





MONTANA

BEAD Program Impact Assessment

1 Eligible Locations

How many unserved/underserved locations are eligible for BEAD funding?

29% 142K LOCATIONS

OF MONTANA LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023

VS. 9% STATE/TERRITORY AVERAGE

UNSERVED LOCATIONS, JUN. 2024



61.5K LOCATIONS

Are estimated to lack broadband access at **25/3 Mbps**

UNDERSERVED LOCATIONS, JUN. 2024



37.4K

Are estimated to lack broadband access at **100/20 Mbps**

These locations are primarily in rural areas and are eligible for BEAD funding to deploy broadband service.

Total Funding

How much capital funding is the State/Territory estimated to have?

\$629M

IN BEAD FUNDING HAS BEEN ALLOCATED TO MONTANA

VS. \$743M STATE/TERRITORY AVERAGE

ESTIMATED BEAD FUNDING:

BEAD Funds allocated by NTIA

\$629M

Estimated Provider Match

\$296M

Estimated Total Capital

\$925M

The provider match is estimated using a high-level service provider business case. See national summary deck for full details.

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Deployment

How many locations can be covered with fiber and other technologies?

\$269M-` \$629M OF BEAD FUNDS IS REQUIRED TO BUILD HIGH-SPEED BROADBAND TO ALL ELIGIBLE LOCATIONS

DEPLOYMENT SCENARIOS:



Baseline Fiber Maximum Fiber

100%
LOCATIONS
REACHED

29%
FIBER
LOCATIONS

100%
LOCATIONS
REACHED

37%
FIBER
LOCATIONS

\$566M TOTAL CAPITAL COST

\$360M REMAINING BUDGET \$925M
TOTAL CAPITAL COST

Ś--M

REMAINING BUDGET

Estimate Eligible Locations

Montana | Estimated Eligible Locations for BEAD Projects

| | Unserved (less than 25Mbps/3Mbps) | Underserved (less than 100Mbps/20Mbps) | Location Distribution in June 2024 | |
|--|---|--|---|--|
| June 2023 FCC Broadband Locations | 95.1K | 47.1K | Served Underserved Unserved 488.0K | |
| Subsidy Program Funded Locations¹ | 24.4K | 9.7K | 98.9K B 37.4K 7.7% of locations are underserved | |
| Incremental Build ² (13% annual build, for 12 months) | 9.2K | | 98.9K 12.6% of locations are unserved Montana | |
| Jun. 2024 Estimated Eligible Locations | 61.5K A | 37.4K B | We estimate 20% of locations will be eligible for BEAD Project Funding in Montana | |

^{1.} Locations with "commitments" to receive support from federal subsidy programs

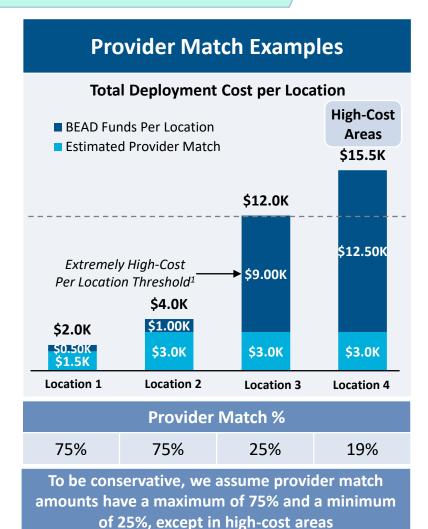


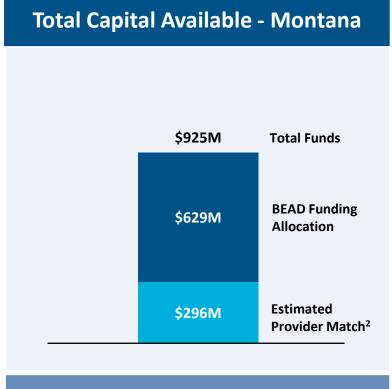


^{2.} Given the uncertainty around the magnitude of locations moving from unserved to underserved, we have not made incremental builds adjustments to underserved locations BEAD eligible locations does not account for state-specific eligibility rules set forth in Initial Proposals Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023)

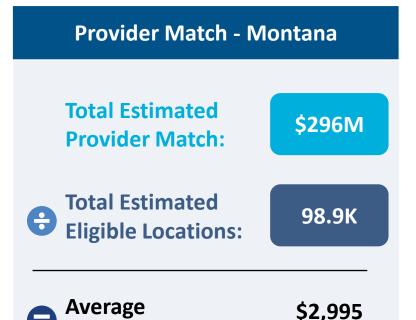
Calculate BEAD **Funding**

Montana | BEAD Funding & Estimated Provider Match









We estimate the average provider match will be \$2,995 – provider matches will be 75% where cost to deploy is less than \$4K

PER LOCATION

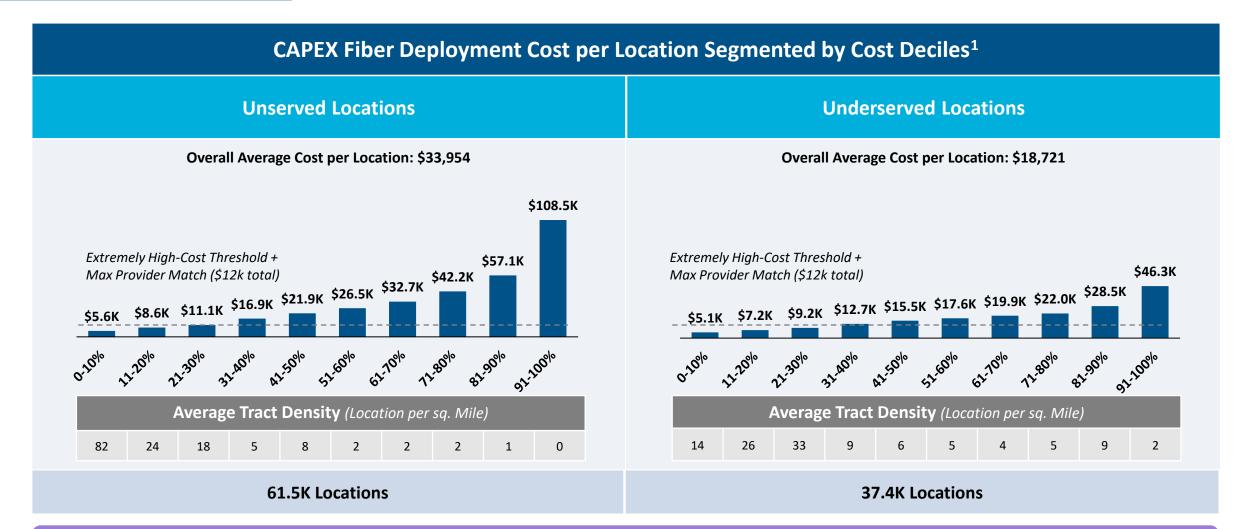




Provider Match:

^{1.} The model uses a \$9k threshold, however, States/Territories will individually need to determine their appropriate extremely high-cost threshold

^{2.} In reality, providers will determine the viable level of match funding for each project using a business case model. They will be willing to contribute a greater match in some locations and less in others. Locations which are hardest to serve may need to be fully funded by BEAD with no match. Competitive bidding should drive provider matches towards this level. Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023), Benton, NTIA



Over 30% of locations are estimated to fall below the High-Cost Threshold + Provider Match



SCENARIO:

1 Base

Baseline Fiber Deployment

PRIMARY ACCESS TECHNOLOGY:

Below High-Cost Threshold

Above High-Cost Threshold

FIBER

FIXED WIRELESS

Fiber is first deployed to unserved locations below extremely high-cost threshold, from least expensive to most



If there are funds leftover...

Unserved locations above the extremely high-cost threshold are then served with fixed wireless



If there are funds leftover...

Remaining funds used to deploy fiber to as many underserved locations below the high-cost threshold, while retaining enough funds to serve remaining underserved locations with fixed wireless

OUTCOME:

FUNDING

PRIORITIZATION:



More funding for other eligible programs

2 Maximum Fiber Deployment¹

Below High-Cost Threshold

Above High-Cost Threshold

FIBER

FIBER & FIXED WIRELESS

Fiber is deployed to low-cost areas first across both unserved and underserved locations

Model optimizes to maximize fiber locations and achieve full coverage within budget

As many locations as possible are served with fiber, while leaving budget for fixed wireless when 100% fiber coverage is not possible

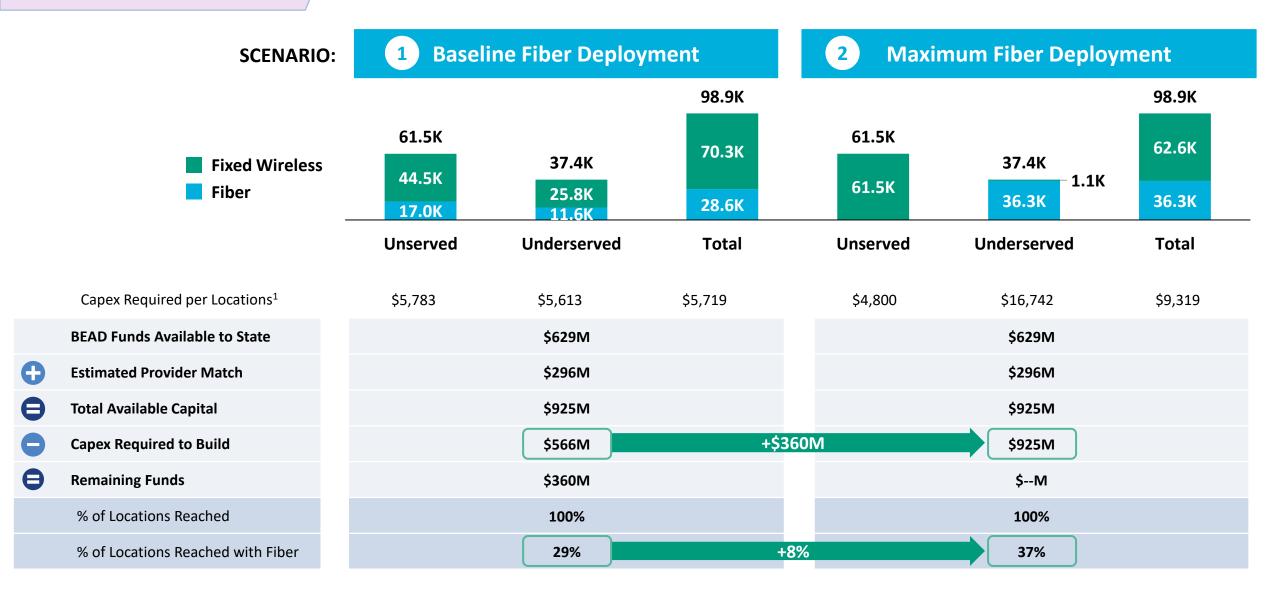


More locations reached with fiber



Develop Deployment Scenarios

Montana | Scenario Analysis Results



^{1.} Funding to deploy fiber before the maximum \$3k provider match per location

Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023), Benton, NTIA

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Montana | Conclusion



Funding Summary

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Key Findings

Montana is expected to receive

\$629M in BEAD funding



\$296M in estimated provider matching

We estimate the funding is sufficient to reach all of Montana's 98.9k eligible locations with high-speed broadband

Montana will need to decide how far to deploy fiber while considering the trade-off of having higher fiber coverage vs. retaining funds for other BEAD eligible programs

A Baseline Fiber Deployment...



Maximizing Fiber...

- Leaves \$360M additional funds for affordability programs
- Reaches 29% of locations with fiber
- Requires 71% to be reached with other tech.

- Exhausts funds without leaving additional funds for affordability programs
- Reaches 37% of locations with fiber
- Requires 63% to be reached with other tech.

States/Territories will set their own extremely high-cost threshold and may choose a threshold or funding paradigm different from these two scenarios

Montana | ACA Connects Members

| Member Name |
|--|
| Bridger Cable TV |
| Caribbean Communications Corp dba Innovative Cable |
| Communitytel, Inc. |
| Consolidated Communications, Inc. |
| El Automation, Inc. |
| Northwest Fiber, LLC |
| Reservation Telephone Cooperative |
| Siyeh Corporation dba Starlink Cable |
| TDS Telecom |
| Tri County Telephone Association, Inc. |
| West River Cooperative Cable TV |





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