. Given this, after all other fiber service options have been exhausted, the MBO will solicit alternative technology proposals for the remaining unserved BSLs, potentially through a bulk negotiation process. While not considered a reliable broadband technology by the NTIA, the MBO will resort to using such a technology if no other options are available to ensure that all unserved locations have access to speeds that meet or exceed 100/20 Mbps and meet other criteria like adaptability to changing end-user requirements, or length of serviceable life.⁶⁷

The MBO projects potential subgrantee applicants may be interested in adding a zero bid CBG to their existing project area for a variety of reasons, including, the opportunity to expand their existing project area definition from their original application, the potential subgrantee applicant may be offering alternative technologies that may be better suited to the CBG given funding available, and the MBO may use its reserved right to remove extremely high-cost locations from the CBG to make it more attractive (and use alternative technologies for the extremely high-cost locations instead).

However, the MBO does not intend to consider the use of inducements (such as the use of state funding toward the match requirement or other benefits) throughout the BEAD subgrantee process.

2.4.8 Tribal Government's Consent

Text Box: Describe how the Eligible Entity intends to submit proof of Tribal Governments' consent to deployment if planned projects include any locations on Tribal Lands.

Potential subgrantees that submit applications for project areas that are partially or wholly located on Tribal Lands must secure written permission from the Tribe or Tribes that own the land. This will be a required component of the main round application submission. Applicants must indicate via a checkbox certification whether or not a project area falls within Tribal Lands. If it does, the applicant must submit a Resolution of Consent or other formal demonstration of consent from each Tribal Government, either from the Tribal Council or other governing body, upon whose Tribal Lands the infrastructure will be deployed.

Extremely High Cost Per Location Threshold

2.4.9 Extremely High Cost Per Location Threshold identification

Text Box: Identify or outline a detailed process for identifying an Extremely High Cost Per Location Threshold to be utilized during the subgrantee selection process. The explanation must include a description of any cost models used and the parameters of those cost models, including

⁶⁷ BEAD NOFO, p. 15, <https://broadbandusa.ntia.doc.gov/sites/default/files/2022-05/BEAD%20NOFO.pdf>

whether they consider only capital expenditures or include operational costs for the lifespan of the network.

The extremely high cost per location threshold (EHCPLT) will not be set until all priority and non-priority bids are received, as it will be used to ensure that limited funds are used efficiently and that the State's service goals are met.

Given the anticipated funding shortfall of reaching FTTH for all BSLs, the State will have to strategically set its EHCPLT to achieve its dual goals of maximizing the use of fiber and optimizing available funding to reach all unserved, and as many underserved locations as possible.

To set the EHCPLT, the MBO will estimate the cost to serve all unserved and underserved BSLs using CQA data as a baseline. These estimates will be adjusted based on the bids received. Finally, an optimization analysis will be conducted to ensure that the threshold can be set as high as possible but still meet the State's goals of maximizing the use of fiber and stretching BEAD funding as far as possible including the use of other technologies permissible for BEAD subgrants.

2.4.10 Extremely High Cost Per Location Utilization

Text Box: Outline a plan for how the Extremely High Cost Per Location Threshold will be utilized in the subgrantee selection process to maximize the use of the best available technology while ensuring that the program can meet the prioritization and scoring requirements set forth in Section IV.B.6.b of the BEAD NOFO. The response must describe:

- a. The process for declining a subgrantee proposal that exceeds the threshold where an alternative technology is less expensive.

Because the MBO anticipates having insufficient funding for 100% FTTH, it will utilize careful budgeting and strategically set its EHCPLT to extend its BEAD allocation as far as possible. As noted in 2.4.2, priority and non-priority bids will be accepted in tandem during a single round. By conducting one round, the State will establish a complete view of the funds required to provide service to all unserved and as many underserved locations as possible. The MBO anticipates receiving bids both above and below budget. It will take a holistic view of all bids to determine where it can accept bids that are higher than expected, and where less expensive bids may balance out the budget. The MBO hopes this will provide room to negotiate with providers to optimize budgets while maximizing the use of fiber. However, the MBO reserves the right to not fund underserved locations in order to meet the BEAD requirement of reaching all unserved locations if funding is insufficient.

During the main round, priority bids will be assessed first, as the State endeavors to provide service to as many un- and underserved locations as possible using fiber before considering alternative technologies.

For project areas that receive both priority and non-priority bids, the MBO will first review the priority bid(s). The highest-scoring priority bid will be the preliminary winner. If the bid exceeds the EHCPLT, the MBO will negotiate with the applicant to attempt to bring the bid beneath the threshold. Specifically, FTTH proposals above the EHCPLT could be offered the opportunity to adjust their proposals in two potential ways: (1) to reduce requested funds, the applicant will be permitted to shift certain costly locations from FTTH to an alternative lower-cost Reliable broadband technology, or to remove those locations from its application if an alternative lower-cost

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Reliable application is available for all such locations, and/or (2) to remove certain CBGs (or other adjusted project area unit) from an application, with a corresponding reduction in subgrant funding level.⁶⁸ If the bid cannot be brought below the EHCPLT, the MBO will move on to the next highest-scoring priority bid and conduct the same process, collaborating closely with the provider to attempt to bring the cost of the bid beneath the threshold. If this process is unsuccessful, the MBO will move on to evaluating non-priority bids in the interest of stretching its limited funding as far as possible.

- b. The plan for engaging subgrantees to revise their proposals and ensure locations do not require a subsidy.

As indicated in 2.4.2, after scoring all applications, the MBO will evaluate every preliminary winner against the benchmark for a given project area. By considering benchmarks not only during but after the scoring process, the MBO hopes to incentivize providers to prioritize low costs of deployment in an effort to support the State in providing service to as many un- and underserved Montanans as possible.

Every application—for both priority and non-priority bids—will be assessed against the benchmark. All proposals received that exceed that benchmark will undergo a negotiation round, during which the MBO will collaborate closely with the applicant to attempt to reach the most reasonable cost for the given project area. The MBO will ask providers to identify high-cost locations in their bids and compare those costs to the State's benchmark. The inability for the MBO and a potential subgrantee applicant to reach a successful negotiated cost may lead to CBG(s) being offered to other potential subgrantee applicants. However, the MBO will neither award a non-priority bid for a given CBG when there is a priority bid below the EHCPLT nor discard a priority bid when there is only one priority bid and it is below the EHCPLT. The MBO hopes that building in this step to its application review process will ensure that fewer locations require a subsidy, and that those that do require the lowest subsidy possible.

- c. The process for selecting a proposal that involves a less costly technology and may not meet the definition of Reliable Broadband.

The MBO has designed its subgrantee evaluation process to utilize both careful budgeting and close collaboration with providers to stretch its limited funds as far as possible. These design choices were made to increase the likelihood that un- and underserved locations receive technologies that constitute Reliable Broadband.

In the event that no bids are received for a given CBG, it will move through the process outlined in the zero-bid scenario. As noted in 2.4.7, that process will include additional solicitation to attempt to secure bids that utilize reliable broadband technologies.

Unserved locations in CBGs that still do not receive bids will move to the remaining location

⁶⁸ Such per-BSL adjustments to proposals are expressly permitted by the NOFO rules for the EHCT. "An Eligible Entity may decline to select a proposal that requires a BEAD subsidy that exceeds the Extremely High Cost Per Location Threshold for any location to be served in the proposal if use of an alternative Reliable Broadband Service technology meeting the BEAD Program's technical requirements would be less expensive. Subject to the overarching requirement to run a fair, open, and competitive process, the Eligible Entity has discretion to design a selection process that allows it to engage with a prospective subgrantee to revise the proposal to ensure that no location requires a subsidy that exceeds the Extremely High Cost Per Location Threshold." NOFO IV.B.7.a.ii.11 (page 38) (emphasis added).

tranche. The MBO will then utilize any outstanding strategies, including broader solicitations, or breaking up the CBG into smaller areas, or into clusters or groups of BSLs that may be absorbed into other project areas. However, these tactics will only be considered during the remaining location tranche process and not as part of the upfront scoring and preliminary awarding phases.

After exhausting all other service options, the MBO will solicit proposals for satellite technologies for the remaining unserved BSLs, likely through a bulk negotiation process.

Deployment Subgrantee Qualifications

2.4.11 Minimum Qualifications: Financial Capability

Text Box: Describe how the Eligible Entity will ensure prospective subgrantees deploying network facilities meet the minimum qualifications for financial capability as outlined on pages 72 – 73 of the BEAD NOFO. If the Eligible Entity opts to provide application materials related to the BEAD subgrantee selection process, the Eligible Entity response may reference those to outline alignment with requirements for this section. The response must:

- a. Detail how the Eligible Entity will require prospective subgrantees to certify that they are qualified to meet the obligations associated with a Project, that prospective subgrantees will have available funds for all project costs that exceed the amount of the grant, and that prospective subgrantees will comply with all Program requirements, including service milestones. To the extent the Eligible Entity disburses funding to subgrantees only upon completion of the associated tasks, the Eligible Entity will require each prospective subgrantee to certify that it has and will continue to have sufficient financial resources to cover its eligible costs for the Project until such time as the Eligible Entity authorizes additional disbursements.

In accordance with 2.4.11 I, during the prequalification round, the potential subgrantee will be required to submit completed unqualified audited financial statements from the most recent year, as well as the unaudited interim financial statements for the current year to date.

If the most recent year's unqualified audited financial statements are not available, the applicant should submit qualified audited financial statements from the previous year accompanied by a narrative explanation as to why unqualified statements were unavailable, as well as the unaudited interim financial statements for the current year to date. In reviewing qualified audited financial statements audited by a credible firm, the MBO will consider indicators of cash flow for financial stability, positive financial indicators and absence of alarming discrepancies, and recommendations from auditors regarding material weaknesses/deficiencies. As part of the review, the review team will also verify the credentials of the auditing firm.

The MBO will complete a ratio analysis on the financial statements to evaluate the organization's financial capacity and sustainability (see **Exhibit 37**). The applicant must demonstrate that, by the end of the forecast period, at least two of the reviewed ratios (i.e., Times Interest Earned Ratio, Debt Service Coverage Ratio, or current ratio) will be equal to or greater than 1.2. For applicants that do not plan to borrow funds and without any current debt, only the current ratio requirement must be met. In addition, the applicant's days cash on hand will be assessed, and should be, on average between 60 and 90 days.

Exhibit 37: Financial ratios and required values

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Ratio	Value
Times Interest Earned Ratio (TIER)	≥ 1.2
Debt Service Coverage Ratio (DSCR)	≥ 1.2
Current ratio	≥ 1.2

The applicant must also provide a statement signed by an executive with the authority to bind the company, which certifies and guarantees the subgrantee's minimum qualifications for financial capability (i.e., the prospective subgrantee is qualified to meet the obligations associated with a Project, and the prospective subgrantee will have available funds for all project costs that exceed the amount of the grant).

During the main round, applicants will also be required to certify that they will comply with all program requirements, including service milestones.

- b. Detail how the Eligible Entity plans to establish a model letter of credit substantially similar to the model letter of credit established by the FCC in connection with the Rural Digital Opportunity Fund (RDOF).

Commented [A1]: @Moriah. I added some language here, but we also need to confirm that this entire text is included

In accordance with the BEAD NOFO, in the main round of the subgrantee process, "prospective subgrantees shall be required to submit a letter from a bank that meets eligibility requirements consistent with those set forth in 47 C.F.R. § 54.804(c)(2) committing to issue an irrevocable standby letter of credit, in the required form, to the prospective subgrantee. Prior to entering into any subgrantee agreement, subgrantees must provide the Eligible Entity an irrevocable standby letter of credit in the required form, acceptable in all respects to the Eligible Entity, in a value of no less than 25 percent of the subaward amount. In addition, a subgrantee must provide the Eligible Entity an opinion letter from legal counsel stating that in a proceeding under the Bankruptcy Code the bankruptcy court would not treat the letter of credit as property of the winning subgrantee's bankruptcy estate."

The MBO will establish a sample letter of credit (LOC) that is modeled after the Rural Digital Opportunity Fund (RDOF) LOC. This sample will be available to applicants to use when establishing LOCs as part of the main application stage. When the commitment to the LOC is submitted during the main round, the MBO will confirm that it is provided from a bank that is in good standing and that meets the BEAD NOFO requirements. As a condition of final award, the subrecipient will be required to submit the LOC.

However, the LOC requirement can be waived with a conditional programmatic waiver if a subgrantee opts to use one of the following four options:

- 1) Subgrantee Option to Use Credit Unions

That portion of the LOC Requirement that requires the use of a bank that meets the eligibility requirements of 47 C.F.R. § 54.804(c)(2) is waived where the subgrantee otherwise meets the LOC Requirement using:

Any United States credit union that:

- a) is insured by the National Credit Union Administration;⁶⁹ and

⁶⁹ NCUA is the "independent federal agency that insures deposits at federally insured credit unions, protects the members who own credit unions, and charters and regulates federal credit unions."

b) has a credit union safety rating issued by Weiss of B– or better.⁷⁰

2) Subgrantee Option to Use Performance Bonds

That the LOC Requirement is waived where:

- a) During the application process, prospective subgrantees are required to submit a letter from a company holding a certificate of authority as an acceptable surety on federal bonds as identified in the Department of Treasury Circular 570 committing to issue a performance bond to the prospective subgrantee.⁷¹ The letter shall at a minimum provide the dollar amount of the performance bond.
- b) Prior to entering into any subgrantee agreement, each prospective subgrantee obtains a performance bond, acceptable in all respects to the Eligible Entity and in a value of no less than 100 percent of the subaward amount.⁷²

Where a subgrantee chooses to exercise the option to obtain a performance bond under this waiver, the requirement that the subgrantee “provide with its letter of credit an opinion letter from legal counsel clearly stating, subject only to customary assumptions, limitations, and qualifications, that in a proceeding under Title 11 of the United States Code, 11 U.S.C. § 101 et seq. (the “Bankruptcy Code”), the bankruptcy court would not treat the letter of credit or proceeds of the letter of credit as property of the winning subgrantee’s bankruptcy estate under Section 541 of the Bankruptcy Code” is waived.

3) Reduction of LOC/Performance Bonds Upon Completion of Milestones

The requirement that “In no event, however, shall the letter of credit have a value of less than 25 percent of the subaward amount” is waived, conditioned on the requirement that the subgrantee obtain a new letter of credit in a reduced amount upon achievement of specific deployment milestones that are publicly specified by the Eligible Entity and applicable to all subgrantees subject to the LOC Requirement. Where a subgrantee chooses to utilize a performance bond in lieu of a letter of credit under Option 2 above, Eligible Entities shall also have the option to reduce the amount of the performance bond by a commensurate amount as subgrantees meet the same service milestones.

By way of example, an Eligible Entity could specify that a subgrantee may obtain a new letter of credit or renew its existing letter of credit to reduce its value in accordance with the following limitations:

- Upon demonstrating to the satisfaction of the Eligible Entity that it has completed the buildout of 40 percent of locations to be served by the project, a subgrantee may obtain a new letter of credit or renew its existing letter of credit so that it is valued at no less than 20 percent of the award amount.
- Upon demonstrating to the satisfaction of the Eligible Entity that it has completed the buildout of 60 percent of locations to be served by the project, a subgrantee may obtain a new letter of credit or renew its existing letter of credit

<https://ncua.gov/about>. The National Credit Union Administration is to credit unions as the Federal Deposit Insurance Company is to banks.

⁷⁰ <https://weissratings.com/en/credit-unions>

⁷¹ See <https://www.fiscal.treasury.gov/surety-bonds/list-certified-companies.html>

⁷² For the sake of clarity, Eligible Entities are not required to prepare a model performance bond.

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so that it is valued at no less than 15 percent of the award amount.

- Upon demonstrating to the satisfaction of the Eligible Entity that it has completed the buildout of 80 percent of locations to be served by the project, a subgrantee may obtain a new letter of credit or renew its existing letter of credit so that it is valued at no less than 10 percent of the award amount.
- Upon demonstrating to the satisfaction of the Eligible Entity that it has completed the buildout of 100 percent of locations to be served by the project, a subgrantee may terminate its letter of credit under the terms set forth therein.

4) Subgrantee Option for Alternative Initial LOC or Performance Bond Percentage

The requirement that the initial letter of credit be for 25% of the subaward amount, or in the case where a subgrantee chooses to utilize a performance bond consistent with Option 2 above, allow the initial amount of the performance bond to be lower than 100% of the subaward amount, where:

- a) The Eligible Entity issues funding on a reimbursable basis consistent with Section IV.C.1.b of the NOFO;
- b) Reimbursement is for periods of no more than six months; and
- c) The subgrantee commits to maintain a letter of credit or performance bond in the amount of 10% of the subaward until it has demonstrated to satisfaction of the Eligible Entity that it has completed the buildout of 100 percent of locations to be served by the project or until the period of performance of the subaward has ended, whichever occurs first.⁷³

c. Detail how the Eligible Entity will require prospective subgrantees to submit audited financial statements.

As noted in 2.4.11 (a), during the prequalification round, the potential subgrantee will be required to submit completed unqualified audited financial statements from the most recent year, as well as the unaudited interim financial statements for the current year to date.

If the most recent year's unqualified audited financial statements are not available, the applicant should submit qualified audited financial statements from the previous year accompanied by a narrative explanation as to why unqualified statements were unavailable, as well as the unaudited interim financial statements for the current year to date.

If audited financial statements are not yet available for the previous year, potential subgrantees will be required to provide financial statements audited by a CPA before signing a contract for a subgrantee award.

The MBO will establish a secure application portal, giving potential subgrantees a safe way to submit their documents, including those that contain sensitive financial information.

⁷³ For the sake of clarity, the option to reduce the amount of the performance bond by a commensurate amount as subgrantees meet the same service milestones described in 3) Reduction of LOC/Performance Bonds Upon Completion of Milestones may not be applied to a letter of credit or performance bond obtained under 4) Subgrantee Option for Alternative Initial LOC or Performance Bond Percentage

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- d. Detail how the Eligible Entity will require prospective subgrantees to submit business plans and related analyses that substantiate the sustainability of the proposed project.

During the main round, applicants will be required to complete a template pro forma provided by the MBO, accompanied by a budget narrative that explains the pro forma assumptions and details any anticipated financial challenges. At a minimum, the pro forma will require the applicant to provide details regarding anticipated capital expenditures (CapEx), operating expenditures (OpEx), number of projected subscribers (including unserved and underserved BSLs as well as any other potential subscribers), and service pricing.

The pro forma will span a seven-year time period (two years of historical and five years of projected financial data), allowing the MBO to evaluate the anticipated financial health of a given project. The MBO will review the pro forma to verify that, using reasonable assumptions (e.g., achievable take rate and acceptable pricing), the subgrantee demonstrates positive cash flow within the seven-year time horizon.

2.4.11.1 Subgrantee Selection Process Application Materials

Optional Attachment: As an optional attachment, submit application materials related to the BEAD subgrantee selection process, such as drafts of the Requests for Proposals for deployment projects, and narrative to crosswalk against requirements in the Deployment Subgrantee Qualifications section.

The MBO will develop a draft application for both prequalification and the main round, as well as a pro forma template to be completed by the potential subgrantee. The MBO plans to post these materials for public comment to ensure they reflect input from all relevant stakeholders.

2.4.12 Minimum Qualifications: Managerial Capacity

Text Box: Describe how the Eligible Entity will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for managerial capability as outlined on pages 73 – 74 of the BEAD NOFO. If the Eligible Entity opts to provide application materials related to the BEAD subgrantee selection process, the Eligible Entity response may reference those to outline alignment with requirements for this section. The response must:

- a. Detail how the Eligible Entity will require prospective subgrantees to submit resumes for key management personnel.

During the prequalification round, for all relevant financial, technical, and managerial key personnel, applicants will be required to submit one-page resumes as well as a narrative explanation of the given role and its responsibilities. Each resume should demonstrate a minimum of five years of relevant experience, and all key personnel should be employees of the firm, rather than contractors. Note that Personally Identifiable Information, enumerated in Montana Code Annotated 2023 2-6-1501, should be removed from resumes before submission.⁷⁴ The State of Montana will comply with the protection of personal information procedures outlined in Montana

⁷⁴ Montana Code Annotated 2023, 2-6-1501, https://leg.mt.gov/bills/mca/title_0020/chapter_0060/part_0150/section_0010/0020-0060-0150-0010.html

Commented [A3]: @Moriah Can we also make sure this was pasted in, as well as the responses to each of these sub-bullets a-d

code Annotated 2023 2-6-1502.⁷⁵

The MBO will confirm that all key personnel are directly employed by the firm and have at least five years of relevant experience.

- b. Detail how it will require prospective subgrantees to provide a narrative describing their readiness to manage their proposed project and ongoing services provided.

During the prequalification round, applicants must submit an organizational chart that includes all relevant personnel, including those detailed in 2.4.12 (a).

In addition, in narrative form, the applicant should provide evidence that the company has prior experience with telecommunications deployment and projects of a comparable scope, and details regarding their processes and approach to managing projects of a similar magnitude.

2.4.13 Minimum Qualifications: Technical Capability

Text Box: Describe how the Eligible Entity will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for technical capability as outlined on page 74 of the BEAD NOFO. If the Eligible Entity opts to provide application materials related to the BEAD subgrantee selection process, the Eligible Entity response may reference those to outline alignment with requirements for this section. The response must:

- a. Detail how the Eligible Entity will require prospective subgrantees to certify that they are technically qualified to complete and operate the Project and that they are capable of carrying out the funded activities in a competent manner, including that they will use an appropriately skilled and credentialed workforce.

During the prequalification and main rounds, applicants must certify that they have employed key personnel, including a chief technology officer, project engineer, and contractor oversight team, with the relevant certifications for deployment projects as mandated by state and federal law and reflective of industry best practices. In addition, they must certify that all contracted resources will possess the relevant and necessary skills, and detail in narrative their contractor selection process along with which skills, certifications, qualifications, or training programs will be required for each role. Applicants will be required to list the certifications for each role. A third-party reviewer will confirm that the certifications are appropriate and reflective of industry best practices (e.g., aligned with Occupational Safety and Health Administration [OSHA] and/or Building Industry Consulting Service International [BICSI] standards), as well as compliant with all relevant state and federal laws.

- b. Detail how the Eligible Entity will require prospective subgrantees to submit a network design, diagram, project costs, build-out timeline and milestones for project implementation, and a capital investment schedule evidencing complete build-out and the initiation of service within four years of the date on which the entity receives the subgrant, all certified by a professional engineer, stating that the proposed network can deliver broadband service that meets the requisite performance requirements to all locations served by the Project.

⁷⁵ Montana Code Annotated 2023, 2-6-1502, https://leg.mt.gov/bills/mca/title_0020/chapter_0060/part_0150/section_0020/0020-0060-0150-0020.html

In the main round, applicants must submit detailed plan elements, including network design in a shapefile, logical network diagram in a PDF, project costs in a spreadsheet template, and build-out timeline with milestones for project implementation. Applicants will submit the capital investment schedule as part of the pro forma template, which will be auto calculated in a separate tab in the same Excel workbook, as required by 2.4.11 (d).

A professional engineer will be required to certify that the proposed network can deliver broadband service that meets the requisite performance requirements to all locations served by the project within the required four-year deployment timeline.

The MBO will use a third-party contracted professional engineer to verify that the details in the submitted materials are reasonable and achievable within the prescribed four-year timeline.

2.4.14 Minimum Qualifications: Compliance with Applicable Laws

Text Box: Describe how the Eligible Entity will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for compliance with applicable laws as outlined on page 74 of the BEAD NOFO. If the Eligible Entity opts to provide application materials related to the BEAD subgrantee selection process, the

Eligible Entity response may reference those to outline alignment with requirements for this section. The response must:

- a. Detail how the Eligible Entity will require prospective subgrantees to demonstrate that they are capable of carrying out funded activities in a competent manner in compliance with all applicable federal, state, territorial, and local laws.

In their prequalification materials, applicants must provide a legal opinion that demonstrates the capability to carry out funded activities competently and in compliance with all applicable federal, state, and local laws. The opinion must also detail any past violations or pending court proceedings. The MBO will provide a model template for applicants.

The MBO will confirm that the legal opinion is provided by a lawyer in good standing and may potentially disqualify applicants that have committed past violations or who have pending court proceedings.

- b. Detail how the Eligible Entity will require prospective subgrantees to permit workers to create worker-led health and safety committees that management will meet with upon reasonable request.

During the prequalification round, applicants must certify via checkbox that they will permit workers to create worker-led health and safety committees that management will meet with upon reasonable request.

During the main round, applicants will also be required to upload any documentation demonstrating that they have communicated these rights to workers. The MBO may provide a model policy that the subgrantee can elect to adopt to satisfy this requirement. If the applicant fails to guarantee that it will permit its workers to create worker-led health and safety committees, the applicant will be disqualified.

2.4.15 Minimum Qualifications: Operational Capability

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Text Box: Describe how the Eligible Entity will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for operational capability as outlined on pages 74 – 75 of the BEAD NOFO. If the Eligible Entity opts to provide application materials related to the BEAD subgrantee selection process, the Eligible Entity response may reference those to outline alignment with requirements for this section. The response must:

- a. Detail how the Eligible Entity will require prospective subgrantees to certify that they possess the operational capability to qualify to complete and operate the Project.

During the main round, applicants will be required to certify via checkbox that they possess the operational capability to complete and operate the Project. To assess the subgrantee's operational capability, the MBO will review the materials provided in 2.4.12 (a-b).

- b. Detail how the Eligible Entity will require prospective subgrantees to submit a certification that they have provided a voice, broadband, and/or electric transmission or distribution service for at least two (2) consecutive years prior to the date of their application submission or that they are a wholly owned subsidiary of such an entity and attest to and specify the number of years the prospective subgrantee or its parent company has been operating.

As the BEAD NOFO indicates, applicants are not required to have operated for a prescribed amount of time, as new entrants are eligible to participate in the BEAD subgrantee process.⁷⁶

However, the MBO will require applicants to provide materials (i.e., Certificate of Good Standing from the Montana Secretary of State) and that document the length of time they have been doing business in the state, which will be verified by the MBO.

In addition, per the MBO's scoring criteria, applications submitted by providers that have operated for at least 10 years in the State will earn additional points depending on their overall length of time in operation.

- c. Detail how the Eligible Entity will require prospective subgrantees that have provided a voice and/or broadband service, to certify that it has timely filed Commission Form 477s and the Broadband DATA Act submission, if applicable, as required during this time period, and otherwise has complied with the Commission's rules and regulations.

During the prequalification round, potential subgrantees that have previously provided a voice and/or broadband service will be required to certify via checkbox that they have filed Commission Form 477s and the Broadband DATA Act submission, as applicable and required, and otherwise complied with the Commission's rules and regulations.

The MBO will cross-check the response with public records to confirm the dates of submission over the period of time that the applicant has been providing voice and/or broadband service.

As a reminder, if a potential subgrantee **has not** previously provided voice and/or broadband service, the potential subgrantee **will not be required** to certify via checkbox that they have filed Commission Form 477s and the Broadband DATA Act submission.

- d. Detail how the Eligible Entity will require prospective subgrantees that have operated only an electric transmission or distribution service, to submit qualified operating or financial reports, that it has filed with the relevant financial institution for the relevant time period

⁷⁶ BEAD NOFO, p. 74-75

along with a certification that the submission is a true and accurate copy of the reports that were provided to the relevant financial institution.

As 2.4.11 (a) applies to all prospective subgrantees, including those that have operated only an electric transmission or distribution service, the materials and standards required in 2.4.11 (a) are expected to satisfy this requirement.

- e. In reference to new entrants to the broadband market, detail how the Eligible Entity will require prospective subgrantees to provide evidence sufficient to demonstrate that the newly formed entity has obtained, through internal or external resources, sufficient operational capabilities.

New entrants will be required to submit documentation illustrating their minimum qualifications and be required to meet the same threshold as all other applicants.

The MBO will require applicants to provide materials that document the length of time they have been doing business in the state. The MBO will verify this by reviewing the Certificate of Good Standing from the Montana Secretary of State.

2.4.16 Minimum Qualifications: Ownership Information

Text Box: Describe how the Eligible Entity will ensure that any prospective subgrantee deploying network facilities meets the minimum qualifications for providing information on ownership as outlined on page 75 of the BEAD NOFO. If the Eligible Entity opts to provide application materials related to the BEAD subgrantee selection process, the Eligible Entity response may reference those to outline alignment with requirements for this section. The response must:

- a. Detail how the Eligible Entity will require prospective subgrantees to provide ownership information consistent with the requirements set forth in 47 C.F.R. § 1.2112(a)(1)-(7).

During the prequalification period, to satisfy this requirement, all applicants will be required to submit the relevant ownership information as required by 47 C.F.R. § 1.2112(a)(1)-(7). Each application to participate in competitive bidding (i.e., short-form application [see 47 CFR 1.2105]), or for a license, authorization, assignment, or transfer of control shall fully disclose the following:

- 1) List the real party or parties in interest in the applicant or application, including a complete disclosure of the identity and relationship of those persons or entities directly or indirectly owning or controlling (or both) the applicant;
- 2) List the name, address, and citizenship of any party holding 10 percent or more of stock in the applicant, whether voting or nonvoting, common, or preferred, including the specific amount of the interest or percentage held;
- 3) List, in the case of a limited partnership, the name, address and citizenship of each limited partner whose interest in the applicant is 10 percent or greater (as calculated according to the percentage of equity paid in or the percentage of distribution of profits and losses);
- 4) List, in the case of a general partnership, the name, address and citizenship of each partner, and the share or interest participation in the partnership;
- 5) List, in the case of a limited liability company, the name, address, and citizenship of each of its members whose interest in the applicant is 10 percent or greater;
- 6) List all parties holding indirect ownership interests in the applicant as determined by successive multiplication of the ownership percentages for each link in the vertical ownership chain, that equals 10 percent or more of the applicant, except that if the ownership percentage for an interest in any link in the chain exceeds 50 percent or

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represents actual control, it shall be treated and reported as if it were a 100 percent interest; and

- 7) List any FCC-regulated entity or applicant for an FCC license, in which the applicant or any of the parties identified in paragraphs (a)(1) through (a)(5) of this section, owns 10 percent or more of stock, whether voting or nonvoting, common, or preferred. This list must include a description of each such entity's principal business and a description of each such entity's relationship to the applicant (e.g., Company A owns 10 percent of Company B (the applicant) and 10 percent of Company C, then Companies A and C must be listed on Company B's application, where C is an FCC licensee and/or license applicant).

2.4.17 Minimum Qualifications: Public Funding Information

Text Box: Describe how the Eligible Entity will ensure any prospective subgrantee deploying network facilities meets the minimum qualifications for providing information on other public funding as outlined on pages 75 – 76 of the BEAD NOFO. If the Eligible Entity opts to provide application materials related to the BEAD subgrantee selection process, the Eligible Entity response may reference those to outline alignment with requirements for this section. The response must:

- a. Detail how it will require prospective subgrantees to disclose for itself and for its affiliates, any application the subgrantee or its affiliates have submitted or plan to submit, and every broadband deployment project that the subgrantee or its affiliates are undertaking or have committed to undertake at the time of the application using public funds.

In their prequalification materials, applicants must submit a list of all publicly funded (both state and federal) broadband deployment projects for which they have submitted or plan to submit an application, as well as any publicly funded broadband deployment project that the applicant or its affiliates are undertaking or plan to undertake.

During the prequalification round, the MBO will confirm the completion and validity of this information.

During the main round, when the potential subgrantee is applying for a particular project area(s), the MBO will consider these outstanding commitments, and assess the applicant's capacity to meet those commitments as well as its BEAD commitments, based on a holistic review of the application and the subgrantee's financial, managerial, technical, and operational capabilities.

- b. At a minimum, the Eligible Entity shall require the disclosure, for each broadband deployment project, of: (a) the speed and latency of the broadband service to be provided (as measured and/or reported under the applicable rules), (b) the geographic area to be covered, (c) the number of unserved and underserved locations committed to serve (or, if the commitment is to serve a percentage of locations within the specified geographic area, the relevant percentage), (d) the amount of public funding to be used, (e) the cost of service to the consumer, and (f) the matching commitment, if any, provided by the subgrantee or its affiliates.

In main round applications, for each broadband deployment project listed in 2.4.17 (a), applicants must submit: (a) the speed and latency of the broadband service to be provided (as measured and/or reported under the applicable rules), (b) identification of the geographic area to be covered, (c) the number of unserved and underserved locations committed to serve, (d) the amount of public funding to be used, (e) the cost of service to the consumer, and (f) the matching commitment

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provided by the subgrantee or its affiliates. In addition, for each broadband deployment project, applicants will be required to disclose the FCC location IDs of the BSLs they will serve.

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2.5 Non-Deployment Subgrantee Selection (Requirement 9)

2.5.1 Non-Deployment Activities: Fair, Open, and Competitive Subgrantee Selection Process

Text Box: Describe a fair, open, and competitive subgrantee selection process for eligible non-deployment activities. Responses must include the objective means, or process by which objective means will be developed, for selecting subgrantees for eligible non-deployment activities. If the Eligible Entity does not intend to subgrant for non-deployment activities, indicate such.

The State will revisit the non-deployment activities pending availability of funds after prioritizing unserved, underserved, and CAIs.

2.5.2 Non-Deployment Activities Initiatives

Text Box: Describe the Eligible Entity's plan for the following:

- a. How the Eligible Entity will employ preferences in selecting the type of non-deployment initiatives it intends to support using BEAD Program funds.
- b. How the non-deployment initiatives will address the needs of residents within the jurisdiction.
- c. The ways in which engagement with localities and stakeholders will inform the selection of eligible non-deployment activities.
- d. How the Eligible Entity will determine whether other uses of the funds might be more effective in achieving the BEAD Program's equity, access, and deployment goals.

The State will employ preferences for selection, resident impact, locality and stakeholder engagement, and effectiveness for non-deployment activities pending the availability of funds after prioritizing unserved, underserved, and CAIs.

2.5.3 Non-Deployment: Un- and Underserved Location Coverage

Text Box: Describe the Eligible Entity's plan to ensure coverage to all unserved and underserved locations prior to allocating funding to non-deployment activities.

The State will not use any funds for non-deployment activities until all unserved and underserved locations are served.

2.5.4 Non-Deployment: Subgrantee Qualifications

Text Box: Describe how the Eligible Entity will ensure prospective subgrantees meet the general qualifications outlined on pages 71 – 72 of the BEAD NOFO.

The State will revisit the non-deployment activities pending availability of funds after prioritizing unserved, underserved, and CAIs. Should the State have funds remaining for non-deployment activities, any process will ensure subgrantees possess the required qualifications.

2.6 Eligible Entity Implementation Activities (Requirement 10)

2.6.1 Eligible Entity Direct Implementation

Text Box: Describe any initiatives the Eligible Entity proposes to implement as the recipient without making a subgrant, and why it proposes that approach.

The State of Montana will directly implement both its challenge process and its subgrantee selection process.

The State will pursue direct implementation of its challenge process as it has already established the necessary infrastructure and resources to do so successfully and expeditiously.

Additionally, the State will administer its own subgrantee selection process, which will likely begin halfway through 2024. The State feels that given its past experience in managing federal and state grant programs, it is well-positioned to conduct this process.

The MBO will employ third-party providers as referenced in 2.3 and 2.4 directly to implement all processes on-time, fairly among potential subgrantee applicants. Additionally, a third-party provider will be utilized for project management responsibilities and at least one other third-party provider will be utilized for technical assistance, scoring of applications and support in managing negotiations across subgrantee applicants. Additional information on budget requirements can be found in section 2.14.1.

2.7 Labor Standards and Protection (Requirement 11)

2.7.1 Federal Labor and Employment Laws

Text Box: Describe the specific information that prospective subgrantees will be required to provide in their applications and how the Eligible Entity will weigh that information in its competitive subgrantee selection processes. Information from prospective subgrantees must demonstrate the following and must include information about contractors and subcontractors:

- a. Prospective subgrantees' record of past compliance with federal labor and employment laws, which:
 - i. Must address information on these entities' compliance with federal labor and employment laws on broadband deployment projects in the last three years;

During the prequalification round, the applicant must indicate via checkbox certification that it has complied with federal labor and employment laws on broadband deployment projects over the last three years. This may also be incorporated into the legal opinion required to satisfy 2.4.14 (a).

- ii. Should include a certification from an Officer/Director-level employee (or equivalent) of the prospective subgrantee evidencing consistent past compliance with federal labor and employment laws by the subgrantee, as well as all contractors and subcontractors; and;

During the prequalification round, an officer- or director-level employee or equivalent thereof must indicate via checkbox certification that the applicant, its contractors, and its subcontractors have consistently complied with federal labor and employment laws.

- iii. Should include written confirmation that the prospective subgrantee discloses any instances in which it or its contractors or subcontractors have been found to have violated laws such as the Occupational Safety and Health Act, the Fair Labor Standards Act, or any other applicable labor and employment laws for the preceding three years.

During the prequalification round, the applicant must indicate via checkbox certification that neither it, nor its contractors or subcontractors, have been found to have violated laws such as the Occupational Safety and Health Act, the Fair Labor Standards Act, or any other applicable labor and employment laws for the preceding three years. If the applicant indicates that it, its contractors and/or its subcontractors have violated any such laws, it must provide a detailed account in narrative form including any mitigating steps taken, accompanied by any relevant documentation. If the applicant indicates the latter, the MBO will review the details and potentially disqualify the applicant from participating in the main round.

- b. Prospective subgrantees' plans for ensuring compliance with federal labor and employment laws, which must address the following:
 - i. How the prospective subgrantee will ensure compliance in its own labor and employment practices, as well as that of its contractors and subcontractors, including:

During the prequalification round, the applicant must indicate via checkbox certification that it, its contractors, and its subcontractors, have existing labor and employment practices in place, and commit to annual recertification for the duration of BEAD implementation. The applicant should also submit a brief narrative detailing those practices and may also submit relevant supporting materials as PDF attachments.

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- 1) Information on applicable wage scales and wage and overtime payment practices for each class of employees expected to be involved directly in the physical construction of the broadband network; and

During the prequalification round, applicants must submit applicable wage scales, as well as wage and overtime payment practices for each class of employees expected to be involved directly in the physical construction of the broadband network.

- 2) How the subgrantee will ensure the implementation of workplace safety committees that are authorized to raise health and safety concerns in connection with the delivery of deployment projects.

During the prequalification round, the applicant must indicate via checkbox certification that it will implement support of workplace safety committees that are authorized to raise health and safety concerns in connection with the delivery of deployment projects and commit to annual recertification for the duration of BEAD implementation. The applicants will be asked to upload supporting materials that demonstrate compliance with this requirement.

2.7.2 Labor Standards and Protections Requirements

Text Box: Describe in detail whether the Eligible Entity will make mandatory for all subgrantees (including contractors and subcontractors) any of the following and, if required, how it will incorporate them into binding legal commitments in the subgrants it makes:

- a. Using a directly employed workforce, as opposed to a subcontracted workforce;
- b. Paying prevailing wages and benefits to workers, including compliance with Davis-Bacon and Service Contract Act requirements, where applicable, and collecting the required certified payrolls;
- c. Using project labor agreements (i.e., pre-hire collective bargaining agreements between unions and contractors that govern terms and conditions of employment for all workers on a construction project);
- d. Use of local hire provisions;
- e. Commitments to union neutrality;
- f. Use of labor peace agreements;
- g. Use of an appropriately skilled workforce (e.g., through Registered Apprenticeships or other joint labor-management training programs that serve all workers, particularly those underrepresented or historically excluded);
- h. Use of an appropriately credentialed workforce (i.e., satisfying requirements for appropriate and relevant pre-existing occupational training, certification, and licensure); and
- i. Taking steps to prevent the misclassification of workers.

The MBO understands the importance and value of an appropriately skilled and credentialed workforce. As articulated in 2.8.2, the MBO will require its potential subgrantees to submit a narrative detailing the steps they will take to ensure that all members of its project workforce have the appropriate credentials.

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The State has also taken into consideration the factors mentioned above in 2.7.2(b), (g), and (h) during the subgrantee selection process.

Although not mandatory, subgrantees are encouraged to provide prevailing wages and benefits to their workers through the scoring process. As stated in section 2.4.2(c) regarding fair labor practices, applicants that commit to offering prevailing wages (per the Davis-Bacon and Service Contract Act) to their BEAD project workforce will receive an additional 2 points. Any applicant that receives points for committing to provide prevailing wages will be required to make a binding legal commitment to do so if awarded a contract. In addition, the State plans to support the development of an appropriately skilled workforce with the encouragement to collaborate with the following apprenticeship programs: Montana Registered Apprenticeship Program and Accelerate Montana (further outlined in section 2.8.1(a)).

The State requires that subgrantees use an appropriately credentialed workforce that is vetted in the prequalification and main rounds of the application process, as noted in 2.4.13(a). This includes certifying that the credentials for key personnel and contracted roles comply with state and federal laws, reflect industry best practices (such as alignment with OSHA and/or BICSI standards), and undergo third-party verification of contracted role certifications.

2.8 Workforce Readiness (Requirement 12)

2.8.1 Equitable Workforce Development

Text Box: Describe how the Eligible Entity and their subgrantees will advance equitable workforce development and job quality objectives to develop a skilled, diverse workforce. At a minimum, this response must clearly provide each of the following, as outlined on page 59 of the BEAD NOFO:

BEAD will provide nearly \$43B in funding over the coming four years, constituting the largest single broadband investment in history.⁷⁷ This will occur in tandem with other substantial federal funding opportunities, such as the Enhanced Alternative Connect America Model (E-ACAM) and the Rural Digital Opportunity Fund.^{78,79} As all 50 states will be simultaneously eligible for these programs, this enormous influx of funding will likely strain an already tight national labor market by creating high demand for a broadband-capable workforce.

Labor market conditions in Montana are expected to follow this national trend, suggesting that absent of targeted action, the State could face a potential shortfall of broadband-capable workers. To anticipate upcoming workforce challenges, the MBO conducted an analysis to estimate the impact of upcoming broadband funding on the Montana labor market. The results of this analysis are presented in **Exhibit 38**.

⁷⁷ Broadband Equity Access and Deployment Program, <https://broadbandusa.ntia.doc.gov/funding-programs/broadband-equity-access-and-deployment-bead-program>

⁷⁸ FCC Announced E-ACAM Support to Expand Broadband to Rural Communities, <https://www.fcc.gov/document/fcc-announces-e-acam-support-expand-broadband-rural-communities>

⁷⁹ Rural Digital Opportunity Fund, <https://www.usac.org/high-cost/funds/rural-digital-opportunity-fund/>

Exhibit 38: Workforce growth in broadband occupations in Montana due to broadband funding⁸⁰

Top telecom occupations impacted by new construction CapEx ¹	Example roles, mapped to SOC codes	Potential jobs created from funding, # of jobs in peak demand year 2027	Forecast baseline jobs before funding ² , # of jobs in peak demand year (2027)	Growth in workforce from incremental jobs ³ , % in 2027
Electrical Power-Line Installers and Repairers	Aerial lineman	173	722	24%
Telecommunications Line Installers and Repairers	Locator, Underground / line crew, Splicer	129	443	29%
Construction Laborers	Laborer	115	7,603	2%
First-Line Supervisors of Construction Trades	Foreman	73	5,997	1%
Equipment Operators	Operating engineers	55	3,984	1%
First-Line Supervisors of Mechanics and Installers	Foreman, Top hand	54	2,757	2%
Electricians	--	39	3,644	1%
Office Clerks, General	--	30	12,596	0%
Heavy and Tractor-Trailer Truck Drivers	Trucking crew	28	9,024	0%
Construction Managers	--	25	2,693	1%

According to the MBO's analysis, deployment-related roles will likely see the greatest incremental job growth in electrical power-line installers (24% growth) and telecommunications line installers (29% growth). More modest increases are expected in a variety of other roles, such as construction laborers, equipment operators, first-line supervisors, and electricians. The analysis factored in demand for specified jobs in other industries, including construction, engineering services, power line communication, and other relevant industries.

As illustrated in **Exhibit 39**, demand for broadband workers is expected to peak in 2027 at the height of construction, creating opportunities for up to 1,000 additional telecommunications workers in Montana alone.

⁸⁰ Sources: Expert interviews, Preliminary estimates based on US Senate H.R. 3684, Bipartisan Infrastructure Law, and White House state-specific information, LightCast labor analytics, BEA; 1. Top occupations are selected based on the number of jobs generated from new construction CapEx spending in the year of highest forecast demand (>25 jobs in 2027). Each occupation is mapped against an associated SOC code; 2. Federal funding includes BEAD (~\$629M), CPF (~\$319M), and E-ACAM (~\$530M); 3. Growth is calculated by dividing potential jobs created by forecast baseline jobs in 2027; 4. This analysis only includes a demand projection for jobs related to broadband deployment, and not supply projections for available talent to fill those jobs.

Exhibit 39: Potential broadband job creation 2023-2031⁸¹

Potential jobs created by role and year, FTEs

Grouping	Description	2023	2024	2025	2026	2027	2028	2029	2030	2031
Installation, Maintenance, & Repair	Electrical Power-Line Installers and Repairers	10-20	50-60	>100	>100	>100	>100	70-80	20-30	1-10
	Telecommunications Line Installers and Repairers	1-10	40-50	80-90	>100	>100	>100	50-60	10-20	1-10
	First-Line Supervisors of Mechanics, Installers, and Repairers	1-10	10-20	30-40	50-60	50-60	40-50	20-30	1-10	1-10
	Helpers—Installation, Maintenance, and Repair Workers	1-10	1-10	1-10	10-20	10-20	10-20	1-10	1-10	0
	Mobile Heavy Equipment Mechanics, Except Engines	0	1-10	1-10	1-10	10-20	1-10	1-10	1-10	0
	Radio, Cellular, and Tower Equipment Installers and Repairers	1-10	1-10	10-20	10-20	10-20	10-20	1-10	1-10	0
Construction & Extraction	Construction Laborers	1-10	30-40	70-80	>100	>100	80-100	50-60	10-20	1-10
	First-Line Supervisors of Construction Trades and Extraction Workers	1-10	20-30	40-50	60-70	70-80	50-60	30-40	10-20	1-10
	Operating Engineers and Other Construction Equipment Operators	1-10	10-20	30-40	50-60	50-60	40-50	20-30	1-10	1-10
	Electricians	1-10	10-20	20-30	30-40	30-40	30-40	10-20	1-10	0
	Plumbers, Pipefitters, and Steamfitters	0	1-10	1-10	10-20	10-20	1-10	1-10	1-10	0
	Carpenters	0	1-10	1-10	10-20	10-20	1-10	1-10	1-10	0
Office & Administrative Support	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1-10	1-10	1-10	10-20	10-20	10-20	1-10	1-10	0
	Bookkeeping, Accounting, and Auditing Clerks	1-10	1-10	10-20	10-20	10-20	10-20	1-10	1-10	0
	Office Clerks, General	1-10	10-20	20-30	20-30	20-30	20-30	10-20	1-10	0
Management	Construction Managers	1-10	1-10	10-20	20-30	20-30	20-30	10-20	1-10	0
	General and Operations Managers	1-10	1-10	10-20	20-30	20-30	10-20	10-20	1-10	0
Architecture & Engineering	Civil Engineers	1-10	1-10	10-20	20-30	20-30	10-20	10-20	1-10	0
	Electrical Engineers	0	1-10	1-10	10-20	10-20	10-20	1-10	1-10	0
Business & Financial Operations	Project Management Specialists and Business Operations Specialists, All Other	1-10	1-10	10-20	10-20	10-20	10-20	1-10	1-10	0
	Accountants and Auditors	1-10	1-10	10-20	10-20	10-20	10-20	1-10	1-10	0
Transportation & Material Moving	Heavy and Tractor-Trailer Truck Drivers	1-10	1-10	10-20	20-30	20-30	20-30	10-20	1-10	0
	Laborers and Freight, Stock, and Material Movers, Hand	0	1-10	1-10	10-20	10-20	10-20	1-10	1-10	0
Computer & Mathematical	Software Developers and Software Quality Assurance Analysts and Testers	0	1-10	1-10	10-20	10-20	1-10	1-10	1-10	0
Totals		80-100	480-470	840-850	1290-1300	1380-1390	1090-1100	810-820	210-220	40-50
Top 24 SOC codes (>10 jobs created in 2027)		80-76	310-320	630-640	870-880	930-940	740-750	410-420	140-150	30-40
Other		30-40	150-160	200-310	410-420	440-450	350-360	190-200	60-70	10-20

The State acknowledges the need for a comprehensive workforce plan to meet these varying needs across roles, while also establishing opportunities to make jobs available to historically underrepresented groups. To achieve this objective, the State will collaborate with two of its flagship workforce development programs, the Montana Registered Apprenticeship Program and Accelerate Montana, detailed below in section 2.8.1 (a). The MBO will encourage subgrantees and Montanans to participate in these programs and intends to coordinate targeted outreach to help these stakeholders advance their impactful initiatives.

In addition, the State will utilize a number of strategies to ensure that relevant stakeholders, including subgrantees and Montanans seeking jobs, are aware of the resources available for support. These potential approaches are detailed in subsections 2.8.1 a-d below.

- A description of how the Eligible Entity will ensure that subgrantees support the development and use of a highly skilled workforce capable of carrying out work in a manner that is safe and effective;

As stated above, the upcoming investments in broadband development, including BEAD, RDOF, and E-ACAM, will create new jobs that require skilled broadband workers.

⁸¹ Federal funding includes BEAD (~\$629M), CPF (~\$319M), and E-ACAM (~\$530M). Note: Only includes SOC codes where 10+ jobs may be created in 2027. Source: LightCast labor analytics

To ensure that subgrantees support the creation and utilization of highly skilled workers that can carry out this work safely and effectively, the MBO intends to support and promote two of the state’s cornerstone programs, the Montana Registered Apprenticeship Program and Accelerate Montana.

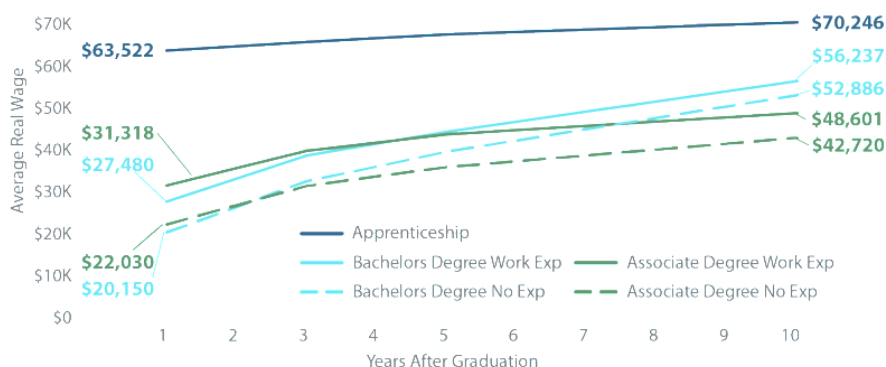
The Montana Registered Apprenticeship Program (MRAP)

MRAP, sponsored by the Montana Department of Labor and Industry is a program that places high school students into apprenticeships with employers in trades or skilled labor, providing both paid, on-the-job training and positioning them for future employment.⁸²

MRAP was designed to create a skilled labor force that can take advantage of Montana’s employment opportunities. Each year, around 6,000 Montanans graduate high school and enter the workforce without the credentials required for career advancement in fields such as construction, healthcare, manufacturing, and hospitality.⁸³ MRAP was designed in part to support these students, providing a clear on-ramp to gainful employment opportunities.

As noted in Montana’s Digital Opportunity Plan, completing this program translates into significant wage increases (**Exhibit 40**). While the program helps build the Montana workforce in particular, participants can also take their skills with them around the country—upon completing the program, students earn a certificate of completion, which is recognized in all 50 states.

Exhibit 40: 2022 Montana Labor Day Report ten-year wages by work experience⁸⁴



⁸² Montana Registered Apprenticeship Program, apprenticeship.mt.gov

⁸³ Montana Digital Opportunity Plan, https://connectmt.mt.gov/2023.06.27_Digital-Opportunity-Plan_WEB.pdf

⁸⁴ 2022 Montana Labor Day Report, Montana Department of Labor and Industry, https://lmi.mt.gov/_docs/Publications/LMI-Pubs/Labor-Market-Publications/LDR20221.pdf; Data source: MTDLI, OCHE, RMC, CC, UP, and apprenticeship graduate data wage match. Wages reflect average real wages reported in 2021 dollars using the CPI-U. Apprenticeship includes all degree types. Work experience defined as working at least 2 quarters per year in the 5 years prior to graduation. All apprenticeship completers have work experiences.

The program has grown since its inception, and Governor Gianforte has prioritized its expansion during his tenure. Recently, the Governor adjusted MRAP rules to increase the number of apprentices that mentors are allowed to accept—now each mentor can help train two apprentices. This has further catalyzed the program’s growth: 500 new apprentices joined MRAP in the first half of 2022, surpassing the registration totals recorded for the entirety of both 2019 and 2020.^{85,86} Additionally, the MRAP is partnering specifically with the University of Montana and Montana State University to create partnerships and programs to develop additional workforce programs.

There is a multitude of relevant apprenticeship programs currently implemented under MRAP (listed in **Exhibit 41**), and these initiatives are positioned for continued growth and development. In July 2023, the program received a grant of nearly \$350,000 from the U.S. Department of Labor as part of a broad federal initiative to build out apprenticeship programs nationally.⁸⁷ The MBO intends to coordinate with DLI to establish additional apprenticeship opportunities in both broadband installation and post-installation technical support, both of which will be required as internet access expands across the state.⁸⁸

Exhibit 41: 2023 Apprenticeships by Occupation⁸⁹

Occupation	Example Sponsors ⁹⁰	Active Apprenticeships Across All Sponsors
Electricians	<ul style="list-style-type: none"> DJ's Electric Inc. Liberty Electric, Inc. Rocky Mountain Electric Inc. 	1,209
Plumbers, Pipefitters, and Steamfitters	<ul style="list-style-type: none"> Williams Plumbing & Heating Inc. Central Plumbing & Heating Inc. Precision Plumbing & Heating, Inc. 	832
Carpenters	<ul style="list-style-type: none"> Dick Anderson Construction Jackson Contractor Group Southwest Mountain States Carpenters Training Fund 	221

⁸⁵ State of Montana Newsroom, Governor Gianforte Promotes Apprenticeship Growth in East Helena, https://news.mt.gov/Governors-Office/Governor_Gianforte_Promotes_Apprenticeship_Growth_in_East_Helena

⁸⁶ State of Montana Newsroom, Montana Adds 500+ Apprentices in the First Half of 2022, https://news.mt.gov/Governors-Office/Montana_Adds_500plus_Apprentices_in_First_Half_of_2022

⁸⁷ U.S. Department of Labor, Department of Labor Awards \$65M To Help States Increase, Expand Access to Registered Apprenticeships In High-Growth, High-Demand Industries <https://www.dol.gov/newsroom/releases/eta/eta20230719>

⁸⁸ Montana Digital Opportunity Plan, p. 13, https://connectmt.mt.gov/2023.06.27_Digital-Opportunity-Plan_WEB.pdf

⁸⁹ Montana’s Registered Apprenticeship, <https://apprenticeship.mt.gov/apprenticeship-sponsors>.

⁹⁰ The sponsors listed represent a subset of up to three example sponsors per occupation. Not all sponsors within each category are listed, except the categories where fewer than three sponsors were available. Further example sponsors can be found on <https://apprenticeship.mt.gov/apprenticeship-sponsors>

Electrical Power-Line Installers and Repairers	<ul style="list-style-type: none"> • Communication Resources • Beartooth Electric Cooperative, Inc. • Yellowstone Valley Electric Cooperative Inc. 	63
Operating Engineers and Other Construction Equipment Operators	<ul style="list-style-type: none"> • Montana Operating Engineers AGCJATT Local 400 • Knife River • Riverside Contracting, Inc. 	32
Telecommunications Line Installers and Repairers	<ul style="list-style-type: none"> • McCone Electric Cooperative Inc. • Tongue River Electric Cooperative, Inc. • Flathead Electric Cooperative 	22
Industrial Machinery Mechanics	<ul style="list-style-type: none"> • Aegion Energy Services • Talen Energy - Colstrip Power Plant JATC • Bureau of Reclamation - Great Plains 	21
Construction Laborers	<ul style="list-style-type: none"> • Laborers AGC Training Apprenticeship; Trust and Work Preparedness Trust for Montana • 3 Rivers Landworks LLC • RLC Enterprise Inc. 	18
Telecommunications Equipment Installers and Repairers, Except Line Installers	<ul style="list-style-type: none"> • Montana Electrical JATC • Communication Resources • Interbel Telephone Cooperative, Inc. 	7
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	<ul style="list-style-type: none"> • Bureau of Reclamation - Great Plains • Department of Defense - US Army Corps of Engineers - Fort Peck Project • Northwestern Energy JATC 	6
Administrative Services Managers	<ul style="list-style-type: none"> • Tyree Investment Group 	3
Power Distributors and Dispatchers	<ul style="list-style-type: none"> • Northwestern Energy JATC 	3
Power Plant Operators	<ul style="list-style-type: none"> • Bureau of Reclamation - Great Plains • Department of Defense - US Army Corps of Engineers - Fort Peck Project • Northwestern Energy JATC 	3
Bookkeeping, Accounting, and Auditing Clerks	<ul style="list-style-type: none"> • Allegiance Benefit Plan Management • Anderson Zurmuehlen & Company • Blackfoot Telephone Cooperative Inc. 	1

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Maintenance and repair Workers, General	<ul style="list-style-type: none"> • Barretts Minerals Inc. • Immanuel Lutheran Communities • Paris Gibson Museum of Art 	1
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Accelerate Montana (AMT)

AMT is a non-profit based at the University of Montana that offers programs and services designed to invest in Montana's workforce and build businesses' economic capacity.⁹¹ AMT's operating model is based on a symbiotic relationship between AMT, jobseekers, Montana's higher education system, and potential employers. AMT works directly with employers to determine their workforce needs (e.g., number of workers, skill set, location of employment), design training programs to meet those needs, and then coordinates with the higher education network to identify the ideal locations to host the trainings. AMT's model helps cultivate the right talent in the right places around the state, and attracts participants including highschoolers, recent college graduates, and individuals pursuing career changes.⁹²

AMT's core offerings include its Rapid Training Programs, which allow students to gain full licensure and accreditation for in-demand careers in six months or less. Since 2021, the program has been awarded nearly \$10M.⁹³ While around 1,700 students currently complete these programs every two years, some estimates suggest that the rapid training programs will train ~3,000 individuals by the end of 2024.^{94,95} AMT currently offers programs that are relevant to broadband workforce skills, including entry-level construction training, commercial driver's licensing, heavy equipment operation, fiber splicing, cyber security, and other technology-related programs. AMT's current training offerings and growing capacity suggest that the program could potentially accommodate the current projected increase in broadband worker demand in 2027 during BEAD funding rollout.⁹⁶

Rapid Training Programs are broadcast widely by AMT, which conducts outreach at tribal colleges in Montana and spreads awareness about its programs at high schools, two- and four-year colleges, and community & technical colleges. The organization also directs participants to the Montana Department of Labor (DLI), where they can access information about potential job and scholarship opportunities, some of which are funded by DLI, educational institutions, and employers themselves.⁹⁷ AMT also works closely with DLI to support trainees, connecting them with relevant wraparound services like childcare or transportation.

The MBO appreciates and understands the importance of supporting the BEAD program through a highly trained and skilled workforce. Montana is fortunate to have two mature workforce programs

⁹¹ Accelerate Montana, <https://acceleratemt.com/programs>

⁹² Paul Gladen, Accelerate Montana Executive Director, Interview, September 2023

⁹³ Paul Gladen, Accelerate Montana Executive Director, Interview, September 2023

⁹⁴ Accelerate MT Rapid Training Program, Proposal for Additional Funding, https://commerce.mt.gov/_shared/ARPA/docs/ETSWD/Accelerate-MT1.pdf

⁹⁵ Expert interviews

⁹⁶ Expert interviews

⁹⁷ Expert interviews

in Accelerate Montana and the Montana Registered Apprenticeship Program that the MBO plans to collaborate closely with to address planned and emergent workforce gaps. Additionally, the MBO may pursue additional partnerships with programs outside of Montana, especially if a shortfall of highly skilled workers becomes evident after in-state partnerships. Specifically, the MBO plans to execute the following strategies as part of its workforce readiness push:

- Develop and connect workforce-ready Montanans with skilled labor opportunities in broadband, helping the state meet its needs over the BEAD implementation horizon.
 - Communicate directly with subgrantees to encourage them to participate in Accelerate Montana and the Montana Registered Apprenticeship Program to design programs and recruit jobseekers who have the skills to work safely and effectively.
 - Collaborate with Accelerate Montana and the Montana Registered Apprenticeship Program to design new training and apprenticeship opportunities.
 - Create a centralized hub, hosted on ConnectMT, where potential employers and employees can go to be easily connected to these initiatives, as well as other resources.
 - Reach out to additional partnership opportunities with other state apprenticeship programs on an as needed basis.
- b. A description of how the Eligible Entity will develop and promote sector-based partnerships among employers, education and training providers, the public workforce system, unions and worker organizations, and community-based organizations that provide relevant training and wrap-around services to support workers to access and complete training (such as child care, transportation, mentorship, etc.), to attract, train, retain, or transition to meet local workforce needs and increase high-quality job opportunities;

The state of Montana’s main avenues to develop and promote sector-based partnerships among key stakeholders—including employers, education and training providers, the public workforce system, unions and worker organizations, and community-based organizations—are through the two flagship initiatives detailed above: the Montana Registered Apprenticeship Program (MRAP) and Accelerate Montana (AMT). Both have a proven track-record of fostering powerful industry collaboration through strong, direct lines of communication between employers and job seekers.

As noted in 2.8.1 (a), AMT works with potential employers to understand their unique workforce needs. Employers share the skills and training they need in their workers, and AMT creates tailored Rapid Training programs with that input. Depending on where workers are needed geographically, AMT can utilize its vast network of training partners, including community colleges and universities, across the state to determine the best place to host the training programs.

Similarly, MRAP works with employer sponsors to create bespoke opportunities that combine on-the-job training and classroom instruction. Potential employees can enroll in the registered apprenticeship program to learn alongside their future employers.

The MBO will coordinate with AMT and MRAP to create broadband-related training opportunities. The State will also encourage potential subgrantees to participate in these programs to meet their workforce needs.

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In addition to these flagship programs, the State offers ancillary or wraparound services, which provides targeted support for Montanans.⁹⁸ Subgrantees will be encouraged to promote these services with their workers or to provide wraparound services themselves.

The Department of Labor and Industry (DLI) offers several career development services that can help Montanans access job opportunities, receive training, prepare interview materials, and develop other necessary skills required for gainful employment. The Department of Public Health and Human Services (DPHHS) also offers a wide variety of services to meet the needs of Montanan workers, including childcare services, financial aid, and health care.

A summary of these programs can be found in **Exhibit 42**, and more detailed explanations can be found below.

To make relevant stakeholders aware, the MBO will promote these services during the BEAD planning and implementation phases on ConnectMT, a central website containing links to pertinent resources. The MBO will update the ConnectMT website during the several months after IPV2 approval and before accepting main round applications.

Exhibit 42: Support services provided by Montana government agencies

Department	Program	Description
Department of Labor and Industry	Career Resources	Portal for high school students that provides links and directions to apprenticeships and other career options. ⁹⁹ This will clarify broadband opportunities for prospective jobseekers.
	Montana Works	Connects Montanans to CareerOneStop, which helps with job search, resume support, connections to trainings, etc. ¹⁰⁰ As with Career Resources, this resource will help job-seeking Montanans to identify and prepare for careers in broadband services.
	HELP-Link	Connects Montana Medicaid recipients with individual coaches who help design career plans. ¹⁰¹
	SafetyFestMT	Collaboration with various businesses who donate their time to provide training opportunities to

⁹⁸ BEAD Initial Proposal Guidance Volume II, p. 66, https://broadbandusa.ntia.doc.gov/sites/default/files/2023-07/BEAD_Initial_Proposal_Guidance_Volumes_I_II.pdf

⁹⁹ Montana Department of Labor and Industry, Career Resources, <https://dli.mt.gov/resources/workers>

¹⁰⁰ Montana Works, <https://montanaworks.gov/>

¹⁰¹ Montana Works, HELP-Link, <https://montanaworks.gov/help-link/>

		Montanans. ¹⁰² Broadband jobseekers will be able to learn pertinent on-the-job skills and best practices.
Department of Public Health and Human Services	Behavioral Health System for Future Generations	Based on HB 872, which devotes \$300M to expanding behavioral health care and disabilities services in Montana. ¹⁰³ Broadband workers requiring health care and disabilities services will be able to utilize resources established through this investment.
	SNAP, TANF, LIHEAP, Health Coverage Assistance	Federal programs for food purchasing, temporary financial assistance, reducing energy bill costs, and healthcare assistance for low-income Montanans. ¹⁰⁴ These will help low-income broadband workers ensure basic needs are met.
	Child Care Resource and Referral Agencies	Resource that helps low-income families find and pay for childcare. ¹⁰⁵ Broadband workers requiring childcare may be able to leverage this resource to obtain it at reduced cost.
	Best Beginnings Child Care Scholarship Program	Child-care scholarships for low-income families. ¹⁰⁶ The children of broadband workers may be eligible.

Career Resources (DLI)

Career Resources serves as a centralized hub through which students, parents, educators, and job seekers can find relevant educational and career-related resources. For example, students and parents can find age-specific materials on skills planning, career awareness, and workbooks connecting educational topics to real-world jobs. Educators are provided resources to develop

¹⁰² Montana Department of Labor and Industry, SafetyFestMT, <https://safetyfestmt.dli.mt.gov/>

¹⁰³ Department of Public Health and Human Services, Behavioral Health System for Future Generations, <https://dphhs.mt.gov/FutureGenerations/Index>

¹⁰⁴ Department of Public Health and Human Services, SNAP, TANF, LIHEAP, and Health Coverage Assistance Application, <https://apply.mt.gov/>

¹⁰⁵ Department of Public Health and Human Services, Child Care Resource and Referral Agencies, <https://dphhs.mt.gov/ecfsd/childcare/childcareresourceandreferral>

¹⁰⁶ Department of Public Health and Human Services, Best Beginnings Child Care Scholarship Program, <https://dphhs.mt.gov/ecfsd/childcare/BestBeginningsScholarships>

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lessons geared towards career planning and awareness, while job seekers are given personal employment plans, job-seeking resources, and job search opportunities.¹⁰⁷

Montana Works (DLI)

Montana Works is a centralized resource run by the Montana DLI to aid those who are unemployed or seeking a career change. Workers can file for unemployment, access free occupational trainings and registered apprenticeships, and find available job postings and service locations. Employers can post job opportunities as well. This resource also connects workers to adjacent career resources, such as the HELP-link program and the American Rescue Plan Act Rapid Retraining Program.¹⁰⁸

HELP-Link (DLI)

HELP-Link is a Health and Economic Livelihood Partnership (HELP) Act workforce program designed for Montanans receiving Medicaid. Program participants are assigned to meet one-on-one with a qualified career coach to devise a career plan specific to the participant's needs. The program offers help in career coaching and exploration, employment and skill assessments, financial literacy, and other job-related skills.¹⁰⁹

SafetyFestMT (DLI)

SafetyFestMT is a collaboration between DLI and various Montana businesses and organizations. Employers provide free virtual and in-person training to potential employees in topics such as first aid, accident investigation, radon & asbestos, OSHA-approved construction, and more. The content taught at each SafetyFestMT meeting is unique to the participating providers and is applicable for both new workers and seasoned professionals.¹¹⁰

Behavioral Health System for Future Generations (DPHHS)

The Behavioral Health System for Future Generations is a \$300 million investment in Montana's behavioral health and developmental disabilities services systems. The funds can be used for initiatives related to behavioral health and developmental disabilities services, such as creating a comprehensive behavioral health system, community-based investment in services and their delivery, and acquisition of new or existing infrastructure to support those services.¹¹¹

SNAP, TANF, LIHEAP, Health Coverage Assistance (DPHHS)

DPHHS administers several federally funded assistance programs for low-income families and individuals, including the Supplemental Nutrition Assistance Program (SNAP), which supplements grocery budgets for low-income families; the Temporary Assistance for Needy Families Program (TANF), which provides monthly cash subsidies and additional services to low-income families with children; the Low Income Home Energy Assistance Program (LIHEAP), which subsidizes

¹⁰⁷ Montana Department of Labor and Industry, Career Resources, <https://dli.mt.gov/resources/workers>

¹⁰⁸ Montana Works, <https://montanaworks.gov/>

¹⁰⁹ Montana Works, HELP-Link, <https://montanaworks.gov/help-link/>

¹¹⁰ Montana Department of Labor and Industry, SafetyFestMT, <https://safetyfestmt.dli.mt.gov/>

¹¹¹ Department of Public Health and Human Services, Behavioral Health System for Future Generations, <https://dphhs.mt.gov/FutureGenerations/Index>

costs derived from energy bills, energy crises, weatherization, and energy-related home repairs; and Health Coverage Assistance, which offers health insurance through the federal marketplace and administers programs such as Medicaid and Healthy Montana Kids.¹¹²

Child Care Resource and Referral Agencies (DPHHS)

The Early Childhood Services Bureau contracts with regional agencies to provide various childcare services for families and general assistance to childcare providers. Child Care Research and Referral Agencies helps families find childcare at licensed and registered facilities regardless of income and offers financial assistance for qualifying low-income families. The program offers training and general assistance for childcare providers and offers remote learning resources to childcare providers through ChildCareTraining.org.¹¹³

DPHHS Best Beginnings Child Care Scholarship Program (DPHHS)

The Best Beginnings scholarship is offered to qualifying low-income families who are working and whose income is less than 185% of the Federal Poverty Level. Participants pay a co-pay, determined by income and family size that is no more than 9.0% of gross monthly income in exchange for child services from a licensed child-care center. The scholarship helps pay for care when parents are unavailable to care for their children themselves, e.g., during working hours, school or training hours, or other qualifying activities.¹¹⁴

- c. A description of how the Eligible Entity will plan to create equitable on-ramps into broadband-related jobs, maintain job quality for new and incumbent workers engaged in the sector; and continually engage with labor organizations and community-based organizations to maintain worker voice throughout the planning and implementation process; and

In developing the Digital Opportunity Plan (DOP), the State conducted multiple rounds of stakeholder outreach, which included targeted engagement with worker organizations, including labor organizations, entities that carry out workforce development programs, chambers of commerce, and economic development organizations. Examples of those organizations include the Department of Labor and Industry, the Montana Public Service Commission, and the Laborers' International Union of North America.¹¹⁵

Since then, the State has encouraged participation by the public, including by workers and worker organizations, by hosting monthly Communications Advisory Commission meetings and soliciting feedback on its website, ConnectMT. The MBO will continue to conduct outreach throughout the creation of its Initial Proposal and through the BEAD implementation process. Over the course of 2024, the State will also provide technical assistance to parties interested in participating in BEAD.

¹¹² Department of Public Health and Human Services, SNAP, TANF, LIHEAP, and Health Coverage Assistance Application, <https://apply.mt.gov/>

¹¹³ Department of Public Health and Human Services, Child Care Resource and Referral Agencies, <https://dphhs.mt.gov/ecfsd/childcare/childcareresourceandreferral>

¹¹⁴ Department of Public Health and Human Services, Best Beginnings Child Care Scholarship Program, <https://dphhs.mt.gov/ecfsd/childcare/BestBeginningsScholarships>

¹¹⁵ Montana Digital Opportunity Plan, p. 55-56

The MBO also plans to support job fairs hosted by community colleges and other educational institutions to ensure that Montanans are aware and able to take advantage of broadband job opportunities.

As noted earlier in this section, the State has identified AMT and MRAP as its two key partners. Importantly, 12.3% of Montanans are represented by unions, compared with 10.1% of workers in the United States. These data suggest that some portion of the broadband deployment workforce will likely be unionized. Through close collaboration with both entities, the MBO will incorporate and be responsive to the needs of workers, including some who are affiliated with unions or other worker organizations. For example, MRAP has a number of union sponsors, including the Montana Electrical Training Center, which serves the Montana chapter of the International Brotherhood of Electrical Workers (IBEW) and the National Electrical Contractors' Association (NECA). Both unions represent telecommunications workers.¹¹⁶

MBO's partnerships with AMT and MRAP will be critical to supporting the development of a broadband-ready workforce. It will also help establish equitable on-ramps to broadband jobs, as both programs actively create accessible training opportunities and connect participants with potential employers. The two programs engage in robust promotion through their partner institutions and other communications channels to make their opportunities broadly known to Montanans.

Throughout deployment projects, subgrantees must stay in compliance with federal and state labor laws to ensure job quality is maintained for new and incumbent workers.

- d. A description of how the Eligible Entity will ensure that the job opportunities created by the BEAD Program and other broadband funding programs are available to a diverse pool of workers.

The MBO plans to coordinate with a variety of local programs and state-led initiatives to ensure that broadband job opportunities are available to a diverse worker pool. Two of the MBO's main partners—Accelerate Montana and the Montana Department of Labor and Industry (DLI), which supports the Montana Registered Apprenticeship Program—drive existing efforts to help workers from underrepresented populations find job opportunities.

An overview of which population is served by which program is illustrated in **Exhibit 43**, and the efforts are explained in more detail below.

Exhibit 43: Montana DLI programs that support underrepresented populations

DLI Program	Description
Enhanced / Transitional Supervision Services	Participants: Parolees and offenders re-entering Montana communities, especially those needing additional supervision ¹¹⁷

¹¹⁶ Montana Registered Apprenticeship, Union Sponsors, <https://apprenticeship.mt.gov/union-sponsors>

¹¹⁷ Montana Department of Corrections, Enhanced/Transitional Supervision Services,

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	Support: Help formerly incarcerated Montanans gain employment in broadband deployment
Pre-Employment Transitional Services	Participants: Students aged 14 to 21 with disabilities transitioning to post-secondary education or employment ¹¹⁸ Function: Serve as an on-ramp to students seeking employment in broadband careers
Vocational Rehabilitation and Blind Services (VRBS)	Participants: People who are blind or have disabilities ¹¹⁹ Function: Provide necessary resources to blind or disabled Montanans seeking employment in broadband careers
Extended Employment	Participant: VRBS participants with severe disabilities requiring continued help ¹²⁰ Function: Provide on-ramp to workers with serious disabilities for continued employment in broadband careers
Senior Community Service Employment Program	Participants: Low-income adults over the age of 55 ^{121,122} Function: Help older Montanans seek careers in broadband deployment or maintenance
Jobs for Veterans State Grant	Participants: Veterans with and without disabilities ^{123,124} Function: Help veterans gain necessary skills and prepare application materials for broadband careers

Enhanced / Transitional Supervision Services (ETSS)

The ETSS provides job development services to individuals on parole or probation who require help re-integrating into Montana communities, as well as to those who are noncompliant with

¹¹⁸ Montana Department of Public Health and Human Services, Pre-Employment Transition Services, <https://dphhs.mt.gov/detd/preets/>

¹¹⁹ Montana Department of Public Health and Human Services, Vocational Rehabilitation and Blind Services, <https://dphhs.mt.gov/detd/vocrehab/>

¹²⁰ Montana Department of Public Health and Human Services, Extended Employment, <https://dphhs.mt.gov/detd/vocrehab/VRBSExtendedEmployment>

¹²¹ Easterseals Goodwill, Senior Community Service Employment Program, <https://www.esgw.org/scsep/>

¹²² Montana Department of Labor and Industry, SCSEP Policy, https://wsd.dli.mt.gov/_docs/wsd-policy/scsep-policy-.pdf

¹²³ Montana Department of Labor and Industry, Veteran Services, <https://wsd.dli.mt.gov/job-seeker/veteran-services/>

¹²⁴ Jobs for Veterans State Grants Program, <https://wioaplans.ed.gov/node/78516>

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supervision and require additional monitoring. The program is coordinated by the Programs and Facilities Bureau of the Montana Department of Corrections and is currently administered across 20 service areas. Formerly incarcerated individuals are provided services that include daily check-ins, evidence-based cognitive behavioral-based treatment, family services, housing, financial planning, and educational reentry services. These individuals are also given access to job development services such as resume and interview preparation, application assistance, and referrals.

Pre-Employment Transition Services

Pre-Employment Transition Services (Pre-ETS) are coordinated by the Montana DPHHS for students with disabilities ages 14 -21. These services are aimed at providing a gradual transition from school to further education or employment. Pre-ETS services include work-based learning experiences and readiness training, counseling in self-advocacy, and career planning. These services are administered by the Vocational Rehabilitation and Blind Services of the Montana DPHHS. Students can participate in pre-ETS by scheduling an appointment at their county's Vocational Rehabilitation Office.

Vocational Rehabilitation and Blind Services (VRBS)

These services, overseen by the Montana DPHHS, combine general and blind vocational rehabilitation programs, helping people with disabilities pursue job searches and advance their careers. Individuals of all ages seeking employment are paired with a counselor to assess potential careers based on the nature of their disabilities and general interests. Upon establishing employment, periodic check ins are conducted to ensure that both participants and employers are satisfied. After 90 days of successful employment, individuals phase out of the program. Interested parties can sign up for the program by contacting their local county VRBS office or the central office in Helena.

Extended Employment

Extended Employment services are available only to VRBS participants with the most significant needs and are designed to provide adequate support after the completion of the 90-day VRBS program. Support for eligible participants is continuous to ensure long-term job retention and is administered on a case-by-case basis.

Senior Community Service Employment Program (SCSEP)

SCSEP provides on-the-job employment services to low-income adults over the age of 55. Participants are given the opportunity to gain on-the-job skills and experience at local non-profit and government agencies in preparation for eventual employment in the broader workforce. The program also offers support drafting resumes, as well as searching and preparing for jobs. The program is administered by Easterseals-Goodwill and overseen by the Montana DLI.

Jobs for Veterans State Grant

This program assists veterans with overcoming hurdles to employment, in coordination with federally funded veterans' services. Veterans and eligible participants will receive priority over non-veterans at Montana Job Service Centers when receiving employment, training, and job placement

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services. Staff at said centers will support veterans by planning job fairs, coordinating employer outreach, coordinating with unions, apprenticeship programs, and other organizations to promote the hiring and training of veterans, promoting credentialing and licensing opportunities for veterans, among other services.

In addition to the DLI programs above, which serve targeted populations, DLI also oversees the Montana State Workforce Innovation Board (SWIB), which advises the Governor on how to optimize workforce development and maximize the state's education, training, and employment resources.¹²⁵

Moreover, Accelerate Montana has existing programs that aim to support women and Native women. These include Women's Entrepreneurship and Leadership Lab (W.E.L.L.), which offers educational and entrepreneurial services to Montana women.¹²⁶ An effort nested under this program, W.E.L.L. Native Women's Launch, provides courses in business ownership to Native women through the University of Montana, Salish Kootenai College, and the Blackfoot Community College.¹²⁷

The MBO can target outreach to underrepresented populations, including women, Native women, people with disabilities, formerly incarcerated people, and low-income people, through strategic collaboration with both DLI and Accelerate Montana. In addition to coordinating outreach through these entities, MBO plans to utilize a central website, housed on ConnectMT, where job seekers can go to explore the resources that best serve them. Lastly, the MBO may form additional partnerships with programs and groups outside of Montana on an as-needed basis as deployment is underway and will keep outreach to underrepresented populations as a key consideration of programs to partner with.

2.8.2 Workforce Readiness: Appropriately Skilled and Credentialed Workforce

Text Box: Describe the information that will be required of prospective subgrantees to demonstrate a plan for ensuring that the project workforce (including contractors and subcontractors) will be an appropriately skilled and credentialed workforce. These plans should include the following:

According to data from the Bureau of Labor Statistics, in 2022, an average of 12.3% of employees were represented by a union in Montana, compared with an average of 10.1% across the United States.¹²⁸ As such, the MBO can expect that a nontrivial amount of subgrantees will likely have unionized workforces, reducing the need for additional scrutiny. Independent of unionization status, MBO will review applicants' workforce plans to ensure that they are sufficiently detailed and operationally feasible and may request review by independent auditors as needed.

Applicants for Montana BEAD funding will be required to submit a plan demonstrating how they will ensure that they hire an appropriately skilled and credential workforce. The MBO will strongly encourage applicants to incorporate collaboration with AMT and/or MRAP into their strategies for

¹²⁵Montana Department of Labor and Industry, State Workforce Innovation Board, <https://swib.mt.gov/>

¹²⁶ Women's Entrepreneurship and Leadership Lab, <https://wellwbc.org/about>

¹²⁷ W.E.L.L. Native Women Launch Program, <https://wellwbc.org/native-women-launch>

creating, supporting, and recruiting a skilled workforce—subgrantees should include this information in 2.8.2 (a). Overall, subgrantee workforce plans must detail several items as described in 2.8.2(a-e) below.

- a. The ways in which the prospective subgrantee will ensure the use of an appropriately skilled workforce, e.g., through Registered Apprenticeships or other joint labor-management training programs that serve all workers;

During the main round, applicants must provide a narrative detailing their plans to recruit qualified applicants. In the narrative, applicants should note any registered apprenticeship or labor management programs in which they participate. Applicants will be encouraged to recruit Montanans who have participated in the state's flagship workforce readiness initiatives: Accelerate Montana and the Montana Registered Apprenticeship Program. More detail about those two programs can be found in 2.8.1.

- b. The steps that will be taken to ensure that all members of the project workforce will have appropriate credentials, e.g., appropriate, and relevant pre-existing occupational training, certification, and licensure;

During the main round, potential subgrantees must provide a narrative that details the steps they will take to ensure that all members of its project workforce have the appropriate credentials. The applicant should also note any on-the-job training programs it offers.

- c. Whether the workforce is unionized;

During the main round, the applicant should indicate via checkbox certification whether or not its workforce is unionized.

- d. Whether the workforce will be directly employed or whether work will be performed by a subcontracted workforce; and

In its main round application, the applicant should indicate via narrative response whether its workforce will be directly employed, subcontracted, or a combination of the two.

- e. The entities that the proposed subgrantee plans to contract and subcontract with in carrying out the proposed work.

If the applicant plans to utilize contracted or subcontracted labor to carry out the proposed work, it must provide a narrative response detailing which entities it plans to engage.

If the project workforce or any subgrantee's, contractor's, or subcontractor's workforce is not unionized, the subgrantee must also provide with respect to the non-union workforce:

- a. The job titles and size of the workforce (FTE positions, including for contractors and subcontractors) required to carry out the proposed work over the course of the project and the entity that will employ each portion of the workforce;

In main round materials, the subgrantee must submit a comprehensive list which details the size of its workforce, the job titles of its workers, and the entity that will employ each portion of the workforce (e.g., the applicant, contractors, subcontractors).

- b. For each job title required to carry out the proposed work (including contractors and subcontractors), a description of:

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- i. Safety training, certification, and/or licensure requirements (e.g., OSHA 10, OSHA 30, confined space, traffic control, or other training as relevant depending on title and work), including whether there is a robust in-house training program with established requirements tied to certifications, titles; and

During the main round, the potential subgrantee must indicate any on-the-job training programs it offers and/or requires, as well as its plans to ensure that all workers obtain the relevant certifications for their given positions.

- ii. Information on the professional certifications and/or in-house training in place to ensure that deployment is done at a high standard.

In the main round application, the potential subgrantee must articulate any on-the-job training programs it offers or intends to offer or require, as well as which professional certifications are in place to ensure that project deployment is completed at a high standard.

2.9 Minority Business Enterprises (MBEs)/ Women's Business Enterprises (WBEs)/ Labor Surplus Firms Inclusion (Requirement 13)

2.9.1 MBEs/WBEs/Labor Surplus Firms Inclusion

Text Box: Describe the process, strategy, and the data tracking method(s) the Eligible Entity will implement to ensure that minority businesses, women-owned business enterprises (WBEs), and labor surplus area firms are recruited, used, and retained when possible.

The State of Montana is committed to recruiting, using, and retaining Minority Business Enterprises (MBEs), Women's Business Enterprises (WBEs), and Small Business Enterprises (SBEs) during the BEAD planning and implementation processes. As of 2018, there are 4,000+ minority-owned businesses in Montana, making up approximately 4% of all firms located in the State¹²⁹. These firms employ 10,000+ people (approximately 0.9% of the state). As Montana does not have any labor surplus areas, the State will not prioritize policies designed to identify and encourage applications from labor surplus area firms at this time.¹³⁰

The MBO will commit to taking each of the six steps prescribed on p. 70 of the NTIA BEAD Initial Proposal Guidance:

1. Place qualified small and minority businesses and women's business enterprises on solicitation lists;
2. Ensure that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
3. Divide total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
4. Establish delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
5. Use the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and
6. Require subgrantees to take these affirmative steps as they relate to its subcontractors.

In addition, to achieve its goal of including MBEs, WBEs, and SBEs throughout the BEAD program, the MBO has structured the subgrantee process to reduce potential barriers to entry.

The MBO has made deliberate design choices in crafting its subgrantee process that will encourage the participation of qualified MBE, WBE, and SBE firms. By establishing a prequalification period

¹²⁹ 2018 State of Minority Business, Montana. Minority Business Development Agency, U.S. Department of Commerce. <https://www.mbda.gov/sites/default/files/2022-09/Montana%20-%20State%20Fact%20Sheets%20-%20FINAL.pdf>

¹³⁰ Department of Labor, Labor Surplus Area Fiscal Year 2024, <https://www.dol.gov/agencies/eta/lsa>; Note that the MBO will monitor the U.S. Department of Labor's annual list of labor surplus areas. If any such areas are designated in Montana, the MBO will adjust its efforts to engage relevant labor surplus area firms.

ahead of the main application round, the MBO hopes to reduce the administrative burden on potential subgrantees. In effect, allowing for prequalification extends the application time, as materials can be compiled and submitted over a longer horizon. This could be particularly impactful for these businesses, which may be smaller and/or more resource constrained.

As detailed in 2.4.6, the MBO considered the pros and cons of several different approaches to project area definition. Ultimately, the State elected to allow providers to draw their own project areas. One of the benefits was that this allotted an important level of freedom and flexibility to applicants, allowing providers to take on manageable projects and optimize their business cases. The MBO hopes that this will lower potential barriers to entry.

In addition to these subgrantee process design choices, the State will also conduct targeted outreach to increase participation by MBEs, WBEs, and SBEs as subgrantees and as subgrantee contractors or subcontractors.

To that end, for data tracking, the MBO will first compile a list of relevant businesses through collaboration with various Montana organizations, detailed in the list of partner organizations below. The MBO will also coordinate with organizations such as the U.S. Small Business Administration (SBA) and the Minority Business Development Agency of the Department of Commerce (MBDA). These relevant businesses will be tracked in a spreadsheet or similar file. SBA and MBDA offer a variety of resources that support the development of small and minority-owned businesses, respectively.^{131, 132}

By working with these organizations, the MBO aims to develop a comprehensive solicitation list of businesses involved directly in broadband deployment, as well as businesses that could serve as subcontractors to broadband deployment, in areas such as construction and transportation. To spread awareness and encourage participation in BEAD, the MBO will conduct communications directly through avenues including email, as well as through targeted outreach at events like the Montana Women in Business Summit.¹³³

The MBO will also offer technical assistance to BEAD applicants to maximize participation and make the BEAD program more accessible. The MBO will engage with qualified firms that are interested in applying for BEAD funding to explain the application process, including answering questions regarding required materials and documentation, the scoring rubric, and other components.

The MBO will ask potential subgrantee applicants to self-report if they are a relevant business during the selection process and the data will be tracked in a relevant spreadsheet or similar file. During selection of final subgrantees, the MBO will assess which organizations may be a relevant business to be highlighted during the final award announcements on the ConnectMT website or similar public interface.

¹³¹ U.S. Small Business Administration, <https://www.sba.gov/>

¹³² U.S. Minority Business Development Agency, <https://www.mbda.gov/grants>

¹³³ Montana Chamber of Commerce, Women in Business Submit, <https://www.montanachamber.com/women-in-business-summit-iwd-power-lunch/>

Stakeholder engagement partner organizations

*The Montana Department of Transportation (MDT) Disadvantaged Business Enterprise (DBE) Program*¹³⁴

The MDT Office of Civil Rights administers the DBE program, which focuses on driving participation of women and minority-owned businesses in transportation contracts. It provides business assistance to companies in the transportation industry and offers services such as business skill training and networking opportunities.

*Montana Women's Business Center (WBC)*¹³⁵

The Montana WBC is one of over 150 women's business centers located across the United States. The WBC provides tools that help women found, grow, and sustain businesses in the state of Montana, including but not limited to confidential counseling, online and in-person training resources, and networking services such as monthly meetups and business tours. The program is partially funded through a cooperative agreement with the U.S. Small Business Administration.

*Montana Economic Developers Association (MEDA)*¹³⁶

MEDA is a non-profit organization that focuses on business development, creation, expansion, and talent retention in pursuit of growing Montana's economy. The organization holds various events and trainings and oversees regional development corporations, through which members can participate in meetups to source support for their businesses and exchange ideas and best practices.

*The Office of Indian Country Economic Development (OICED) Program*¹³⁷

The OICED program consolidates resources available to Native American businesses and Tribal governments in the state of Montana. The program coordinates activities with various federal agencies, such as the U.S. Small Business Administration.

*The Montana Women in Business Summit (WBS)*¹³⁸

The Montana Chamber of Commerce arranges an annual meeting of the Montana WBS, which aims to create a community within the state for women entrepreneurs and business owners. The annual meeting focuses on highlighting women-led business initiatives, strengthening community engagement, and attracting additional talent.

¹³⁴ Montana Department of Transportation DBE & SBE - Certification, <https://www.mdt.mt.gov/business/contracting/civil/certification.aspx>

¹³⁵ Montana Women's Business Center, <https://www.prosperamt.org/womens-business-center/overview>

¹³⁶ Montana Economic Developers Association - About Us, <https://www.medamembers.org/about-us>

¹³⁷ Office of Indian Country Economic Development, <https://business.mt.gov/Business-Assistance/Indian-Country-Programs/>

¹³⁸ Montana Chamber of Commerce, Women in Business Submit, <https://www.montanachamber.com/women-in-business-summit-iwd-power-lunch/>

2.9.2 MBE and WBE Inclusion

Check Box: Certify that the Eligible Entity will take all necessary affirmative steps to ensure minority businesses, women's business enterprises, and labor surplus area firms are used when possible, including the following outlined on pages 88 – 89 of the BEAD NOFO:

- a. Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- b. Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- c. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- d. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
- e. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and
- f. Requiring subgrantees to take the affirmative steps listed above as it relates to subcontractors.

The MBO will certify via check box.

2.10 Cost and Barrier Reduction (Requirement 14)

2.10.1 Cost and Barrier Reduction

Text Box: Identify steps that the Eligible Entity has taken or will take to reduce costs and barriers to deployment. Responses may include but not be limited to the following:

Montana is committed to efficiently using BEAD funding to ensure that all unserved and as many underserved locations as possible receive service. As part of a multi-pronged effort to achieve this objective, the MBO plans to utilize existing policies and implement new measures that both reduce the costs of broadband installation and lessen the burden on broadband providers.

Two of the most impactful steps that the State has already taken include adopting a dig-once policy and issuing simplified right-of-way and permitting guidance. In 2021, Montana passed House Bill (HB) 494, which gave the Montana Department of Transportation (MDT) the authority to collect information on all entities working on broadband deployment in the state and notify them of construction projects that can be utilized for broadband installation.¹³⁹ HB 494 also gave MDT discretion to adopt administrative rules necessary to implement these policies.

The State legislature also passed Senate Bill (SB) 521, which clarified existing right-of-way agreements.¹⁴⁰ To reduce the regulatory burden associated with broadband installation and align with SB 521, MDT enacted a series of regulations [Administrative Rules of Montana (ARM) 18.7.219 and 18.7.220] that clarify which right-of-way agreements are required for broadband installations and streamline permitting. The regulations streamline permitting by providing clear requirements and guidelines for applicants to obtain a right-of-way use agreement.^{141,142}

Building on these and other initiatives, the State will take the steps discussed in this section to promote the use of existing infrastructure and dig-once policies, and streamline permitting, access to poles, conduits and easements, and rights-of-way to reduce the costs and barriers to broadband deployment.

a. Promoting the use of existing infrastructure;

MDT has policies in place that promote the use of existing infrastructure in broadband deployment. The MDT Right-of-Way Operations Manual states that new utility infrastructure should be built only if existing infrastructure cannot be used. In cases where new conduit needs to be laid, providers are required by MDT to include additional capacity to account for future increases in usage.¹⁴³ MDT policies promoting the use of existing infrastructure will allow broadband providers to reduce installation costs and expedite timelines, while policies requiring additional conduit will facilitate future broadband expansion. The State will encourage its subgrantees to follow these policies during BEAD implementation.

¹³⁹Montana House Bill 494, <https://leg.mt.gov/bills/2021/billpdf/HBo494.pdf>

¹⁴⁰ Montana Senate Bill 521, <https://leg.mt.gov/bills/2023/billpdf/SBo521.pdf>

¹⁴¹ Administrative Rules of Montana 18.7.219, <https://rules.mt.gov/gateway/RuleNo.asp?RN=18%2E7%2E219>

¹⁴² Administrative Rules of Montana 18.7.220, <https://rules.mt.gov/gateway/RuleNo.asp?RN=18%2E7%2E220>

¹⁴³ Administrative Rules of Montana 18.7.227, <https://rules.mt.gov/gateway/RuleNo.asp?RN=18%2E7%2E227>

The MBO will also proactively identify other opportunities to use existing infrastructure. For example, the State will explore the potential use of communications towers operated by the First Responder Network Authority (FirstNet) in Montana.¹⁴⁴ Since 2014, FirstNet has been coordinating with Montana officials to build out the State's public safety broadband network, supported by funding from the State and Local Implementation Grant Program.¹⁴⁵ The network currently has over 200 sites in Montana, and the Montana Department of Justice is seeking additional funding to further increase FirstNet capacity in the state.¹⁴⁶

b. Promoting and adopting dig-once policies;

Dig-once policies are one of the most powerful tools for reducing broadband deployment costs. According to the Federal Highway Association, "90% of the cost of deploying broadband" is incurred "when the work requires significant excavation of the roadway. Coordinating highway construction projects with the installation of broadband facilities may save on costs incurred by repeated excavation in areas where the entire ROW is paved or developed."¹⁴⁷

Montana implemented a dig-once policy for state highways in 2021 through HB 494.¹⁴⁸ This policy empowers the Montana Department of Transportation (MDT) to maintain a comprehensive list of broadband deployment entities operating within the state. It also enables MDT to notify them about highway construction projects that offer suitable opportunities for the installation of broadband conduit. In addition to this, MDT has taken further steps to streamline and enhance the process for potential applicants, aiming to reduce barriers to broadband deployment. MDT has introduced a centralized Interstate Permitting website that incorporates a dedicated Broadband Registry. Through this platform, applicants for broadband deployment projects will receive monthly notifications regarding upcoming state highway projects. Moreover, applicants are encouraged to cross-reference existing permits and MDT's Tentative Construction Plan (TCP), which outlines construction projects scheduled for 2023-2027.¹⁴⁹ These cross-references further help identify opportunities for collaborative broadband installation alongside upcoming projects. Existing permits can be accessed through the Utility Permitting Administration System (UPAS), an online permitting system for utility projects.¹⁵⁰

The State of Montana is committed to leveraging this resource to remove unnecessary barriers to expedite permitting applications for broadband deployment. It will strongly encourage MDT to explore ways to maximize the effectiveness of both the Interstate Permitting website and HB 494, aiming to further reduce costs for broadband providers wherever feasible.

c. Streamlining permitting processes;

As Montana anticipates the increased permitting needs required by BEAD installation, the State has taken steps to simplify the permitting process and clarify requirements and expectations for

¹⁴⁴ FirstNet About Us, <https://firstnet.gov/about>

¹⁴⁵ Montana SLIGP and FirstNet, <https://sitsd.mt.gov/About-Us/Public-Safety/SLIGP-FirstNet>

¹⁴⁶ Expert interviews

¹⁴⁷ Policy Brief: Minimizing Excavation Through Coordination, Federal Highway Association Office of Transportation Policy Studies, https://www.fhwa.dot.gov/policy/otps/policy_brief_dig_once.pdf

¹⁴⁸ Montana House Bill 494, <https://leg.mt.gov/bills/2021/billpdf/HB0494.pdf>

¹⁴⁹ Montana Department of Transportation, Interstate Permitting, <https://www.mdt.mt.gov/interstatepermitting/>

¹⁵⁰ Montana Utility Permitting Application System, <https://www.mdt.mt.gov/upas/>

applications. Montana has adopted the Utility Permitting Administration System (UPAS), an online permitting system through which applicants can submit permits for new utility projects. The establishment of this system is in line with NTIA guidance, which states that Eligible Entities should create online systems that facilitate application submission during the permitting process.^{151,152}

Furthermore, the State has consolidated essential permitting information on the MDT's Interstate Permitting website to simplify and facilitate the permitting process required for broadband deployment. This platform enables applicants to ascertain whether their project falls under the category of a private or public utility and lists the permits that applicants must submit under the UPAS system depending on their designation. This centralized portal also contains relevant information about statutes, manuals, and other resources that can aid applicants in properly applying for broadband permitting.¹⁵³

In further alignment with NTIA guidance, Montana has worked to clarify permit costs where possible. For use of the UPAS system, applicants are charged a \$100 electronic convenience fee that covers the direct costs associated with application data storage and system management.¹⁵⁴ The State also assesses a \$100 application fee for right-of-way agreement applications for projects on interstate highway systems.¹⁵⁵

The Department of Natural Resources and Conservation (DNRC) has implemented measures to streamline the process to obtain necessary permits. For all projects related to groundwater, the DNRC uses a joint application, allowing applicants to apply to multiple required groundwater permits, at local, state, and federal levels through a single application. The joint application committee is committed to further simplifying and digitizing this application within the next five years and plans to give ample notice to other departments receiving the joint application to ensure preparedness. The turnaround time for most DNRC permits is within two weeks, with utility projects typically prioritized, making it a quick approval process.

To streamline permitting further, the MBO will provide applicants with relevant permitting information at the state, county, and municipal levels on ConnectMT, a website with relevant broadband information.

d. Streamlining cost-effective access to poles, conduits, easements; and

Montana has policies in place that facilitate the use of specific types of infrastructure. For example, the MDT outlines access agreements for construction projects on railroad property.¹⁵⁶ In the case of an existing highway easement, the MDT Utilities Section coordinates with the party that owns the railroad to draft a Flagging Agreement, a letter agreement outlining the proposed project and required provisions. This removes the need for a new Construction and Maintenance Agreement,

¹⁵¹ BEAD Best Practices Case Studies, https://broadbandusa.ntia.gov/sites/default/files/2023-03/Permitting_Best_Practices_Case_Studies.pdf

¹⁵² BEAD Permitting 101, https://broadbandusa.ntia.doc.gov/sites/default/files/2022-12/IFA_Permitting_101_PDF.pdf

¹⁵³ Ibid

¹⁵⁴ Montana UPAS Questions and Answers, <https://www.mdt.mt.gov/upas/qa.aspx>

¹⁵⁵ ARM 18.7.219, <https://rules.mt.gov/gateway/RuleNo.asp?RN=18%2E7%2E219>

¹⁵⁶ Montana Department of Transportation Right-of-Way Manual, Ch. 46, 46-1.1 through 1.4, https://www.mdt.mt.gov/other/webdata/external/ROW/manual/chapter_46.pdf

which is required in cases where a highway easement does not apply to the proposed project.¹⁵⁷ MDT will ensure that where possible, cost-saving measures like these are developed for access to all existing poles, conduits, and easements during broadband deployment.

e. Streamlining rights of way, including the imposition of reasonable access requirements.

SB 521 streamlined Montana laws related to broadband deployment and right-of-way.¹⁵⁸ The bill clarified MDT's authority to grant longitudinal right-of-way agreements and established the conditions under which an application should be reviewed, accepted, and executed on.^{159,160} The bill applies to agreements arranged both on interstate highways and non-interstate highways.^{161,162, 163} As such, SB 521 adheres to NTIA best practices by clarifying the requirements to receive a permit for various broadband installation scenarios.^{164,165}

The MBO is planning an additional symposium with the Montana Association of Counties (MACo), the Montana League of Cities and Towns, state agencies, the Montana Economic Developers Association and telecommunication companies in early 2024 to provide technical assistance related to the BEAD program. The symposium will have discussions on tactical issues like permitting to ensure all companies are successful and state and local agencies will understand the types and scale of permits that will be requested through BEAD. The symposium should help reduce friction between stakeholders during the permitting process.

¹⁵⁷ Ibid

¹⁵⁸ Montana Senate Bill 521, <https://leg.mt.gov/bills/2023/billpdf/SB0521.pdf>

¹⁵⁹ Ibid

¹⁶⁰ Montana Senate Bill 392, https://leg.mt.gov/bills/2023/SB0399/SB0392_1.pdf

¹⁶¹ Administrative Rules of Montana 18.7.219, <https://rules.mt.gov/gateway/RuleNo.asp?RN=18%2E7%2E219>

¹⁶² Administrative Rules of Montana 18.7.220, <https://rules.mt.gov/gateway/RuleNo.asp?RN=18%2E7%2E220>

¹⁶³ Note that this statute is further supported by guidance from ARM 18.7.219 and 18.7.220.

¹⁶⁴ BEAD Best Practices Case Studies, https://broadbandusa.ntia.gov/sites/default/files/2023-03/Permitting_Best_Practices_Case_Studies.pdf

¹⁶⁵ BEAD Permitting 101, https://broadbandusa.ntia.doc.gov/sites/default/files/2022-12/IFA_Permitting_101_PDF.pdf

2.11 Climate Assessment (Requirement 15)

2.11.1 Climate Assessment

Text Box: Describe the Eligible Entity's assessment of climate threats and proposed mitigation methods. If an Eligible Entity chooses to reference reports conducted within the past five years to meet this requirement, it may attach this report and must provide a crosswalk narrative, with reference to page numbers, to demonstrate that the report meets the five requirements below. If the report does not specifically address broadband infrastructure, provide additional narrative to address how the report relates to broadband infrastructure. At a minimum, this response must clearly do each of the following, as outlined on pages 62 – 63 of the BEAD NOFO:

The state of Montana covers a vast area home to mountains, prairies, and badlands, a combination of landscapes that makes the state's weather extreme and variable: Montana holds the record for coldest temperature recorded in the lower 48 states (-70 °F), some storms have dropped nearly four feet of snow in just 24 hours, and air temperature has changed 47 degrees within seven minutes.^{166,167}

Given this severity and variability, large portions of the state are at risk of a variety of natural- and weather-related hazards that can pose significant threats to both people and property. As the state prepares to deploy BEAD funds, it is critical that steps are taken to construct infrastructure that can withstand natural hazards now and into the future.¹⁶⁸

Montana companies, including internet service providers, have already developed strategies to address these challenges, routinely building hardy, climate-resilient infrastructure. Solutions include microgrids for continuous electrical power and backup network mediums, both of which increase reliability.¹⁶⁹

To assess potential climate risks to infrastructure and develop a perspective on how best to mitigate those risks, the MBO utilized the Expected Annual Loss Rate for Buildings (EALR-B), which indicates potential risks to physical infrastructure. This allowed for an objective measure to evaluate potential damage to infrastructure across hazard types independent of community size and location.

EALR-B is derived from Expected Annual Loss (EAL), a widely utilized metric developed by the Federal Emergency Management Agency (FEMA) that illustrates the average economic loss from natural hazards in dollars each year.¹⁷⁰ EAL considers exposure, which represents the potential value of buildings, people, and agriculture exposed to an occurrence of a natural hazard;

¹⁶⁶ University of Montana, Montana Terrain, Weather Offers Land of Extremes, <https://www.umt.edu/this-is-montana/columns/stories/montana-weather-13.php>

¹⁶⁷ The Coldest Temperatures Ever Recorded in All 50 States, The Weather Channel, <https://weather.com/news/climate/news/coldest-temperature-recorded-50-states>

¹⁶⁸ FEMA National Risk Index Data Resources; <https://hazards.fema.gov/nri/data-resources>

¹⁶⁹ Resiliency Is Necessary for the Internet to Survive Climate Change, Forbes, <https://www.forbes.com/sites/waynerash/2021/03/25/resiliency-is-necessary-for-the-internet-to-survive-climate-change/?sh=4e6eefc31c04>

¹⁷⁰ FEMA National Risk Index Website, Expected Annual Loss: [https://hazards.fema.gov/nri/expected-annual-loss#:~:text=Expected%20Annual%20Loss%20Rate%20is,types%20\(individually%20and%20composite\).](https://hazards.fema.gov/nri/expected-annual-loss#:~:text=Expected%20Annual%20Loss%20Rate%20is,types%20(individually%20and%20composite).)

annualized frequency, which quantifies how often an event occurs in a year; and historic loss ratio, which represents the average percent of the entity expected to be lost (**Exhibit 44**).¹⁷¹

Exhibit 44: Expected annual loss (EAL) formula

$$\text{Expected Annual Loss} = \text{Exposure} \times \text{Annualized Frequency} \times \text{Historic Loss Ratio}$$

Because EAL includes the economic impact of hazards on people and agriculture, it can overinflate the potential damage to infrastructure. For that reason, the MBO recalculated EAL to arrive at EALR-B, which only reflects the potential impact on physical infrastructure (**Exhibit 45**). EALR-B, a composite score based on ratings of relative risk across all hazard types, was used to measure risk to broadband infrastructure.¹⁷²

Exhibit 45: Expected annual loss rate for buildings (EALR-B) formula

$$\text{Expected Annual Loss Rate} = \frac{\text{Expected Annual Loss}}{\text{Community Exposure}}$$

FEMA calculates EALR-B data for states, counties, and census tracts, and assigns communities a national percentile ranking relative to others at the same level. These rankings are divided into quintiles:

- Very low: 0-20th percentile
- Relatively low: 20th-40th percentile
- Relatively moderate: 40th-60th percentile
- Relatively high: 60th-80th percentile
- Very high: 80th-100th percentile

Based on these rankings, Montana's analysis will define high-risk areas (i.e., census tracts that should be subject to initial hazard screenings) as those in the top two quintiles: relatively high (60th-80th percentile) and very high (80th-100th percentile).¹⁷³

- a. Identify the geographic areas that should be subject to an initial hazard screening for current and projected future weather and climate-related risks and the time scales for performing such screenings;

Based on FEMA data, Montana has a relatively low risk for natural hazards and is ranked in the bottom quartile of U.S. states. Despite this, the MBO is dedicated to ensuring that BEAD

¹⁷¹ FEMA National Risk Index Website, Expected Annual Loss: [https://hazards.fema.gov/nri/expected-annual-loss#:~:text=Expected%20Annual%20Loss%20Rate%20is,types%20\(individually%20and%20composite\).](https://hazards.fema.gov/nri/expected-annual-loss#:~:text=Expected%20Annual%20Loss%20Rate%20is,types%20(individually%20and%20composite).)

¹⁷² FEMA National Risk Index Technical Documentation https://www.fema.gov/sites/default/files/documents/fema_national-risk-index_technical-documentation.pdf

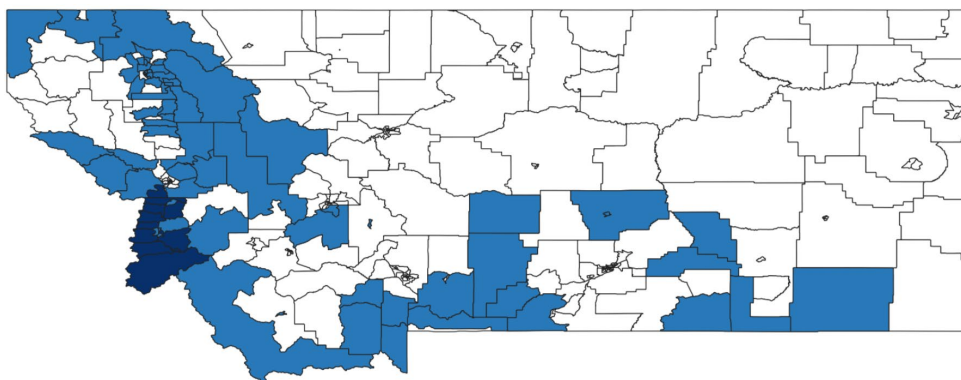
¹⁷³ FEMA National Risk Index Expected Annual Loss; <https://hazards.fema.gov/nri/expected-annual-loss>

subgrantees have robust plans to build resilient networks and well-rounded mitigation strategies that prepare infrastructure for a variety of challenges.

To identify the geographic areas that should be subject to an initial hazard screening for BEAD infrastructure projects, the composite EALR-B for all Montana census tracts was analyzed to assess overall natural hazard risk to each tract.¹⁷⁴ Of the 319 census tracts in Montana, 82 are at either relatively high risk (60th-80th percentile) or very high risk (80th to 100th percentile) to natural hazards (**Exhibit 46**), and therefore categorized as high-risk areas (also referred to in this natural hazard risk assessment as high-risk census tracts) by the MBO.

Montana's high-risk areas are primarily located in counties in the state's mountainous western and southwestern regions, as well as the grasslands in the state's central-south and southeast. Of the ten census tracts in Montana designated as very high risk, nine are in Ravalli County, while one is in Missoula County.

Exhibit 46: High-risk census tracts in Montana as determined by relative EALR-B¹⁷⁵



The EALR-B scores were calculated based on data for composite risk, and do not elucidate which natural hazards pose what level of risk to each area. Therefore, to determine which individual hazards (e.g., wildfires) are most threatening to infrastructure in various parts of the state, EALR-B scores specific to each natural hazard were analyzed separately. To that effect, the MBO utilized the 2023 Montana Multi-Hazard Mitigation Plan (MHMP), which re-assesses natural hazard risks to the state of Montana every five years.¹⁷⁶

¹⁷⁴ FEMA National Risk Index Data Resources; <https://hazards.fema.gov/nri/data-resources>

¹⁷⁵ FEMA National Risk Index Data Resources; <https://hazards.fema.gov/nri/data-resources>

¹⁷⁶ 2023 Montana MHMP, p. 1; https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

- b. Characterize which projected weather and climate hazards may be most important to account for and respond to in these areas and over the relevant time horizons;

Since the release of the original version of the plan in 2003, the Montana MHMP has been extensively updated to expand documentation of historical hazards and refine disaster mitigation strategies in pursuit of a more resilient Montana. This has been accomplished with extensive input from local governments, tribal agencies, non-government organizations, and detailed research and hazards analysis.¹⁷⁷ The plan spans nine sections and features in-depth discussion of the following topics: the development of the MHMP and integration with other State plans, a climate and economic profile of Montana, a risk assessment of each natural and manmade hazard threatening the state, statewide mitigation goals, objectives and projects, a capabilities assessment to determine ability to implement mitigation measures at the state and local levels, and a discussion of plan evaluation procedures.¹⁷⁸ The Montana MHMP is updated every five years, and more frequently if necessary, by the State's Department of Emergency Services (DES) in alignment with FEMA guidelines for pre-disaster planning.

In order of priority and omitting hazards that do not threaten broadband deployment, the following hazards were identified as top concerns for Montana:¹⁷⁹

- Wildfires
- Flooding
- Severe weather
- Earthquake
- Landslides and avalanches

While each of these hazards pose unique risks to the state, the MBO has identified four for additional analysis, because the census tracts they affect largely overlap with the high-risk areas previously identified for initial natural hazard screening.

Wildfires

The Montana MHMP designates wildfires as the leading hazard affecting Montana. The entire state is vulnerable to rangeland fires, and 75% of fires are started by human activity.¹⁸⁰ These fires are often exacerbated by strong winds, which carry airborne embers up to several miles at a time. The most damaging fires have occurred recently, as 62% of all lost structures burned down in the last 15 years, and approximately 1.3 million acres have burned in the state since 2018.¹⁸¹ The State has spent over \$800M on fire suppression costs over the past 20 years.¹⁸²

¹⁷⁷ Ibid.

¹⁷⁸ 2023 Montana MHMP, p. 2; https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁷⁹ 2023 Montana Multi-Hazard Mitigation Plan, p. 63;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

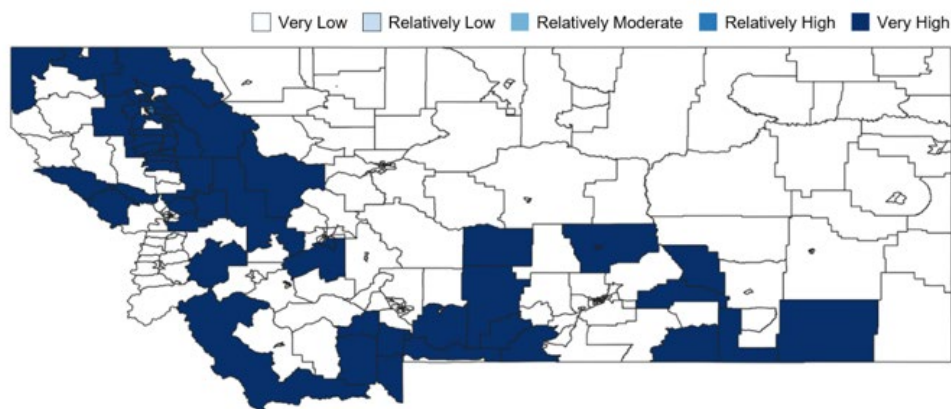
¹⁸⁰ 2023 Montana Multi-Hazard Mitigation Plan, p. 63;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁸¹ Ibid.

¹⁸² 2023 Montana Multi-Hazard Mitigation Plan, p. 287;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

A map of census tracts deemed as high risk for wildfire activity is presented below (**Exhibit 47**). These tracts are primarily located in Montana’s west and southwest, with some additional tracts with very high risk of wildfires in the State’s south. They have significant overlap with the census tracts that have high composite risk for natural hazard damage to infrastructure.

Exhibit 47: Wildfire risk in high-risk areas based on EALR-B¹⁸³



Flooding

Flooding is another natural hazard prioritized by the State in the 2023 Montana MHMP.¹⁸⁴ From 1996 to 2022, flooding caused \$43 million in property damage, around \$20 million of which occurred in just 15 counties. Flooding risk in high-risk census tracts is presented below in **Exhibit 48**. Of these census tracts, those with the highest risk of flooding are in the state’s south and southeast, while some low-risk and moderate tracts are present in the state’s west and northwest.

Importantly, flooding can be exacerbated by increased wildfire activity. In the two to five years after a fire, post-fire debris can be highly water repellant, causing rainfall that would otherwise be absorbed to travel downhill.¹⁸⁵ As it heads downhill, water can collect ash, sand, silt, rocks, and other debris, potentially creating a flash flood.¹⁸⁶ Flooding-related risks are generally projected to

¹⁸³ FEMA National Risk Index Data Resources; <https://hazards.fema.gov/nri/data-resources>

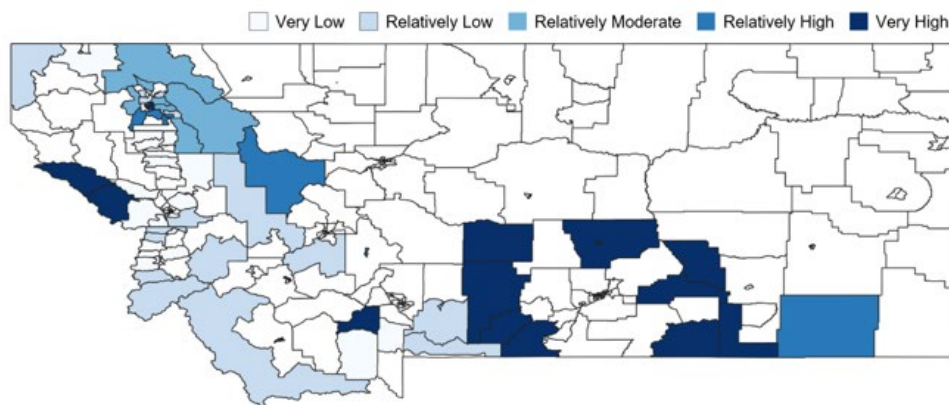
¹⁸⁴ 2023 Montana Multi-Hazard Mitigation Plan, p. 98; https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁸⁵ 2023 Montana Multi-Hazard Mitigation Plan, p. 117; https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁸⁶ Ibid.

increase in the coming years, per both the 2023 Montana MHMP and NOAA's Climate Explorer.^{187,188}

Exhibit 48: Flooding risk in high-risk areas based on EALR-B¹⁸⁹



The State of Montana actively addresses flooding concerns at the state, county, and community levels. There are 136 communities that participate in the National Flood Insurance Program (NFIP), 11 of which have no special hazard risk and 31 of which are only minimally prone to flooding.¹⁹⁰ Since 1978, the NFIP has paid over \$15.2 million toward 3,521 insured properties in Montana.¹⁹¹ Montana state law prohibits development in floodways, in general alignment with the requirements of the Federal Flood Risk Management Standard, and requires permits for developing in 100-year floodplains.^{192,193} Counties are required to meet this minimum requirement, though they are also permitted to establish more restrictive regulations.¹⁹⁴

The State is currently working to better understand the risks posed by flooding, because flood map data is not widely available for all regions. This strategic initiative to gather information has been

¹⁸⁷ 2023 Montana Multi-Hazard Mitigation Plan, p. 114;

https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁸⁸ National Oceanic and Atmospheric Administration, The Climate Explorer; <https://crt-climate-explorer.nemac.org/>

¹⁸⁹ FEMA National Risk Index Data Resources; <https://hazards.fema.gov/nri/data-resources>

¹⁹⁰ 2023 Montana Multi-Hazard Mitigation Plan, p. 110;

https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁹¹ 2023 Montana Multi-Hazard Mitigation Plan, p. 63;

https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁹² Congressional Research Service; The Federal Flood Management Risk Standard;

<https://crsreports.congress.gov/product/pdf/IN/IN12193>

¹⁹³ 2023 Montana Multi-Hazard Mitigation Plan, p. 127;

https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁹⁴ 2023 Montana Multi-Hazard Mitigation Plan, p. 127;

https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

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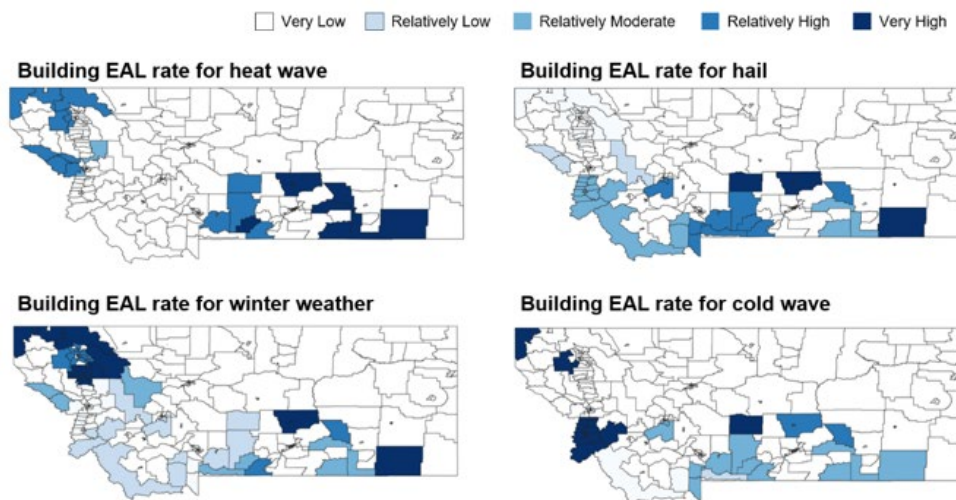
coordinated with the National Flood Insurance Program and FEMA’s Map Modernization Program, with the goal of beginning to update floodplain maps for most counties by 2026. ^{195,196}

Severe weather

Severe weather is considered a collective hazard by the 2023 Montana MHMP and includes both events related directly to extreme temperatures (e.g., cold waves, heat waves, blizzards) and other storm-related phenomena (e.g., lightning, hail, thunderstorms, and strong winds).^{197,198}

Within the severe weather category, winter weather, heat waves, cold waves, and hail pose relatively high or high risks to high-risk areas (**Exhibit 49**). Collectively, these severe weather events have been responsible for at least \$400M in property damage over 62 years of recorded activity.¹⁹⁹

Exhibit 49: Severe weather risk in high-risk areas based on EALR-B²⁰⁰



¹⁹⁵ 2023 Montana Multi-Hazard Mitigation Plan, p. 343;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁹⁶ 2023 Montana Multi-Hazard Mitigation Plan, p. 344;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁹⁷ 2023 Montana Multi-Hazard Mitigation Plan, p. 149;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁹⁸ 2023 Montana Multi-Hazard Mitigation Plan, p. 149;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

¹⁹⁹ 2023 Montana Multi-Hazard Mitigation Plan, p. 287;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

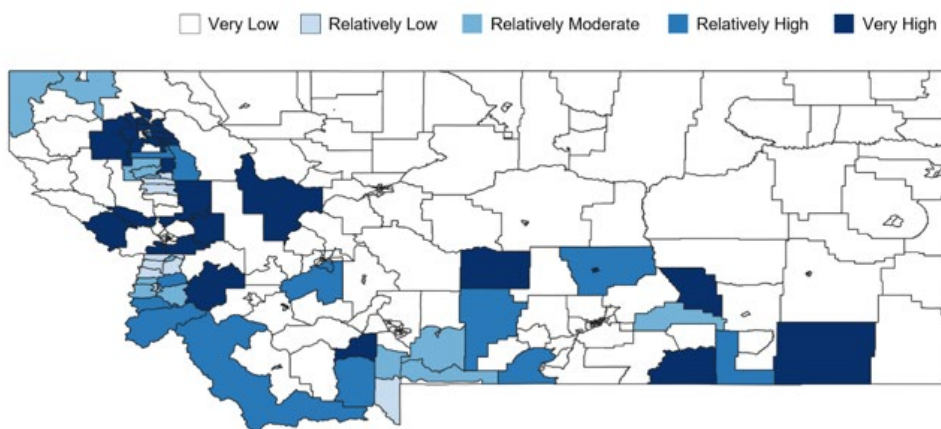
²⁰⁰ FEMA National Risk Index Data Resources; <https://hazards.fema.gov/nri/data-resources>

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Landslides

The 2023 Montana MHMP designates landslides as the 10th most prioritized natural hazards. Since 1995, around \$17M in property damage has occurred due to landslides, though of this total, around \$16.9M in damage was caused during one severe event in 2005.²⁰¹ In general, damaging landslides in Montana do not appear to occur more than once a decade.²⁰² However, landslides appear to have a close correlation to secondary hazards. For example, an increase in wildfire activity causes destruction of vegetation and topsoil erosion, which can increase the probability of landslides in a particular area. To that effect, census tracts with a high risk for landslide activity also generally appear to have a high rate of wildfire activity (**Exhibit 50**).

Exhibit 50: Landslide risk in high-risk areas based on EALR-B²⁰³



- c. Characterize any weather and climate risks to new infrastructure deployed using BEAD Program funds for the 20 years following deployment;

Below is a table of natural hazards, some of which have been previously discussed, that pose a risk to BEAD infrastructure deployed in Montana (**Exhibit 51**).²⁰⁴ These have been assessed in the 2023 Montana MHMP and are hazards that should generally be considered when deploying BEAD infrastructure.

²⁰¹ 2023 Montana Multi-Hazard Mitigation Plan, p. 266;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

²⁰² 2023 Montana Multi-Hazard Mitigation Plan, p. 265;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

²⁰³ FEMA National Risk Index Data Resources; <https://hazards.fema.gov/nri/data-resources>

²⁰⁴ 2023 Montana Multi-Hazard Mitigation Plan, p. 287;
https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

Exhibit 51: Annual frequency and direct average costs associated with natural hazards deemed a risk to Montana²⁰⁵

Hazard	Annual frequency	Average Damage to \$100M of Infrastructure
Wildfire	~2200	~\$23,900
Flooding	~10	~\$2,000
Earthquake	~0.23	~\$12,900
Hail	~20	~\$1,200
Winter weather	~40	~\$350
Cold wave	~1.1	~\$50
Lightning	~3.4	~\$24
Heat wave	~0.25	~\$21
Landslides	~1.2	~\$440

The likely future probability and changes to these events has also been assessed by the 2023 Montana MHMP and are displayed below (**Exhibit 52**).²⁰⁶ These findings are also consistent with the findings presented in the Northern Great Plains chapter of the 2018 National Climate Assessment (NCA), as well as the Montana Chapter of the NOAA National Centers for Environmental Information (NCEI) 2022 State Climate Summaries.^{207,208}

²⁰⁵ Data has been adapted from the FEMA National Risk Index Data Resources and only considers damage to infrastructure. When considering additional losses, e.g., business disruption, agricultural losses, these values are consistent in relative scale with the data presented in the NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters data mapping tool for entries in which both hazards are considered. NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters, MT 1980-2023;

<https://www.ncei.noaa.gov/access/billions/events/MT/1980-2023>

²⁰⁶ 2023 Montana Multi-Hazard Mitigation Plan, p. 286;

https://des.mt.gov/mitigation/2023_MT_MHMP_20230811.pdf

²⁰⁷ 2018 National Climate Assessment, Chapter 22; <https://nca2018.globalchange.gov/chapter/22/>

²⁰⁸ NOAA National Centers for Environmental Information 2022 State Climate Summaries, Key Messages; <https://statesummaries.ncics.org/chapter/mt/>

Exhibit 52: Summary of Montana-specific natural hazards and their future likelihood^{209,210,211}

Hazard	Current Frequency (events per year)	Probability of Future Events	Description of Changes
Wildfire	~2200	Highly likely	Increasing droughts may increase the frequency of wildfires; population growth in at-risk areas has amplified vulnerabilities across the state and hampered Montana's ability to curb wildfire risk through land-use planning strategies
Flooding	~10	Likely	Intense storms are projected to occur more frequently, increasing the frequency of flood events
Earthquake	~0.23	Possible	Increases in precipitation could induce landslides and liquefaction events during an earthquake, exacerbating the earthquake's intensity
Hail	~20	Highly likely	Intense springtime storms are projected to occur more frequently, increasing hail event frequency
Winter weather	~40	Highly likely	Intense winter storms are projected to occur more frequently
Cold Wave	~1.1	Highly likely	Intense winter storms are projected to occur more frequently, increasing the probability of cold waves
Heat wave	~0.25	Highly likely	Higher overall temperatures will increase the likelihood of sustained

²⁰⁹ FEMA National Risk Index Data Resources; <https://hazards.fema.gov/nri/data-resources>

²¹⁰ 2018 National Climate Assessment, Chapter 22; <https://nca2018.globalchange.gov/chapter/22/>

²¹¹ NOAA National Centers for Environmental Information 2022 State Climate Summaries, Key Messages; <https://statesummaries.ncics.org/chapter/mt/>

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			heat weather patterns and increasing the probability of heat waves
Landslides	~1.2	Possible	Increased flooding may increase landslides caused by debris flow

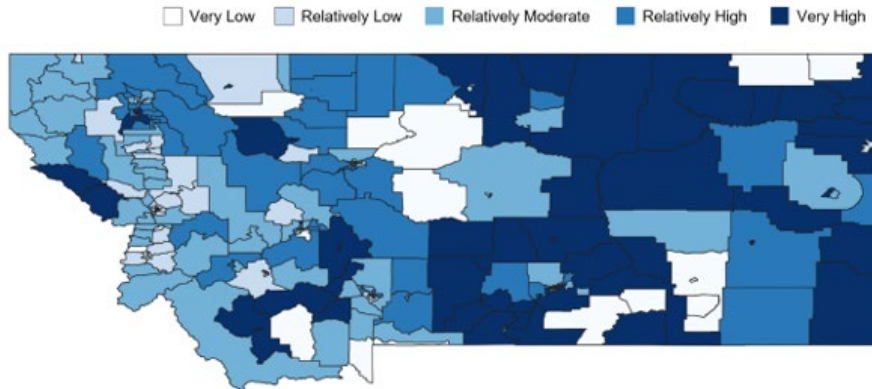
Of these hazards, wildfires appear to occur with the greatest frequency, followed by flooding and hail. The natural hazard risk assessment presented in the 2023 Montana MHMP suggests that the frequency and intensity of all hazards will generally increase in the future. Moreover, the 2022 State Climate Summaries from NOAA NCEI suggest that increases in wildfire, flood, and precipitation frequency are all likely in the coming years.²¹¹ This may result in more property damage to BEAD infrastructure and require further evaluation to ensure pre- and post-disaster plans at the state and local level are sufficiently prepared.

d. Identify how the proposed plan will avoid and/or mitigate weather and climate risks identified; and

Independent of project area location, the BEAD NOFO requires all applicants to “determine whether a proposed action will occur in a floodplain” in coordination with NTIA.²¹² While flooding was previously considered only for high-risk areas (**Exhibit 48**), this suggests that flooding hazards should also be considered in parts of Montana that do not have high composite natural hazard risks (**Exhibit 51**). The flooding risk map for all census tracts in Montana shows that large areas of the state, particularly tracts in the east and northeast, are at relatively high or very high risk of flooding despite having a lower overall natural hazard risk. Therefore, applicants whose project areas fall into tracts with low overall risks to infrastructure should still evaluate flooding risks.

²¹² BEAD NOFO, p. 62, <https://broadbandusa.ntia.doc.gov/sites/default/files/2022-05/BEAD%20NOFO.pdf>

Exhibit 53: Flooding risk across all census tracts based on EALR-B²¹³



In addition, per guidance in both the BEAD NOFO and BEAD Initial Proposal Volume II, applicants whose project areas fall partially or wholly within the high-risk census tracts identified by the MBO will be required to provide specific responses for how they will incorporate NTIA's six risk mitigation measures (i.e., technology platform, retrofitting/hardening, redundant power, existing plans, restoration speed, and network redundancies) into their deployment planning. Those six measures, along with descriptions of how applicants will be asked to demonstrate their capability to deploy broadband infrastructure that is resilient to natural hazards are presented in **Exhibit 54.**^{214, 215}

²¹³ FEMA National Risk Index Data Resources; <https://hazards.fema.gov/nri/data-resources>

²¹⁴ BEAD NOFO, p. 62-64; <https://broadbandusa.ntia.doc.gov/sites/default/files/2022-05/BEAD%20NOFO.pdf>

²¹⁵ BEAD Initial Proposal Volume II Guidance, p. 76; https://broadbandusa.ntia.doc.gov/sites/default/files/2023-07/BEAD_Initial_Proposal_Guidance_Volumes_I_II.pdf

Exhibit 54: Requirements for subgrantee demonstration of climate resilient Infrastructure

Mitigation measure	Task
Technology platform: Choice of a technology platform suitable to the climate risks of the region, reliance on alternative siting of facilities	Applicants submit a justification of how technology choice was informed by natural hazards
Retrofitting/hardening: Retrofitting or hardening of existing assets that are critical to BEAD-funded projects	Applicants outline their plan to update existing infrastructure being upgraded with BEAD funding and reinforce new infrastructure
Redundant power: Additional onsite and in-home power resources	Applicants provide a redundant power supply plan including in-home and/or network power
Existing plans: Use of established plans and processes to deal with extreme weather-related risks	Applicants submit a detailed plan on how they intend to mitigate natural hazard risk
Restoration speed: The speed of restoration of service in the case of an outage	Applicants include the speed of restoration in case of an outage that they will commit to in customer SLAs
Network redundancies: Use of network and facility redundancies to safeguard against threats to infrastructure	Applicants outline how their network design will ensure connectivity is maintained in case of equipment damage or disconnection

- e. Describe plans for periodically repeating this process over the life of the Program to ensure that evolving risks are understood, characterized, and addressed, and that the most up-to-date tools and information resources are utilized.

The 2023 Montana MHMP was developed to collect data on hazards and provide recommendations on disaster resilience for the state of Montana. An original version of the guide was created based on the Disaster Mitigation Act of 2000 and meets the requirements of the State Mitigation Plan Review Guide to qualify for federal disaster assistance.

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Updates to these plans are funded by the FEMA Pre-Disaster Mitigation grant program and are scheduled every five years or as necessary based on newly available information. Each new iteration builds upon the most recently published version, while also incorporating additional or refreshed data or analyses, as available. For example, the 2023 Montana MHMP built upon the 2018 Montana MHMP by incorporating renewed hazard analyses that were based on 2020 U.S. census estimates and enhanced geospatial understanding of hazard activity. It includes updates to proposed mitigation strategies as well as additional input from local and tribal governments. The plan also contains provisions to align with more detailed local plans for various counties, tribal entities, and specific hazards. Some of these plans include:

- Local Multi-hazard Mitigation Plan
- Local Multi-jurisdictional Multi-hazard Mitigation Plan
- Tribal Multi-hazard Mitigation Plan

The next update to the Montana MHMP is scheduled for 2028. Other resources, such as Montana's state climatologist and the Climate Impacts Research Consortium of NOAA's Climate Program Office, could be used to inform these updates.^{216,217}

As the Montana MHMP is updated at a regular cadence every five years, the MBO and its subgrantees can utilize the plan to identify and address weather and climate-related risks on an ongoing basis. If significant new hazards to BEAD infrastructure are identified, subgrantees may be asked to adjust their natural hazard mitigation plans to ensure the integrity of BEAD-deployed infrastructure far into the future.

2.11.1.1 Climate Assessment Report Attachments

Optional Attachment: As an optional attachment, submit any relevant reports conducted within the past five years that may be relevant for this requirement and will be referenced in the text narrative above.

The 2023 Montana Multi-Hazard Mitigation Plan is attached for reference.

²¹⁶ American Association of State Climatologists; https://stateclimate.org/state_programs/

²¹⁷ NOAA Climate Program Office, Current CAP/RISA Teams; <https://cpo.noaa.gov/Divisions-Programs/Climate-and-Societal-Interactions/CAP-RISA/Current-Teams/>

2.12 Low-Cost Broadband Service Option (Requirement 16)

2.12.1 Low-Cost Plan

Text Box: Describe the low-cost broadband service option(s) that must be offered by subgrantees as selected by the Eligible Entity, including why the outlined option(s) best services the needs of residents within the Eligible Entity's jurisdiction. At a minimum, this response must include a definition of low-cost broadband service option that clearly addresses the following, as outlined on page 67 of the BEAD NOFO:

- a. All recurring charges to the subscriber, as well as any non-recurring costs or fees to the subscriber (e.g., service initiation costs);
- b. The plan's basic service characteristics (download and upload speeds, latency, any limits on usage or availability, and any material network management practices);
- c. Whether a subscriber may use any Affordable Connectivity Benefit subsidy toward the plan's rate; and
- d. Any provisions regarding the subscriber's ability to upgrade to any new low-cost service plans offering more advantageous technical specifications.

Low-cost plans and NTIA's requirement to set a fixed price has been the subject of debate and consternation amongst many stakeholders in the development of Initial Proposal Volume II. While the MBO recognizes the importance of affordable access to broadband, the MBO philosophically disagrees with the NTIA's position that rate requirements are not rate setting. However, the MBO has worked diligently to find a data-driven solution that meets the NTIA's requirements, improves the potential for companies to participate in the program and serves all Montanans.

Summary

In addition to the value the MBO places on affordability for Montanans, the Office understands the challenges inherent in deploying broadband infrastructure in the state, given its vastness, low population density, rugged geography, and extreme weather. These characteristics, which make Montana unique, can also make construction and maintenance expensive. Analysis conducted by the Montana Broadband Office indicates that the costliest BSLs may require upwards of \$300,000 each to serve.²¹⁸

These financial obstacles were reinforced repeatedly over the last year, as the MBO engaged a broad swath of stakeholders, including a number of internet service providers. Broadly, providers acknowledged and expressed concern about the potential financial challenges in deploying infrastructure in the state.

The State took the feedback gathered through its stakeholder engagement process to heart, and throughout the development of its Initial Proposal, the MBO has intentionally made design choices (e.g., provider-defined project areas, detailed in 2.4.6) that it believes will increase participation, competition, and the sustainability of the BEAD infrastructure investment. Montana, which is

²¹⁸ Analysis conducted by the MBO; Estimates for fiber subsidy required assumes that locations connected by RDOF, RUS, CAF II, NTIABIP, and Reconnect (up to May 2023) are considered served. Subsidy required by location represents the NPV investment required for the location, estimated future cash flows, and estimated ISP investment for each location.

already projected to have insufficient BEAD funding for 100% FTTH, will not achieve program goals without broad provider participation.

It was in this spirit that, as the State of Montana created its low-cost plan, it balanced dual priorities of ensuring that high-quality internet is affordable and that internet service providers participate in the BEAD program to build out broadband infrastructure to the far reaches of the vast state. The approach that Montana has taken to achieve these priorities has been developed and revised following significant stakeholder input and is further detailed below.

Affordability scoring criteria

Initially, the MBO designed its scoring rubric to incentivize providers to offer low-cost plans at the lowest possible prices.

In that scenario, rather than setting a single price to which all providers would be required to adhere, the State structured affordability scoring criteria to award more points to providers that offered low-cost plans at lower prices.

For priority projects, the State sought to achieve this by offering subgrantee applicants who commit to offering 1/1 Gbps service to the customers in BEAD project areas at the same rates they offer in their existing markets will the ability to earn 20 points. If applicants do not currently offer 1/1 Gbps service, they may make forward-looking commitments to offer the same rates for 1/1 Gbps plans across all locations to earn 20 points. Subgrantee applicants who do not make one of these commitments will earn 0 points.

For non-priority projects, the State sought to achieve this by offering subgrantee applicants who commit to offering 100/20 Mbps service to the customers in BEAD project areas at the same rates they offer in their existing markets the ability to earn 20 points. If applicants do not currently offer 100/20 Mbps service, they may make forward-looking commitments to offer the same rates for 100/20 Mbps plans across all locations to earn 20 points. Subgrantee applicants who do not make one of these commitments will earn 0 points.

For both priority and non-priority projects, the affordability criteria carried the second-highest weights in the scoring rubrics.

This approach was shared widely when it was included in the MBO's first draft of its Initial Proposal Volume II, which was posted for public comment on September 28, 2023. In addition, the approach was discussed during the October 11, 2023, and November 7, 2023, Communications Advisory Commission (CAC) meeting. Through both of these avenues, key stakeholders, including CAC members, internet service providers, the NTIA, and others, shared their input with the MBO.

In response to the feedback received from these critical stakeholders, the MBO decided to develop an alternative approach that does not evaluate the low-cost plan through scoring criteria. However, the remaining affordability criteria still carry the second-highest weights in both priority and non-priority project scoring rubrics, highlighting the value that the MBO places on affordable and accessible internet service. For further details about the State's scoring approach and rubric, see 2.4.2 and 2.4.2.1.

Low-cost plan design

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Following stakeholder input, the MBO has revised its draft low-cost plan to reflect the needs of Montana's diverse stakeholders and ensure that high-quality internet is both affordable and that internet service providers participate in the BEAD program. Each component of the low-cost plan design is further detailed below.

A. Offering

The MBO has aligned its low-cost plan offering with the model low-cost plan provided by NTIA in the BEAD NOFO. As such, all applicants will be required to offer plans that provide typical download speeds of at least 100 Mbps, typical upload speeds of at least 20 Mbps, and latency measurements of no more than 100 milliseconds. Further, providers will be required to allow subscribers to apply the Affordable Connectivity Benefit, or any successor plan, toward the low-cost plan. The proposed low-cost plans may not be subject to data caps, surcharges, or usage-based throttling. Also, if, subsequent to the establishment of its low-cost plan, the provider offers another low-cost plan with higher speeds, the provider will be required to permit its existing low-cost subscribers to upgrade to the new low-cost plan at no additional cost.

B. Eligibility

The MBO will also follow the NTIA's guidance regarding subscriber eligibility for the low-cost plan. As stated in the BEAD NOFO, eligibility for the low-cost plan will include households that qualify for the Affordable Connectivity Program (ACP) or any successor program.²¹⁹ This will help ensure that eligible Montanans can both access low-cost plans and apply the Affordable Connectivity Program benefit to further reduce costs to the consumer, while helping offset the high cost of internet for providers.

C. Pricing

As the MBO considered an alternative low-cost plan design, it sought out an objective benchmark to inform appropriate pricing.

Because the State was committed to adopting a data-driven approach, it turned to the annual FCC broadband rate survey.²²⁰ According to the FCC, every year, the agency "conducts a survey of the fixed voice and broadband service rates offered to consumers in urban areas. The FCC uses the survey data to determine the reasonable comparability benchmarks for fixed voice and broadband rates for universal service purposes."

The State conducted an analysis based on the survey data reported over the last three years (2021-2023) in the Western United States (i.e., Arizona, New Mexico, Utah, Wyoming, Colorado, Idaho, Montana, Nevada, California, Oregon, and Washington) to calculate the average and median costs of plans offering ~100/20 Mbps speeds.²²¹ The data showed that both average and median plan costs were approximately \$70 per month (**Exhibit 55**).

²¹⁹ BEAD NOFO, p. 12

²²⁰ FCC broadband rate survey: <https://www.fcc.gov/economics-analytics/industry-analysis-division/urban-rate-survey-data-resources>

²²¹ The MBO reviewed plans with download speeds of 100 Mbps and upload speeds of 10-20 Mbps.

Exhibit 55: Monthly cost of ~100/20 Mbps internet plans reported in the FCC broadband rate survey, 2021-2023²²²

Geographic area	Average plan cost (\$/month)	Median plan cost (\$/month)	Number of plans reported
Western United States ²²³	\$69.40	\$69.95	182

Rather than assigning an arbitrary or unrealistic dollar amount to its low-cost plan, the MBO chose to analyze this FCC data set, achieving several goals, including reviewing an adequate sample size, identifying a representative geographic region, and maintaining objectivity.

On an annual basis, the MBO will use the approach outlined above—reviewing the previous three years of FCC broadband rate survey data on the monthly cost to consumers of ~100/20 Mbps plans in the Western United States—to inform the appropriate low-cost plan price. To prevent outliers from skewing the data, the MBO will refer to the median, rather than the average, and round up to the nearest whole dollar. As an example, using this approach would yield a low-cost plan price of \$70 for 2024. Re-calculating this benchmark annually will help ensure that the price remains current and accounts for inflation. The low-cost plan price to consumers should be inclusive of all taxes and fees, except for those that may be imposed by the government. It is also important to note that Eligible Subscribers will be able to apply the ACP benefit to the plan price. Thus, a plan price of \$70 would represent a cost of \$40 to the end user (and \$0 if on Tribal lands). In the event the ACP is discontinued, the MBO will still follow the above outlined approach to determine the price for the low-cost plan requirement (i.e., the plan price would remain \$70 in the example above).

States without Montana’s unique challenges as discussed throughout Initial Proposal Volume II that have less underserved and unserved locations have received hundreds of millions more than Montana in their allocation. This has given those other states more flexibility in their low-cost plan structure, especially related to use of potential non-deployment funds (e.g., ability to use a low-cost plan structure similar to the model proposed by the NTIA).

As detailed in this Initial Proposal, the very high costs of deployment in Montana and the relatively modest BEAD allocation available to the state leads to the unavoidable conclusion that achieving the baseline goal of BEAD – 100% access to broadband throughout the state – will be far more

²²² FCC broadband rate survey: <https://www.fcc.gov/economics-analytics/industry-analysis-division/urban-rate-survey-data-resources>

²²³ “Western United States” includes the following states: Arizona, New Mexico, Utah, Wyoming, Colorado, Idaho, Montana, Nevada, California, Oregon, and Washington.

challenging in Montana than in other states. It is also unavoidable that mandating unreasonably low prices for BEAD projects, though well-intended in theory, will simply have the effect of increasing the required BEAD funding for subgrants throughout the state.

Therefore, while states with an excess of BEAD funding may have the luxury of setting very low rates for the low-cost service option including at the model level set by NTIA in the NOFO, Montana does not. Instead, the MBO has adopted a reasonable rate ceiling that reflects objective pricing data and the economic realities of providing broadband service in Montana. The MBO hopes that this approach will achieve both goals of providing affordable broadband options for Montanans while also ensuring financial feasibility for providers to promote broad participation in the BEAD program that will further expand broadband access across the state.

2.12.2 ACP Participation Certification

Check Box: Certify that all subgrantees will be required to participate in the Affordable Connectivity Program or any successor program.

The MBO will require all subgrantees to participate in the Affordable Connectivity Program or any successor program.

2.13 Middle-Class Affordability Plans

2.13.1 Middle-Class Affordability Plans

Text Box: Describe a middle-class affordability plan that details how high-quality broadband services will be made available to all middle-class families in the BEAD-funded network's service area at reasonable prices. This response must clearly provide a reasonable explanation of how high-quality broadband services will be made available to all middle-class families in the BEAD-funded network's service area at reasonable prices.

The definition of “middle class” can vary widely depending on geographic location, lifestyle, and other cultural or societal norms. Because of the subjective nature of defining the middle class, and further, of determining what might be affordable for that population, the MBO utilized existing best practices from the Broadband Commission for Sustainable Development (BCSD) and relied on data provided by the U.S. Census Bureau. These findings were validated with research from both the FCC and the Pew Charitable Trust, an independent, non-profit organization that works with state and federal policymakers, researchers, and other partners to advance the public interest on broadband access.²²⁴

The BCSD is a joint initiative between UNESCO and the International Telecommunications Union composed of over 50 industry CEOs, academics, civil and intergovernmental agency representatives and other leaders in broadband and telecommunications.²²⁵ It conducts research and develops recommendations for achieving universal broadband service, and holds that, “prices for entry-level broadband service should be below 2% of monthly gross national income per capita.”²²⁶

To objectively evaluate “middle class affordability,” the MBO utilized this approach to determine at what price an internet plan may be considered unaffordable in accordance with BCSD guidance.²²⁷

According to Pew, middle-class household incomes range from \$40,000 to \$150,000 nationally.²²⁸ Given this wide range, the MBO used income data for all Montana households from the 2021 American Community Survey, administered by the U.S. Census Bureau, to determine the average household income for every county in Montana.²²⁹ The MBO then applied BCSD's 2% principle to

²²⁴Pew Charitable Trusts, Broadband Access Initiative, <https://www.pewtrusts.org/en/projects/broadband-access-initiative>

²²⁵ Broadband Commission for sustainable Development, Our Commissioners, <https://www.broadbandcommission.org/commissioners/>

²²⁶ Broadband Commission for Sustainable Development, 2025 Targets: Connecting the Other Half, <https://www.broadbandcommission.org/broadband-targets/>

²²⁷ BEAD Initial Proposal Volume II Guidance, p. 82, https://broadbandusa.ntia.doc.gov/sites/default/files/2023-07/BEAD_Initial_Proposal_Guidance_Volumes_I_II.pdf

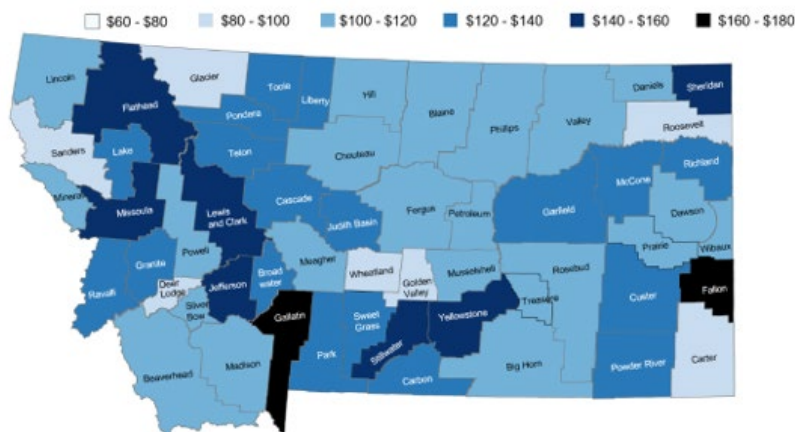
²²⁸ Pew Charitable Trusts, Is Broadband Affordable for Middle-Class Families? <https://www.pewtrusts.org/en/research-and-analysis/articles/2023/08/30/is-broadband-affordable-for-middle-class-families#:~:text=For%20the%20purposes%20of%20this,median%20affordability%20standard%20of%20%2493.21>

²²⁹ American Community Survey, U.S. Census, [https://data.census.gov/table?g=040XX00US30\\$0500000&tid=ACST5Y2021.S1901](https://data.census.gov/table?g=040XX00US30$0500000&tid=ACST5Y2021.S1901)

identify at what price point a plan may become unaffordable. The results are displayed in **Exhibit 56**.

In 50 out of 56 counties, 2% of the average household income is above \$100/month. The average cost of an internet plan that represents 2% of average household income by county in Montana is \$121/month. This is consistent with a comparable analysis conducted by the Pew Charitable Trust, which was based on 2021 5-year income data from the American Community Survey.²³⁰ According to Pew, in the western region of the United States, including the state of Montana, the “monthly affordability standard” is \$100.72.

Exhibit 56: Potential cost of an affordable internet plan based on 2% of average county income²³¹



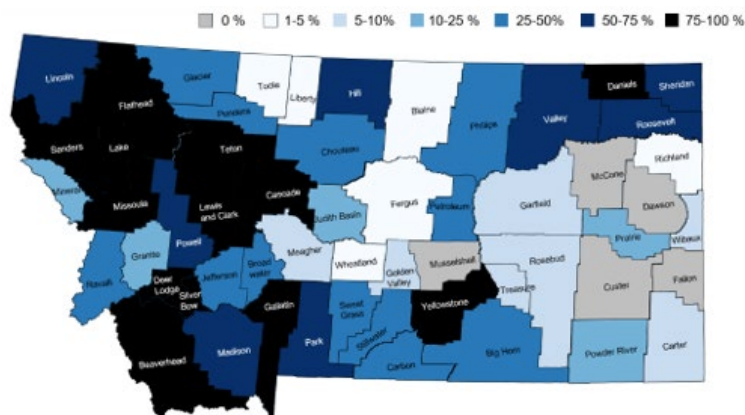
The MBO next wanted to understand the landscape of internet plans that were offered in the state. Desktop research and direct inquiries (i.e., calls to providers or quotes requested through provider websites) were conducted to determine which providers offered plans with speeds of at least 100/20 Mbps at various prices across Montana. The results of that research are illustrated in **Exhibit 57**. According to this analysis, ~326,400 BSLs in Montana, or 84.9% of total served

²³⁰ Pew Charitable Trusts, Is Broadband Affordable for Middle-Class Families? <https://www.pewtrusts.org/en/research-and-analysis/articles/2023/08/30/is-broadband-affordable-for-middle-class-families#:~:text=For%20the%20purposes%20of%20this,median%20affordability%20standard%20of%20%2493.21>.

²³¹ American Community Survey, U.S. Census, [https://data.census.gov/table?g=040XX00US30\\$0500000&tid=ACST5Y2021.S1901](https://data.census.gov/table?g=040XX00US30$0500000&tid=ACST5Y2021.S1901)

locations, currently have access to an internet plan with at least 100/20 Mbps speeds at \$100/month or less.²³²

Exhibit 57: Percent of BSLs that have access to 100/20 Mbps for ≤ \$100/month²³³



Based on these findings, the MBO observed that most Montanans have access to a 100/20 Mbps internet plan for \$100/month or less. Given the 2% benchmark adopted by the FCC and BCSD, average income by county, and the existing provider landscape, the MBO believes that most Montanans who could be reasonably considered “middle class” (based on average income) have access to adequate internet speeds at a cost that is not unaffordable.

The MBO anticipates that BEAD subgrantees will offer plans that are consistent with current offerings for a number of reasons, including:

Existing landscape

As noted above, plans that provide speeds of at least 100/20 Mbps at \$100/month or less are offered widely in Montana. The MBO anticipates that pricing norms and market pressures will encourage providers establishing new service through BEAD funding to align with the prevailing prices.

Provider-defined project areas

One of the MBO’s main objectives in allowing providers to draw their own project areas was to give applicants sufficient freedom to optimize their business cases, which could be achieved by utilizing existing infrastructure or strategically expanding service areas. If providers develop stronger business cases, they may be able to offer service at more affordable prices.

²³² Calculated based on a total of 384,643 served BSLs according to the FCC Broadband Map, broadbandmap.fcc.gov

²³³ BSL location data was obtained from the FCC Broadband Map, broadbandmap.fcc.gov; internet plan prices were obtained from desktop research and direct inquiries.

Scoring criteria

Both priority and non-priority projects include affordability criteria, which carry the second-highest weights in both scoring rubrics (at 20% of total points), highlighting the value that the MBO places on affordable and accessible internet service. For further details about the State's scoring approach and rubric, see 2.4.2 and 2.4.2.1.

In addition, Montana has adopted a scoring metric that favors applicants that will serve greater numbers of unserved and underserved locations. This criterion is closely correlated to plan costs—providers that offer service to more locations will benefit from economies of scale, which should reduce the required revenue per BSL, allowing providers to offer plans at lower price points while maintaining viable business cases.

Evaluating high-cost outliers

As noted in 2.4.6, the MBO maintains the right to evaluate the cost to serve individual BSLs within project areas and consider alternative service opportunities for extremely high-cost locations. While the MBO plans to utilize this option as sparingly as possible, it does give the State the flexibility to reduce the overall cost of project areas. This could be impactful, as some of the most challenging and expensive locations to serve may require upwards of \$300,000 each.²³⁴ In those select cases, removing extremely high-cost locations could drastically improve a provider's business case, allowing them to offer plans at lower prices that are accessible to more Montanans.

Stakeholder engagement

The MBO has conducted, and will continue to conduct, extensive stakeholder engagement with ISPs to emphasize the importance of plan affordability. Through discussion at Communications Advisory Commission meetings as well as direct conversation with various internet service providers, the MBO has conveyed that affordability is a top priority as Montana strives to provide service to every un- and underserved location.

For these reasons, and given the analysis detailed above, the MBO is confident that high-quality broadband services will be made available to all middle-class families in the BEAD-funded network's service area at reasonable prices.

²³⁴ Analysis conducted by the MBO; Estimates for fiber subsidy required assumes that locations connected by RDOF, RUS, CAF II, NTIABIP, and Reconnect (up to May 2023) are considered served. Subsidy required by location represents the NPV investment required for the location, estimated future cash flows, and estimated ISP investment for each location.

2.14 Use of 20 Percent of Funding (Requirement 17)

2.14.1 Use of Funding Request

Text Box: Describe the Eligible Entity's planned use of any funds being requested, which must address the following:

- a. If the Eligible Entity does not wish to request funds during the Initial Proposal round, it must indicate no funding requested and provide the rationale for not requesting funds.
- b. If the Eligible Entity is requesting less than or equal to 20 percent of funding allocation during the Initial Proposal round, it must detail the amount of funding requested for use upon approval of the Initial Proposal, the intended use of funds, and how the proposed use of funds achieves the statutory objective of serving all unserved / underserved locations.
- c. If the Eligible Entity is requesting more than 20 percent (up to 100 percent) of funding allocation during the Initial Proposal round, it must detail the amount of funding requested for use upon approval of the Initial Proposal, the intended use of funds, how the proposed use of funds achieves the statutory objective of serving all unserved / underserved locations, and provide rationale for requesting funds greater than 20 percent of the funding allocation.

The State of Montana is requesting 100 percent of its funding allocation during the Initial Proposal round. In doing so, the MBO aims to instill confidence in potential subgrantees that all awards can be distributed in the guaranteed amounts in a timely fashion. The State recognizes that, especially for small providers, broadband deployment requires significant capital investment well before any revenue is collected. As such, the MBO believes that having immediate access to all allocated funds will reduce the potential risk incurred by providers.

The MBO intends to request \$623,973,798.59 in funding through its Initial Proposal Funding Request. This should include all funds available to the State of Montana minus Initial Planning funds (\$5,000,000) already received. The State intends to use \$12,479,475.98 for administration costs related to the grant and the remaining funds on programmatic costs. Administrative costs include personnel, travel equipment, supplies, other direct costs and indirect costs related to the program. Programmatic costs include federal subawards to subgrantees and implementation of the the subgranting process (e.g., challenge process). The State intends to use the funds as described in **Exhibit 58**. Further detail is outlined in Montana's Consolidated IPFR BEAD Budget.

Given that the State anticipates a funding shortfall to reach FTTH for all BSLs, the MBO plans to use nearly its full allocation to support deployment, rather than non-deployment activities. The MBO plans to use its allocation in line with NTIA guidance for administrative costs, the implementation of the challenge and subgrantee selection processes, and funding last-mile broadband deployment projects.

Exhibit 58: BEAD funding by IPFR category

Category	Estimated cost
State Personnel	\$1,873,390

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State Broadband Travel	\$33,431
Equipment	\$16,000
Supplies	\$33,400
Contractual/Subawards	\$620,044,322.61
Other direct costs	\$1,627,632.88
Indirect	\$345,622.10

2.14.2 Initial Proposal Funding Request

Financial Data Entry: Enter the amount of the Initial Proposal Funding Request. If not requesting Initial Proposal funds, enter '\$0.00.'

\$623,973,798.59

2.14.3 Adherence to BEAD Program Requirements

Check Box: Certify that the Eligible Entity will adhere to BEAD Program requirements regarding Initial Proposal funds usage. If the Eligible Entity is not requesting funds in the Initial Proposal round and will not submit the Initial Proposal Funding Request, note "Not applicable."

The State will certify compliance via check box.

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2.15 Eligible Entity Regulatory Approach (Requirement 18)

2.15.1 Waiving Laws

Text Box:

- a. Disclose whether the Eligible Entity will waive all laws of the Eligible Entity concerning broadband, utility services, or similar subjects, whether they predate or postdate enactment of the Infrastructure Act that either (a) preclude certain public sector providers from participation in the subgrant competition or (b) impose specific requirements on public sector entities, such as limitations on the sources of financing, the required imputation of costs not actually incurred by the public sector entity, or restrictions on the service a public sector entity can offer.
- b. If the Eligible Entity will not waive all such laws for BEAD Program project selection purposes, identify those that it will not waive (using the Excel attachment) and their date of enactment and describe how they will be applied in connection with the competition for subgrants. If there are no applicable laws, note such.

On May 1, 2001, Montana passed Montana Code Annotated (MCA) 2023, 2-17-603, "Government Competition With Private Internet Service Providers Prohibited – Exceptions."²³⁵ The law, which predates the enactment of the Infrastructure Investment and Jobs Act (IIJA), provides direction regarding public sector participation in broadband deployment.

MCA 2023, 2-17-603 states:

(1) Except as provided in subsection (2)(a) or (2)(b), an agency or political subdivision of the state may not directly or through another agency or political subdivision be an internet services provider.

- (2) (a) An agency or political subdivision may act as an internet services provider if:*
- (i) no private internet services provider is available within the jurisdiction served by the agency or political subdivision; or*
 - (ii) the agency or political subdivision provided services prior to July 1, 2001.*
- (b) An agency or political subdivision may act as an internet services provider when providing advanced services that are not otherwise available from a private internet services provider within the jurisdiction served by the agency or political subdivision.*
- (c) If a private internet services provider elects to provide internet services in a jurisdiction where an agency or political subdivision is providing internet services, the private internet services provider shall inform the agency or the political subdivision in writing at least 30 days in advance of offering internet services.*

²³⁵ Montana Code Annotated 2023, 2-17-603, https://leg.mt.gov/bills/mca/title_0020/chapter_0170/part_0060/section_0030/0020-0170-0060-0030.html

(3) Upon receiving notice pursuant to subdivision (2)(c), the agency or political subdivision shall notify its subscribers within 30 days of the intent of the private internet services provider to begin providing internet services and may choose to discontinue providing internet services within 180 days of the notice.

(4) Nothing in this section may be construed to prohibit an agency or political subdivision from:

- (a) offering electronic government services to the general public;
- (b) acquiring access to the internet from a private internet services provider in order to offer electronic government services to the general public; or
- (c) providing funding to private internet service providers for broadband service infrastructure projects; or
- (d) providing network infrastructure within contiguous campus of the agency or political subdivision.

After the passage of IIJA, the Montana State Senate enacted Senate Bill (SB) 531 to reduce the barriers to entry for municipalities offering broadband services. Passed on May 22, 2023, this legislation allows government entities to apply for broadband funding from the State or federal government if they apply in partnership with an eligible broadband provider.^{236,237}

SB 531 endeavored to adjust existing state definitions to align with the BEAD NOFO and reduce barriers to participation. The State's goal in modifying the manner in which public sector entities could provide broadband, by partnering with private companies, was intended to make BEAD broadly accessible. SB 531 is reflected in updated portions of MCA 2023, 2-17-603. Municipalities are no longer expressly prohibited from offering broadband services, although they are still prohibited from operating independently in areas where private providers exist. The State views this as a compromise that reduces previous barriers to entry for municipal internet service providers while preserving the competitiveness of the broadband market.

2.15.1.1 List of Laws Not Waived

Optional Attachment: As a required attachment only if the Eligible Entity will not waive laws for BEAD Program project selection purposes, provide a list of the laws that the Eligible Entity will not waive for BEAD Program project selection purposes, using the Eligible Entity Regulatory Approach template provided.

Excel attachment to be included, listing Montana Code Annotated (MCA) 2023, 2-17-603, "Government Competition With Private Internet Service Providers Prohibited – Exception."

²³⁶ Montana Senate Bill 531, https://leg.mt.gov/bills/2023/SB0599/SB0531_1.pdf

²³⁷ Montana Legislature Detailed Bill Information,

[http://laws.leg.mt.gov/legprd/LAW0203W\\$BSRV.ActionQuery?P_SESS=20231&P_BLTP_BILL_TYP_CD=SB&P_BILL_NO=531&P_BILL_DFT_NO=&P_CHPT_NO=&Z_ACTION=Find&P_ENTY_ID_SEQ2=&P_SBJT_SBJ_CD=&P_ENTY_ID_SEQ=](http://laws.leg.mt.gov/legprd/LAW0203W$BSRV.ActionQuery?P_SESS=20231&P_BLTP_BILL_TYP_CD=SB&P_BILL_NO=531&P_BILL_DFT_NO=&P_CHPT_NO=&Z_ACTION=Find&P_ENTY_ID_SEQ2=&P_SBJT_SBJ_CD=&P_ENTY_ID_SEQ=)

2.16 Certification of Compliance with BEAD Requirements (Requirement 19)

2.16.1 Compliance Certification

Check Box: Certify the Eligible Entity's intent to comply with all applicable requirements of the BEAD Program, including the reporting requirements.

The MBO will certify via check box.

2.16.2 Subgrantee accountability procedures

Text Box: Describe subgrantee accountability procedures, including how the Eligible Entity will, at a minimum, employ the following practices outlined on page 51 of the BEAD NOFO:

- a. Distribution of funding to subgrantees for, at a minimum, all deployment projects on a reimbursable basis (which would allow the Eligible Entity to withhold funds if the subgrantee fails to take the actions the funds are meant to subsidize);

The MBO will review invoices and fund projects on a reimbursable basis with the fixed subaward model for subgrants. Subgrantees will be able to be reimbursed after meeting subgrantee award measurable goals and objectives. Montana expects this process will result in fewer administrative burdens and will result in a more efficient administration of the BEAD program and more efficient use of program funding.

- b. The inclusion of clawback provisions (i.e., provisions allowing recoupment of funds previously disbursed) in agreements between the Eligible Entity and any subgrantee;

As provided in § 90-1-607(6), MCA 2023, the MBO may assess penalties for a subgrantee's failure to comply with the provisions of a subgrantee award agreement without reasonable cause. All penalties are limited to 100% of the allocation to subgrantee under the subgrantee award agreement.

Payments made for costs determined to be unallowable by either the MBO or the U.S. Treasury, must be refunded (including interest and penalties) by the subgrantee to the MBO in accordance with instructions from the MBO that determined the costs are unallowable unless federal statute or regulation directs otherwise.

In addition to any other remedy allowed under a subgrantee award agreement for breach, (such as discovery of false statements made by the subgrantee), the subgrantee understands that making false statements or claims in connection with this award is a violation of federal law and may result in criminal, civil, or administrative sanctions, including fines, imprisonment, civil damages and penalties, debarment from participating in federal awards or contracts, and/or any other remedy available by law.

- c. Timely subgrantee reporting mandates; and

The MBO will require subgrantees to report on a semiannual basis to align with the Eligible Entity's NTIA reporting requirements.

- d. Robust subgrantee monitoring practices.

The MBO will institute the following practices and procedures to review awardee activities to reduce waste, fraud and abuse, oversee project implementation, and monitor overall progress toward completion.

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- Semiannual reporting will require the MBO team to review progress based on approved contracted milestones included with applications. Additionally, a third-party engineering contractor will be dispatched to project areas on both a random and scheduled basis to review applicant stated progress and evaluate accuracy of in-progress and completed project builds.
- A third-party engineering firm will also complete close out in field inspections of all awarded projects prior to final approval and final payment of remaining funds.
- Reimbursement requests will be processed no more than once every 30 days and will require proof of payment of invoices from a third party. All Reimbursement requests will undergo a two-step review process with a third-party compliance team completing an initial review of materials before forwarding with notes to the MBO team for a second line review and state approval. If further information is required, the MBO will reach out to the third-party reviewer for follow up with the original submitter.
- A customer service desk will be staffed to handle technical assistance requests. The MBO will set up regular office hours and informational webinars to provide additional as needed technical assistance.
- Project Change Requests will be handled on an as-needed basis.
- The MBO will require the FCC location IDs for all awarded projects be updated on a semiannual basis.
- The MBO will produce a package of forms specifically for the BEAD program that will include: Semiannual Financial Reporting, Semiannual Progress Reporting, Reimbursement Requests, Project Change Requests, Annual Financial and Progress Reporting, and closeout Financial and Progress Reporting. Additionally, the MBO will produce Standard Operating Procedures once the program is approved to document all internal processes, including templates for applicant and awardee communications.
- The MBO will create a file for each awarded grant that includes:

- 1. Approved Applications**

- a. Subrecipient application and proposed budget.
- b. Feedback to subrecipient on initial application, updated application if applicable.
- c. Executed subaward agreement.
- d. Approved budget at time of executed agreement.
- e. A copy of the original application form/questions.
- f. Any subsequent modifications to relevant documents.

- 2. Subrecipient Reimbursement Requests, Approvals, Payments, and/or Denials**

- a. Subrecipient requests for grant disbursement.
- b. A Status of Funds spreadsheet including details of funds expended.
- c. Documentation of subrecipient approved costs incurred (receipts, invoices, etc.).
- d. Approval or denial of request, including names and positions of reviewers and approvers.
- e. Documentation of payments made, including approvals, date, and time between request and approval.

- 3. Subrecipient Project Change Requests**

- a. For each request:
 1. A separate Project Change Request.

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2. A Status of Funds spreadsheet supporting the requested change.
3. Documentation of new pricing/costs (invoices, quotes, reason for additional labor/services, etc.).
4. Adjudication of approval, denial, or provisional approval and resubmission of any Project Change Requests and/or associated Status of Funds, including roles and responsibilities of approvers.

4. Subrecipient Semiannual Reporting

a. Financial Reporting

1. Semiannual financial report, including an updated Status of Funds reflecting the most recent half year's expended funds.
2. Reimbursement requests (as applicable, ordered by date and grouped behind the corresponding semiannual financial report).
3. Documentation about timeliness, including any missing reports - documentation of notification to subrecipient that report is overdue.
4. Reports not approved due to compliance issue - documentation to subrecipient of compliance issue, clarification of what is required to correct and potential impact on award.
5. Internal financial reports used for monitoring.
6. Proactive notification to subrecipient of any financial concerns.

b. Progress Reporting

1. Semiannual progress report, tied to approved program metrics.
2. Documentation if approved, request for additional information, etc.
3. Documentation about timeliness, including any missing reports - documentation of notification to subrecipient that report is overdue.
4. Reports not approved due to compliance issue - documentation to subrecipient of compliance issue, clarification of what is required to correct and potential impact on award.
5. Proactive notification of any progress concerns, including changes in key staff.

c. Semiannual Labor Requirements Report

1. Semiannual report confirming adherence to required labor standards.
2. Documentation if approved, request for additional information, etc.
3. Documentation about timeliness, including any missing reports - documentation of notification to subrecipient that report is overdue.
4. Documentation about any aspect not in compliance with federal or state standards - documentation of notification to subrecipient that report is not compliant.
5. Reports not approved due to compliance issue – documentation to subrecipient of compliance issue, clarification of what is required to correct and potential impact on award.

d. Semiannual Treasury Broadband Location Template

1. A completed template with the required information.
2. Documentation about timeliness, including any missing reports - documentation of notification to subrecipient that report is

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- overdue.
- 3. Reports not approved due to compliance issue - documentation to subrecipient of compliance issue, clarification of what is required to correct and potential impact on award.
- 4. Proactive notification to subrecipient of any broadband concerns.

- **Miscellaneous**

- Relevant internal and external correspondence, including notes and emails.
- Proactive notification of any key concerns, including staffing.
- Records on staff training, including compliance training, and key roles and responsibilities.
- Documentation of any risks, concerns, and mitigation plans.

2.16.3 Civil Rights and Nondiscrimination Certification

Check Box: *Certify that the Eligible Entity will account for and satisfy authorities relating to civil rights and nondiscrimination in the selection of subgrantees.*

The MBO will certify via checkbox that the selection of subgrantees will account for and satisfy:

- Parts II and III of Executive Order 11246, Equal Employment Opportunity
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency
- Executive Order 13798, Promoting Free Speech and Religious Liberty

The MBO will also include the following provisions in each subgrantee award agreement in order to abide by the non-discrimination requirement set forth in the following legal authorities:

- Title VI of the Civil Rights Act
- Title IX of the Education Amendments of 1972
- The Americans with Disabilities Act of 1990
- Section 504 of the Rehabilitation Act of 1973
- The Age Discrimination Act of 1975
- Any other applicable non-discrimination law(s)

2.16.4 Cybersecurity and Supply Chain Risk Management Requirements

Check Box: *Certify that the Eligible Entity will ensure subgrantee compliance with the cybersecurity and supply chain risk management requirements on pages 70 - 71 of the BEAD NOFO to require prospective subgrantees to attest that:*

The MBO will certify by checkbox that it will ensure subgrantee compliance with the cybersecurity and supply chain risk management requirements on pages 70-71 of the BEAD NOFO. Additional information on what will be required by each subgrantee during the prequalification period can be found throughout the rest of Section 2.16.4.

Cybersecurity

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1. The prospective subgrantee has a cybersecurity risk management plan (the plan) in place that is either: (a) operational, if the prospective subgrantee is providing service prior to the award of the grant; or (b) ready to be operationalized upon providing service, if the prospective subgrantee is not yet providing service prior to the grant award;

During the prequalification round, applicants must indicate via checkbox certification whether it has an operational plan or if there is a plan in creation. If a plan exists, the applicant must submit the plan as an attachment in accordance with 2.16.4 (4). If a plan does not yet exist, the applicant must commit to completing and providing the plan during the main round application. If a plan is not provided as part of the main round application, the application will be disqualified.

2. The plan reflects the latest version of the National Institute of Standards and Technology (NIST) Framework for Improving Critical Infrastructure Cybersecurity (currently Version 1.1) and the standards and controls set forth in Executive Order 14028 and specifies the security and privacy controls being implemented;

During the prequalification round, applicants must indicate via checkbox certification that their plans are in compliance with NIST standards.²³⁸

The MBO will validate that the cybersecurity plan meets the NIST standards.

3. The plan will be reevaluated and updated on a periodic basis and as events warrant; and

During the prequalification round, each applicant must indicate via checkbox certification that its cybersecurity risk management plan will be reevaluated and updated periodically and detail via narrative the anticipated timeline to complete those updates.

4. The plan will be submitted to the Eligible Entity prior to the allocation of funds. If the subgrantee makes any substantive changes to the plan, a new version will be submitted to the Eligible Entity within 30 days.

As noted in 2.16.4 (1), applicants with existing cybersecurity risk management plans must submit them during the prequalification period. If the plan has not yet been created, it must be submitted upon completion during the main round. The applicant must also indicate via checkbox certification that, if, at any time, it makes substantive changes to its plan, a new version will be submitted within 30 days of those changes being incorporated.

Supply Chain Risk Management (SCRM)

1. The prospective subgrantee has a SCRM plan in place that is either: (a) operational, if the prospective subgrantee is already providing service at the time of the grant; or (b) ready to be operationalized, if the prospective subgrantee is not yet providing service at the time of grant award;

During the prequalification round, applicants must indicate via checkbox certification whether it has an operational plan or if there is a plan in creation. If a plan exists, the applicant must submit the plan as an attachment in accordance with 2.16.4 (4). If a plan does not yet exist, the applicant must commit to completing and providing the plan during the main round.

2. The plan is based upon the key practices discussed in the NIST publication NISTIR 8276, Key Practices in Cyber Supply Chain Risk Management: Observations from Industry and

²³⁸ NIST Cybersecurity framework, <https://www.nist.gov/cyberframework>

related SCRM guidance from NIST, including NIST 800-161, Cybersecurity Supply Chain Risk Management Practices for Systems and Organizations and specifies the supply chain risk management controls being implemented;

During the prequalification round, applicants must indicate via checkbox certification that their plans are in compliance with NIST standards.²³⁹

3. The plan will be reevaluated and updated on a periodic basis and as events warrant; and

During the prequalification round, each applicant must indicate via checkbox certification that its supply chain risk management plan will be reevaluated and updated periodically and detail via narrative the anticipated timeline to complete those updates.

4. The plan will be submitted to the Eligible Entity prior to the allocation of funds. If the subgrantee makes any substantive changes to the plan, a new version will be submitted to the Eligible Entity within 30 days. The Eligible Entity must provide a subgrantee's plan to NTIA upon NTIA's request.

As noted in 2.16.4 (1), applicants with existing supply chain risk management plans must submit them during the prequalification period. If the plan has not yet been created, it must be submitted upon completion during the main round. The applicant must also indicate via checkbox certification that, if, at any time, it makes substantive changes to its plan, a new version will be submitted within 30 days of those changes being incorporated.

²³⁹ NIST Cybersecurity Supply Chain Risk Management, <https://csrc.nist.gov/Projects/cyber-supply-chain-risk-management>

2.17 Volume II Public Comment

2.17.1 Public Comment Period

Text Box: Describe the public comment period and provide a high-level summary of the comments received during the Volume II public comment period and how they were addressed by the Eligible Entity. The response must demonstrate:

- a. The public comment period was no less than 30 days; and
- b. Outreach and engagement activities were conducted to encourage feedback during the public comment period.

The Initial Proposal Volume II was posted for public comment for 56 days from September 28, 2023, until November 23, 2023. All public comments were submitted through the ConnectMT website and were thoroughly reviewed. Additionally, public commentary was received and considered by the Communications Advisory Commission (CAC) during public sessions on November 7, 2023, and October 11, 2023, in Helena and online through a public Zoom. Lastly, public comments were received by email by the MBO.

The MBO received 59 individual public comments for consideration and the following are what were incorporated into Montana's Initial Proposal Volume II:

- Consideration of the MBO to include ongoing stakeholder engagement and local coordination throughout the planning process through future virtual and in-person events, email notification and technical assistance webinars.
- Encourage potential subgrantee applicants to commit to prevailing wages (per Davis-Bacon) to receive an additional 2 points on their BEAD application.
- Encourage potential subgrantee applicants to coordinate with Montana and other regional / national apprenticeship programs.
- Support the use of a credentialed and skilled workforce through prequalification and main rounds of the application process.
- Allow potential subgrantee applicants to build their own project areas instead of using prescribed service areas by the MBO.
- Allow potential subgrantee applicants to not deconstruct CBGs while defining their project areas but allow them to highlight extremely high-cost locations that may be driving up the overall cost of the bid on their project area.
- Use the FCC's Broadband Rate Survey to help determine a low-cost plan approach and plans for middle-class affordability.
- Allow waivers for subgrantee letters of credit based on NTIA's latest guidance and public suggestion.
- Detail semiannual monitoring practices that will be conducted by the MBO and any contracted third-party support services.

2.17.2 Supplemental Materials Attachments

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Optional Attachment: As an optional attachment, submit supplemental materials to the Volume II submission and provide references to the relevant requirements. Note that only content submitted via text boxes, certifications, and file uploads in sections aligned to Initial Proposal requirements in the NTIA Grants Portal will be reviewed, and supplemental materials submitted here are for reference only.

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2.18 Appendices

2.18.1 Full discussion guides for Fall 2022 and Winter 2022-2023 stakeholder engagement sessions throughout Montana

Exhibit 59: Round 1 of Stakeholder Engagement in September 2022

Topic	Sub-topic
Challenges to community internet access	<ul style="list-style-type: none">○ Main challenges to getting high speed internet at home○ Montana's broadband map○ Existing efforts to expand internet access in the community○ Community internet needs
Technology preferences	<ul style="list-style-type: none">○ Preferred internet technology○ Preferred provider type
How government funds should be used to improve internet access in the community	<ul style="list-style-type: none">○ The most effective use of government funds○ How to determine which locations to prioritize for fiber○ How local communities should be involved in internet service provider applications for IIJA funds
Suggestions for state government (raised in ISP sessions only)	<ul style="list-style-type: none">○ How to ensure all feasible locations are served○ How can Montana prioritize locations to select○ Feasibility of public-private partnerships
Digital equity	<ul style="list-style-type: none">○ Challenges that prevent the community from achieving digital equity○ Existing digital equity programs or resources for community members○ Suggestions for how to improve digital equity in Montana
Feasibility for ISPs (raised in ISP sessions only)	<ul style="list-style-type: none">○ Feasible threshold for "low-cost" service○ Cost per location able to contribute from company funds
Grant applications (raised in ISP sessions only)	<ul style="list-style-type: none">○ How Montana could help ISPs apply○ What technical assistance would be helpful for applying
Providing internet service (raised in ISP sessions only)	<ul style="list-style-type: none">○ Participation in the Affordable Connectivity Program (ACP)○ Existing digital equity programs or resources○ Workforce

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Exhibit 60: Round 1 of Stakeholder Engagement in September 2022

Topic	Sub-topic
Barriers to connectivity (raised in ISP sessions only)	<ul style="list-style-type: none">Whether any barriers are missing
Broadband access strategies	<ul style="list-style-type: none">The drawbacks and benefits of each strategy.Which strategy is the best option.
Digital opportunity strategies	<ul style="list-style-type: none">Whether each strategy will work.Whether anything is missing from each strategy.
Strategies to further workforce development (raised in ISP and tribal sessions only)	<ul style="list-style-type: none">Anticipated challenges implementing this strategy.Whether anything is missing from this strategy.
Strategies to address supply chain challenges (raised in ISP sessions only)	<ul style="list-style-type: none">Anticipated challenges implementing this strategyWhether anything is missing from this strategy
Strategies to develop an equitable subgrantee process (raised in ISP sessions only)	<ul style="list-style-type: none">Discussion of potential subgrantee processes
Existing tribal awards	<ul style="list-style-type: none">Review existing tribal awards from other broadband programs

2.18.2 Stakeholder engagement survey methodology

The MBO developed two surveys for distribution across the state to gather input on how to close the digital divide in Montana. The Montana Internet Access Household Survey was designed for any Montanan over the age of 18, while the Montana Internet Access Community Leader Survey was designed for community groups (such as libraries, public health organizations, religious organizations, and chambers of commerce).

The survey was designed based on similar surveys fielded by other states, such as the North Carolina Broadband Survey and the Kansas Broadband Study. The survey covered the following topics:

- Availability of internet access at home and in the community
- Type of internet access at home, if any (including speeds)
- Reasons for internet use
- Awareness of internet subsidy programs such as ACP
- Reasons for lack of home internet access
- Assessment of affordable monthly price for high-speed home internet

Survey fielding. Both surveys followed the same fielding methodology. The survey was marketed through similar materials as created for the stakeholder engagement sessions. All materials

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included both a hyperlink to the survey as well as a QR code to enable respondents to access the survey on smartphones. Marketing materials included:

- Flyers for the general public and stakeholder populations
- Press releases
- Social media posts for Twitter, Instagram, and Facebook
- Email messaging tailored to state agencies and stakeholder populations
- Updated state website language

The survey was advertised during all Round 1 stakeholder engagement sessions, encouraging participants to take the survey and share with their communities. As described below in the survey limitations section, the MBO also provided computers during these sessions to allow participants to take the survey.

The survey field period lasted from August 24, 2022, to September 30, 2022 (for a total of five weeks). 1,622 complete responses were received for the Montana Internet Access Household Survey and 83 complete responses were received for the Montana Internet Access Community Leader Survey.

Survey limitations. Given a necessarily short fielding period, a paper survey option was not feasible. To mitigate the lower response rate given a web-only administration, the MBO created a QR link for each survey, to enable respondents with a smartphone to take the survey from a location where they can access the internet. In addition, the team brought computers with the survey to each in-person stakeholder engagement session, to allow participants to take the survey.

2.18.3 Individual/Household Survey Data Tables by Survey Question^{240,241}

There are 1,622 complete responses and no partial responses included in these results. Responses with invalid or missing zip codes were removed from the data.

2.18.3.1 Survey flow questions

Table 1: Do you have an internet connection at home?

Response	Count	Percent
Yes	1,560	96.2%
No	62	3.8%
TOTAL	1,622	100%

Table 2: Which of the following devices do you or others in your household use to connect to the internet, whether at home or somewhere else? Choose all that apply.

Device	Count ²⁴²	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
Desktop or laptop computer	1,538	31.1%	94.8%
Tablet device	1,184	24.0%	73.0%
Smartphone or cellphone that connects to the internet	1,544	31.3%	95.2%

²⁴⁰ * Indicates an “other” response, not provided in the list of response options.

²⁴¹ The percent columns may not add to 100 due to rounding.

²⁴² The first number in the total count represents the total number of *responses* and the second number represents the total number of *respondents*.

Device	Count ²⁴²	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
None of these	7	0.1%	0.4%
E-Readers*	9	0.2%	0.6%
Gaming*	124	2.5%	7.6%
General Internet of Things (IoT) Devices*	17	0.3%	1.0%
Miscellaneous*	8	0.2%	0.5%
Music Devices*	2	0.0%	0.1%
Other Home and Garden Appliances*	19	0.4%	1.2%
Personal Health & Medical Devices*	13	0.3%	0.8%
Security*	24	0.5%	1.5%
Smart Home Devices*	24	0.5%	1.5%
Streaming, TVs*	423	8.6%	26.1%
Unable to Access Internet*	1	0.0%	0.1%
No response/skipped	2	0.0%	0.1%
TOTAL	4,939 (1,622)	100%	N/A

* If responded “Yes” in Table 1, jump to Questions for Only Respondents that Have Home Internet Access, beginning with Table 3. If responded “No” or “I don’t know” in Table 1, jump to Questions for Only Respondents that Do Not Have Home Internet Access, beginning with Table 10.

2.18.3.2 Questions for only respondents who have home internet access

Table 3: What type of internet access do you have at home?

Internet Type	Count	Percent
Fixed service installed at home, such as cable or fiber-optic service provided by a cable or phone company	622	39.9%
DSL (digital subscriber line)	156	10.0%
Fixed wireless service	339	21.7%
Satellite internet service received through a satellite dish	353	22.6%
Dial-up service	6	0.4%
I don't know	48	3.1%
Hotspot*	18	1.2%
Cellular*	17	1.1%
No response/skipped	1	0.1%
TOTAL	1,560	100%

Table 4: What is your download speed?

Speed	Count	Percent
I don't know	319	20.4%
Slower than 25 Mbps	548	35.1%
Between 25 Mbps and 100 Mbps	450	28.8%
Faster than 100 Mbps	238	15.3%
No response/skipped	5	0.3%
TOTAL	1,560	100%

Table 5: What is your upload speed?

Speed	Count	Percent
I don't know	474	30.4%
Slower than 3 Mbps	311	19.9%
Between 3 Mbps and 20 Mbps	559	35.8%
Faster than 20 Mbps	213	13.7%
No response/skipped	3	0.2%
TOTAL	1,560	100%

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Table 6: Why do you not have high-speed internet?

High speed internet is defined as faster than 100 Mbps download speed and 20 Mbps upload speed.

*Question is only shown if respondents select “Slower than 25 Mbps” or “Between 25 Mbps and 100 Mbps” in Table 4 and “Slower than 3 Mbps” or “Between 3 Mbps and 20 Mbps” in Table 5.

Reason	Count	Percent
It is not available in my area	573	73.8%
It is not affordable	130	16.8%
I do not want or need high speed internet	9	1.2%
I don't know	26	3.4%
I do but it's not sufficient or doesn't work well*	22	2.8%
I don't know if it's available*	1	0.1%
Skeptical of Providers/It's a Hassle*	3	0.4%
I already do/thought I did*	7	0.9%
No response/skipped	5	0.6%
TOTAL	776	100%

Table 7: Are you aware of any internet subsidy programs, such as the Affordable Connectivity Program or the Emergency Broadband Benefit, that help cover monthly internet costs for qualifying households?

Response	Count	Percent
No, I am not aware of any programs	1,074	68.8%
Yes, I am aware, but I do not participate in any of these programs	429	27.5%
Yes, I am aware, and I do participate in one of these programs	57	3.7%
TOTAL	1,560	100%

**If responded “No, I am not aware of any programs” or “Yes, I am aware, and I do participate in one of these programs” in Table 7, skip to Table 9.*

Table 8: Why do you not participate in an internet subsidy program like the Affordable Connectivity Program?

Reason	Count	Percent
I am not eligible	343	80.0%
It is too difficult to apply	8	1.9%
My internet service provider does not participate in the program	16	3.7%
I applied and was rejected	4	0.9%
I don't know how to apply	27	6.3%
I don't want/need it*	5	1.2%
I am financially stable and can afford internet service without it*	6	1.4%
I haven't pursued it*	2	0.5%
I am going to apply*	1	0.2%
Internet service isn't expensive*	2	0.5%
I am not sure if I am eligible*	8	1.9%
There is no internet service provider in area*	3	0.7%
Unknown/NA*	2	0.5%
No response/skipped	2	0.5%
TOTAL	429	100%

DOCUMENT INTENDED TO PROVIDE INSIGHT BASED ON CURRENTLY AVAILABLE INFORMATION FOR CONSIDERATION AND NOT PRESCRIBE SPECIFIC ACTION

Table 9: Do you use the internet at any of the following places in your community? Choose all that apply.

Location	Count	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
My place of work	910	37.6%	58.3%
Library	298	12.3%	19.1%
Community center	57	2.4%	3.7%
Coffee shop or other local business	563	23.2%	36.1%
Park	107	4.4%	6.9%
Internet access is not available anywhere in my community	70	2.9%	4.5%
Airport/Travel*	3	0.1%	0.2%
Businesses*	20	0.8%	1.3%
Campgrounds*	4	0.2%	0.3%
Car/Bus*	9	0.4%	0.6%
Church*	11	0.5%	0.7%
Everywhere with internet access*	3	0.1%	0.2%
Family/Friend's house*	7	0.3%	0.4%
Home*	23	0.9%	1.5%
Hospital/Doctor's office*	9	0.4%	0.6%
Local government*	2	0.1%	0.1%
None*	5	0.2%	0.3%
Office*	8	0.3%	0.5%
On my phone*	18	0.7%	1.2%
School*	10	0.4%	0.6%
Visitor's center*	2	0.1%	0.1%
No response/skipped	284	11.7%	18.2%
TOTAL	2,423 (1,560)	100%	N/A

2.18.3.3 Questions for only respondents who do not have home internet access

Table 10: Why do you not have an internet connection at home? Choose all that apply.

Reason	Count	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
Can't afford the cost of an internet connection	26	27.1%	41.9%
Can't afford a computer, tablet, or other device to connect to the internet	2	2.1%	3.2%
Not worth the cost	7	7.3%	11.3%
Can use the internet elsewhere	6	6.3%	9.7%
Internet connection not available in the area	35	36.5%	56.5%
Don't know how to use the internet	1	1.0%	1.6%
Using the internet is too difficult	1	1.0%	1.6%
Don't want or need the internet	0	0.0%	0.0%
Don't have a computer or device to access the internet	1	1.0%	1.6%
Online privacy or cybersecurity concerns	3	3.1%	4.8%
Personal safety concerns	1	1.0%	1.6%
Household moved or is in the process of moving	2	2.1%	3.2%
Century Link is the least expensive option and they do not offer it*	1	1.0%	1.6%
Currently hotspot off phone. Limited local internet available*	1	1.0%	1.6%
Mountainous terrain, the one company that says they provide internet service is consistently less than 2MB download speeds. There is no cellular service either, so a borrowed hotspot from the public library doesn't work either. *	1	1.0%	1.6%
No providers available*	1	1.0%	1.6%
Satellite is only option, too expensive to set up*	1	1.0%	1.6%
Unable to connect to internet*	1	1.0%	1.6%
Unable to find who services this area*	1	1.0%	1.6%
No broadband in my area*	1	1.0%	1.6%
Not good service where we are at*	1	1.0%	1.6%

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Reason	Count	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
Only one service provider in the area and have been trying for 3 plus months to get internet installed to no available*	1	1.0%	1.6%
Too spotty and constantly interrupted*	1	1.0%	1.6%
TOTAL	96 (62)	100%	N/A

Table 11: Do you access the internet at any of the following places in your community? Choose all that apply.

Location	Count	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
My place of work	23	25.3%	37.1%
Library	26	28.6%	41.9%
Community center	2	2.2%	3.2%
Coffee shop or other local business	22	24.2%	35.5%
Park	0	0.0%	0.0%
I do not access the internet at any location	5	5.5%	8.1%
Friend/Family*	4	4.4%	6.5%
Hotspot*	6	6.6%	9.7%
I don't know*	1	1.1%	1.6%
Travels out of town*	2	2.2%	3.2%
TOTAL	91 (62)	100%	N/A

2.18.3.4 Questions for all respondents

Table 12: Why do you or others in your household use the internet? Choose all that apply.

Activity	Count	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
To work	1,218	11.8%	75.1%
To attend classes or complete coursework for kindergarten through high school	341	3.3%	21.0%
To attend classes or complete coursework for higher education (including certification programs and college)	492	4.7%	30.3%
To schedule or attend healthcare appointments, or to get medication	1,120	10.8%	69.1%
Online shopping	1,528	14.7%	94.2%
To access entertainment (such as watching videos)	1,400	13.5%	86.3%
Staying connected with family and friends	1,469	14.2%	90.6%
To access government services (such as the Motor Vehicle Division; burning, fishing, or hunting permits; unemployment benefits; or nutrition assistance programs)	1,327	12.8%	81.8%
Access financial services	1,336	12.9%	82.4%
Additional entertainment*	5	0.0%	0.3%
Business purposes (email, meetings, small businesses) *	18	0.2%	1.1%
Education*	10	0.1%	0.6%
Fitness*	1	0.0%	0.1%
Games*	12	0.1%	0.7%
Health care*	2	0.0%	0.1%
I use the internet for everything*	6	0.1%	0.4%
Meetings*	2	0.0%	0.1%
N/A*	3	0.0%	0.2%
News*	20	0.2%	1.2%
Pay bills*	4	0.0%	0.2%
Phone/keep in contact with friends & family*	7	0.1%	0.4%

DOCUMENT INTENDED TO PROVIDE INSIGHT BASED ON CURRENTLY AVAILABLE INFORMATION FOR CONSIDERATION AND NOT PRESCRIBE SPECIFIC ACTION

Activity	Count	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
Reading*	4	0.0%	0.2%
Research*	17	0.2%	1.0%
Responding to surveys*	2	0.0%	0.1%
Security*	2	0.0%	0.1%
Smart devices*	3	0.0%	0.2%
Streaming services*	4	0.0%	0.2%
TV*	3	0.0%	0.2%
No response/skipped	8	0.1%	0.5%
TOTAL	10,364 (1,622)	100%	N/A

Table 13: How confident are you in your ability to complete the following activities?

Activity	Very confident	Somewhat confident	Not very confident	Not at all confident	No Response /Skipped
Saving downloaded files	1,212 74.7%	310 19.1%	75 4.6%	21 1.3%	4 0.2%
Opening downloaded files	1,221 75.3%	308 19.0%	72 4.4%	13 0.8%	8 0.5%
Searching for information online	1,297 80.0%	272 16.8%	38 2.3%	8 0.5%	7 0.4%
Knowing what information is safe to share online	963 59.4%	494 30.5%	128 7.9%	22 1.4%	15 0.9%

Table 14: How important is it to you to have a local service provider (now or in the future), instead of a large provider that services many states?

Response	Count	Percent
Very important	863	53.2%
Somewhat important	467	28.8%
Not very important	196	12.1%
Not at all important	90	5.5%
No response/skipped	6	0.4%
TOTAL	1,622	100%

Table 15: How much are you or your household willing to pay for reliable high speed internet service in your home?

For example, for at least two or more users to regularly stream high-definition video, use videoconferencing, participate in online gaming, or work from home.

Dollar amount	Count	Percent
Under \$10	15	0.9%
\$10 - \$25	50	3.1%
\$26 - \$50	339	20.9%
\$51 - \$75	570	35.1%
\$76 - \$100	438	27.0%
More than \$100	203	12.5%
No response/skipped	7	0.4%
TOTAL	1,622	100%

2.18.3.5 Demographic questions

Table 16: Do you live on a reservation?

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Response	Count	Percent
Yes	89	5.5%
No	1,526	94.1%
No response/skipped	7	0.4%
TOTAL	1,622	100%

Table 17: On which reservation do you live?

*Question is only shown if respondents selected “Yes” in Table 16.

Reservation	Count	Percent
Blackfeet Tribe of the Blackfeet Reservation	7	7.9%
Chippewa Cree Tribe of the Rocky Boy’s Reservation	4	4.5%
Confederated Salish & Kootenai Tribes of the Flathead Reservation	30	33.7%
Crow Tribe of the Crow Reservation	14	15.7%
Fort Belknap Tribes of the Fort Belknap Reservation	14	15.7%
Fort Peck Tribes of the Fort Peck Reservation	19	21.3%
Little Shell Chippewa Tribe	0	0.0%
Northern Cheyenne Tribe of the Northern Cheyenne Reservation	1	1.1%
TOTAL	89	100%

Table 18: Do any of the following historically underserved populations describe you? Choose all that apply.

Population	Count	Percent (Total Number of Responses)	Percent (Total Number of Respondents)
Aged 60 or older	677	34.6%	41.7%
Veteran	251	12.8%	15.5%
Individual with a disability (mental or physical)	182	9.3%	11.2%
Non-native English speaker	23	1.2%	1.4%
Currently Incarcerated	0	0.0%	0.0%
Racial or Ethnic minority (such as Native American, Black, Hispanic, Asian, etc.)	126	6.4%	7.8%
None of these	656	33.5%	40.4%
No response/skipped	41	2.1%	2.5%
TOTAL	1,956 (1,622)	100%	N/A

2.18.4 Community leader survey data tables by survey question^{243, 244}

There are 83 complete responses and 11 partial responses included in these results. Responses with invalid or missing zip codes were removed from the data.

2.18.4.1 Demographic questions

Table 1: Which of the following best describes your community group?

Community Group	Count	Percent
Adult education or literacy organization	3	3.2%

²⁴³ An asterisk (*) indicates an “other” response, not provided in the list of response options.

²⁴⁴ The percent columns may not add to 100 due to rounding.

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Community Group	Count	Percent
Advocacy group	0	0.0%
Chamber of commerce	6	6.4%
Education organization serving pre-kindergarten through high school students	4	4.3%
Higher education organization	4	4.3%
Internet service provider	13	13.8%
Labor organization	3	3.2%
Local government	30	31.9%
Nonprofit organization	17	18.1%
Public health organization (including health clinics)	2	2.1%
Public library	8	8.5%
Religious or faith-based organization	0	0.0%
Tribal government	0	0.0%
Veterans' association (such as the American Legion)	0	0.0%
Agriculture*	1	1.1%
Economic Development Organization*	1	1.1%
State Government*	2	2.1%
TOTAL	94	100%

Table 2: Is your organization located on or does it serve a reservation?

Response	Count	Percent
Yes	20	21.3%
No	73	77.7%
No response/skipped	1	1.1%
TOTAL	94	100%

**If “No”, jump to Table 4.*

Table 3: On which reservation is your organization located or does it serve?

Reservation	Count	Percent
Blackfeet Tribe of the Blackfeet Reservation	1	5.0%
Chippewa Cree Tribe of the Rocky Boy's Reservation	2	10.0%
Confederated Salish & Kootenai Tribes of the Flathead Reservation	4	20.0%
Crow Tribe of the Crow Reservation	0	0.0%
Fort Belknap Tribes of the Fort Belknap Reservation	2	10.0%
Fort Peck Tribes of the Fort Peck Reservation	9	45.0%
Little Shell Chippewa Tribe	0	0.0%
Northern Cheyenne Tribe of the Northern Cheyenne Reservation	2	10.0%
TOTAL	20	100%

2.18.4.2 Questions about the entire community

Table 4: To the best of your knowledge, what percent of residents in the community where your organization is located, or areas your organization serves, have an internet connection at home? Your best guess is fine.

Range	Count	Percent
Less than 10%	0	0.0%
10% - 25%	2	2.1%
26% - 50%	11	11.7%
51% - 75%	41	43.6%
76% - 100%	23	24.5%
I don't know	12	12.8%
No response/skipped	5	5.3%
TOTAL	94	100%

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CONSIDERATION AND NOT PRESCRIBE SPECIFIC ACTION

Table 5: To the best of your knowledge, why don't some residents have an internet connection at home? Choose all that apply.

Reasons	Count ²⁴⁵	Percent (Total Number of Responses)	Percent (Total Number of Eligible Respondents)
Can't afford the cost of an internet connection	71	21.0%	75.5%
Can't afford a computer, tablet, or other device to connect to the internet	49	14.5%	52.1%
Not worth the cost	13	3.8%	13.8%
Can use the internet elsewhere	19	5.6%	20.2%
Internet connection not available in the area	44	13.0%	46.8%
Don't know how to use the internet	26	7.7%	27.7%
Using the internet is too difficult	14	4.1%	14.9%
Don't need or want the internet	29	8.6%	30.9%
Don't have a computer or device to access the internet	41	12.1%	43.6%
Online privacy or cybersecurity concerns	14	4.1%	14.9%
Personal safety concerns	3	0.9%	3.2%
Household moved or is in the process of moving	2	0.6%	2.1%
Internet in this area is poor and has lots of issues*	1	0.3%	1.1%
Larger publicly traded companies have failed to invest in Montana's rural communities*	1	0.3%	1.1%
Over 90% of have internet*	1	0.3%	1.1%
Rural Area*	2	0.6%	2.1%
There is no fiber service to our specific area, we provide a WISP*	1	0.3%	1.1%
No response/skipped	7	2.1%	7.4%
TOTAL	338 (94)	100%	N/A

Table 6: To the best of your knowledge, what is the most common reason why a resident does not have an internet connection at home?²⁴⁶

Reasons	Count ²⁴⁷	Percent (Total Number of Responses)	Percent (Total Number of Eligible Respondents)
Can't afford the cost of an internet connection	39	28.3%	41.5%
Can't afford a computer, tablet, or other device to connect to the internet	18	13.0%	19.1%
Not worth the cost	5	3.6%	5.3%
Can use the internet elsewhere	5	3.6%	5.3%
Internet connection not available in the area	29	21.0%	30.9%
Don't know how to use the internet	6	4.3%	6.4%
Using the internet is too difficult	1	0.7%	1.1%
Don't need or want the internet	10	7.2%	10.6%
Don't have a computer or device to access the internet	8	5.8%	8.5%
Online privacy or cybersecurity concerns	1	0.7%	1.1%
Personal safety concerns	1	0.7%	1.1%
Household moved or is in the process of moving	1	0.7%	1.1%
Internet in this area is poor and has lots of issues*	1	0.7%	1.1%
Rural area*	2	1.4%	2.1%
Larger publicly traded companies have failed to invest in Montana's rural communities*	1	0.7%	1.1%
No response/skipped	10	7.2%	10.6%
TOTAL	138 (94)	100%	N/A

²⁴⁵ The first number in the total count represents the total number of *responses* and the second number represents the total number of *respondents*.

²⁴⁶ Only responses recorded in **Table 5** were shown to participants.

²⁴⁷ The first number in the total count represents the total number of *responses* and the second number represents the total number of *respondents*.

Table 7: Is internet access available at any of the following places in the community where your organization is located, or the area which your organization serves? Choose all that apply.

Locations	Count ²⁴⁸	Percent (Total Number of Responses)	Percent (Total Number of Eligible Respondents)
Library	79	40.3%	84.0%
Community center	26	13.3%	27.7%
Coffee shop or other local business	61	31.1%	64.9%
Park	5	2.6%	5.3%
Internet access is not available anywhere in my community	2	1.0%	2.1%
Additional local businesses*	2	1.0%	2.1%
Campgrounds*	2	1.0%	2.1%
Educational center/institution*	8	4.1%	8.5%
Golf course*	1	0.5%	1.1%
Health center*	1	0.5%	1.1%
ISP office*	2	1.0%	2.1%
Non-profit organization*	1	0.5%	1.1%
No response/skipped	6	3.1%	6.4%
TOTAL	196 (94)	100%	N/A

2.18.4.3 Questions about the organization's members or clients

Table 8: To the best of your knowledge, what percent of your organization's members or clients have an internet connection at home? Your best guess is fine.

Range	Count	Percent
Less than 10%	0	0.0%
10% - 25%	1	1.1%
26% - 50%	11	11.7%
51% - 75%	17	18.1%
76% - 100%	44	46.8%
I don't know	10	10.6%
No response/skipped	11	11.7%
TOTAL	94	100%

Table 9: To the best of your knowledge, why don't some of your organization's members or clients have an internet connection at home? Choose all that apply.

Reasons	Count ²⁴⁹	Percent (Total Number of Responses)	Percent (Total Number of Eligible Respondents)
Can't afford the cost of an internet connection	39	16.9%	41.5%
Can't afford a computer, tablet, or other device to connect to the internet	27	11.7%	28.7%
Not worth the cost	13	5.6%	13.8%
Can use the internet elsewhere	20	8.7%	21.3%
Internet connection not available in the area	39	16.9%	41.5%
Don't know how to use the internet	10	4.3%	10.6%
Using the internet is too difficult	8	3.5%	8.5%
Don't need or want the internet	18	7.8%	19.2%
Don't have a computer or device to access the internet	24	10.4%	25.5%

²⁴⁸ The first number in the total count represents the total number of *responses* and the second number represents the total number of *respondents*.

²⁴⁹ The first number in the total count represents the total number of *responses* and the second number represents the total number of *respondents*.

Reasons	Count ²⁴⁹	Percent (Total Number of Responses)	Percent (Total Number of Eligible Respondents)
Online privacy or cybersecurity concerns	5	2.2%	5.3%
Personal safety concerns	2	0.9%	2.1%
Household moved or is in the process of moving	3	1.3%	3.2%
All members have internet*	2	0.9%	2.1%
Can't be a member without subscribing to service*	1	0.4%	1.1%
Unreliable internet service*	1	0.4%	1.1%
No response/skipped	19	8.2%	20.2%
TOTAL	231 (94)	100%	N/A

Table 10: To the best of your knowledge, what is the most common reason why some of your organization's members or clients do not have an internet connection at home?²⁵⁰

Reasons	Count ²⁵¹	Percent (Total Number of Responses)	Percent (Total Number of Eligible Respondents)
Can't afford the cost of an internet connection	26	23.4%	27.7%
Can't afford a computer, tablet, or other device to connect to the internet	8	7.2%	8.5%
Not worth the cost	5	4.5%	5.3%
Can use the internet elsewhere	6	5.4%	6.4%
Internet connection not available in the area	28	25.2%	29.8%
Don't know how to use the internet	2	1.8%	2.1%
Using the internet is too difficult	0	0.0%	0.0%
Don't need or want the internet	4	3.6%	4.3%
Don't have a computer or device to access the internet	7	6.3%	7.4%
Online privacy or cybersecurity concerns	0	0.0%	0.0%
Personal safety concerns	0	0.0%	0.0%
Household moved or is in the process of moving	0	0.0%	0.0%
Can't be a member without subscribing to service*	1	0.9%	1.1%
All members have internet*	1	0.9%	1.1%
No response/skipped	23	20.7%	24.5%
TOTAL	111 (94)	100%	N/A

²⁵⁰ Only responses recorded in Table 9 were shown to participants.

²⁵¹ The first number in the total count represents the total number of *responses* and the second number represents the total number of *respondents*.