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NEBRASKA BROADBAND MAPPING AND PLANNING GRANT



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Project History

- Fall of 2008 –
 - Congress enacts the Broadband Data Improvement Act (BDIA)
 - Intent is to provide funding to eligible entities in each state for mapping broadband and to support planning activities
 - Funding was not appropriated with enactment of the BDIA



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Project History continued

- February 2009 –
 - Congress enacts the American Recovery and Reinvestment Act (ARRA - the Stimulus Bill)
 - Appropriates \$350 million to fund the BDIA for five years



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Project History continued

- February 2009 – continued
 - \$7.4 billion was appropriated to fund grants/loans for broadband infrastructure projects funded through the National Telecommunications and Information Administration (NTIA) (Dept. of Commerce) and Rural Utilities Service (RUS) (Dept. of Agriculture)



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Project History continued

- July 2009 –
 - NTIA issues the Notice Of Funds Available (NOFA) for mapping/planning grant funding
 - Governor Heineman designates the Nebraska Public Service Commission (NPSC) to serve as the designated entity for the State of Nebraska to apply for Mapping and Planning grant money



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Project History continued

- August 2009 –
 - NPSC determines that agency can manage mapping portion of project, but lack staff resources/expertise to undertake the Planning Project
 - Relationship formed with Nebraska Department of Economic Development (DED), Nebraska Information and Technology Commission (NITC), and University of Nebraska – Lincoln (UNL) who developed the State's planning effort



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Project History continued

- August 2009 – continued
 - NPSC files application with NTIA to secure funding for the mapping/planning effort
 - NPSC also releases a Request for Proposal (RFP), using State Purchasing, seeking a vendor to assist in the mapping effort



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Project History continued

- Fall 2009 –
 - The State designee's were notified by the NTIA that the original grant program of five years was to be reduced to a two year grant with the possibility of three additional years of funding at a later date.



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Project History continued

- January 2010 -
 - NTIA awarded NPSC a grant of \$2.1 million for years 1 and 2
 - \$1.6 million for the Mapping Project and
 - \$0.5 million for the Planning Project
 - AIM Institute joined planning team



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Project History continued

- May 2010 –
 - NTIA notified Grantees that they were now prepared to entertain supplemental application requests for years 3 - 5 of the original grant period authorized by Congress
 - The NPSC and the Planning Team had 30 days to prepare the supplemental grant proposal



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Project History continued

- September 2010 –
 - NPSC notified by the NTIA that Nebraska had been awarded a supplemental grant of approximately \$3.5 million for years 3-5
 - \$1.5 million for continuation of the Mapping effort and
 - \$2.0 million for the Planning effort



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Project History continued

- September 2010 – continued
 - Revised budget for the supplemental grant submitted on February 21, 2011
 - Awaiting final approval of the award by the NTIA



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Mapping Project Components

- Initial activity was identification of broadband providers coupled with drafting and executing non-disclosure agreements (NDA's)
- Followed by development of data models, collection tools, and collection of data from providers willing to participate in the project
- After data is provided it must be verified and plotted
- Twice a year data is updated and submitted to NTIA



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Mapping Project Challenges

- No ability to compel data from providers in a uniform format (voluntary participation)
- NTIA has not been consistent in program requirements/process
- Commission internal resources have been stretched by evolving grantee workload



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Identification of Providers

| | |
|---|-------------------|
| FCC 477 submitters, NE Certificated LEC, Non-NE Certificated LEC, Registered Communications Providers (ISPs, Cellular Providers, Fixed & Mobile Wireless) | 283 |
| After extensive research some of original list were identified as subsidiary's or did not provide internet service | <159> |
| Non Disclosure Agreement sent to potential ISPs | 124 |
| During NDA process some ISPs were determined to be resellers Known ISPs refused to participate | -41 -2 <43> |
| Data Request sent to remaining ISPs | 81 |
| ISPs that responded with data for Round 1 | 66 |
| ISPs that responded with data for Round 2 | 65 |



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Mapping Project Key Dates

- Initial dataset provided to the NTIA in June, 2010
 - Update to original data provided October 1, 2010
 - Currently finalizing data for submission in April, 2011
 - Second data submission for 2011 due September and will complete data collection for years 1 & 2
-
- Nebraska Map: <http://broadbandmap.nebraska.gov>
 - National Map: www.broadbandmap.gov



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Nebraska Broadband Map

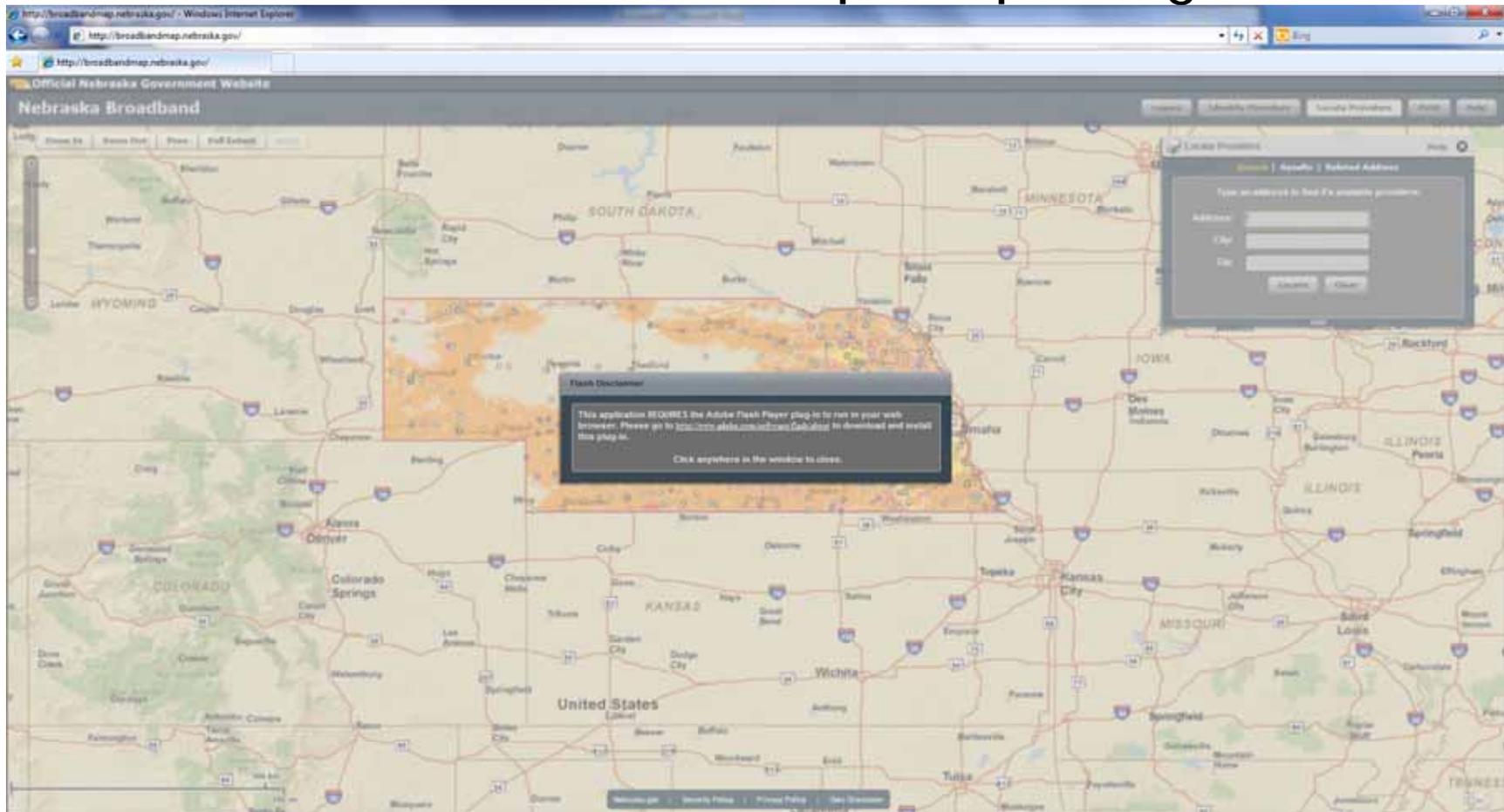
- <http://broadbandmap.nebraska.gov>
- Following series of slides provides an overview of the Nebraska Broadband Map capabilities and tools



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Nebraska Broadband Map – Opening Screen

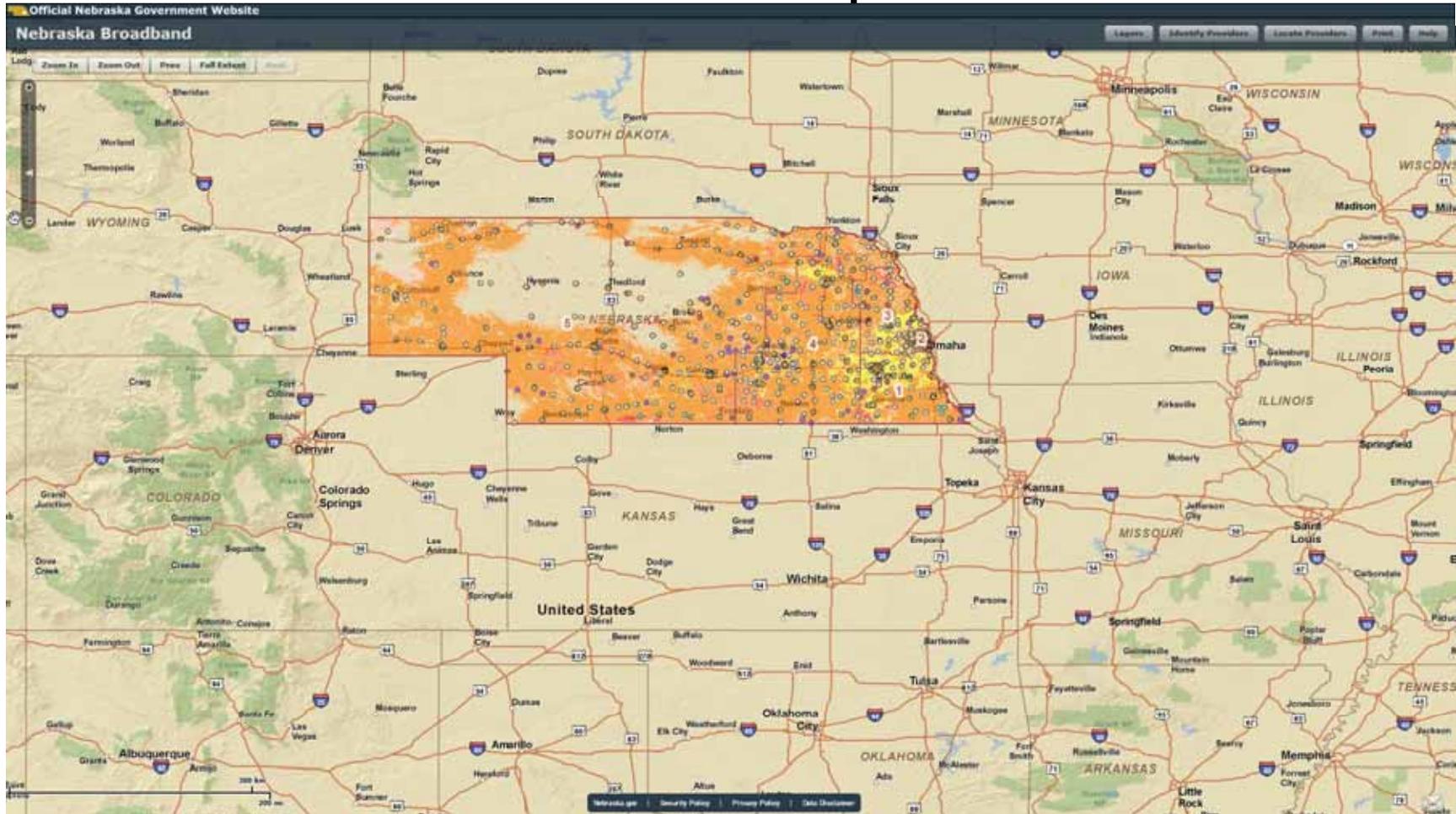




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Nebraska Broadband Map – Basic Controls





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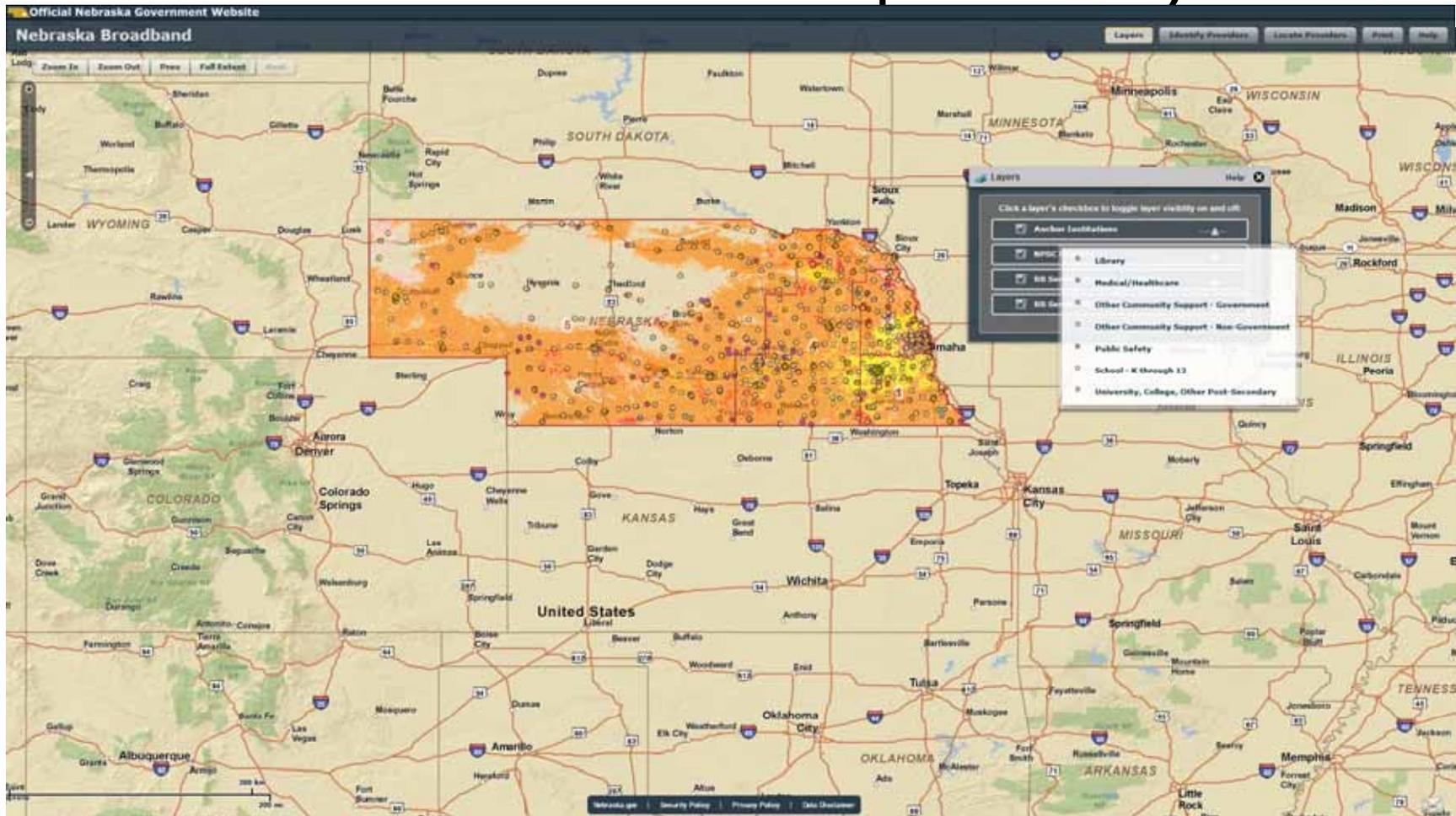
Nebraska Broadband Map - Layers



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Nebraska Broadband Map – CAI Symbols

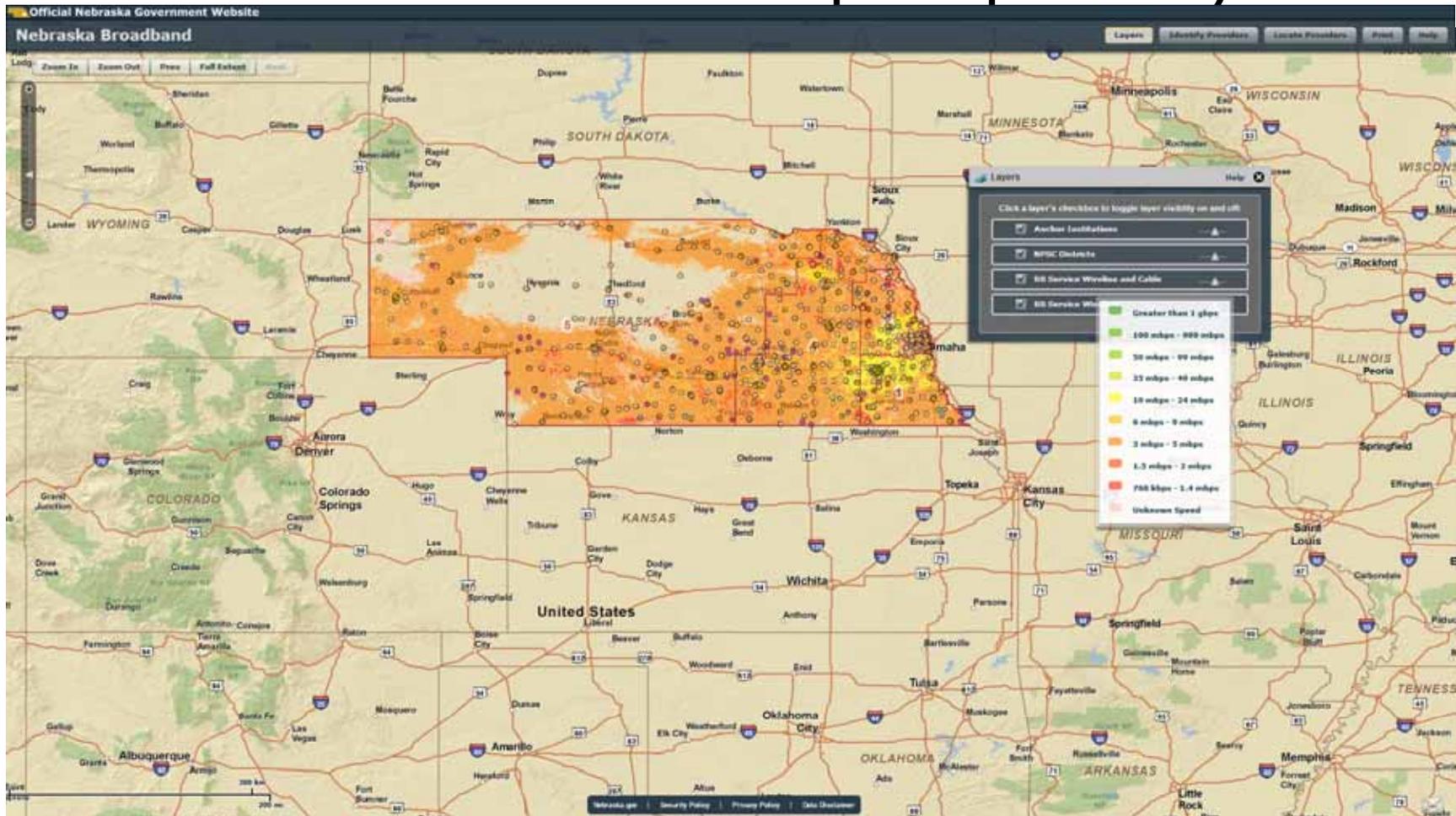




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Nebraska Broadband Map – Speed Symbols

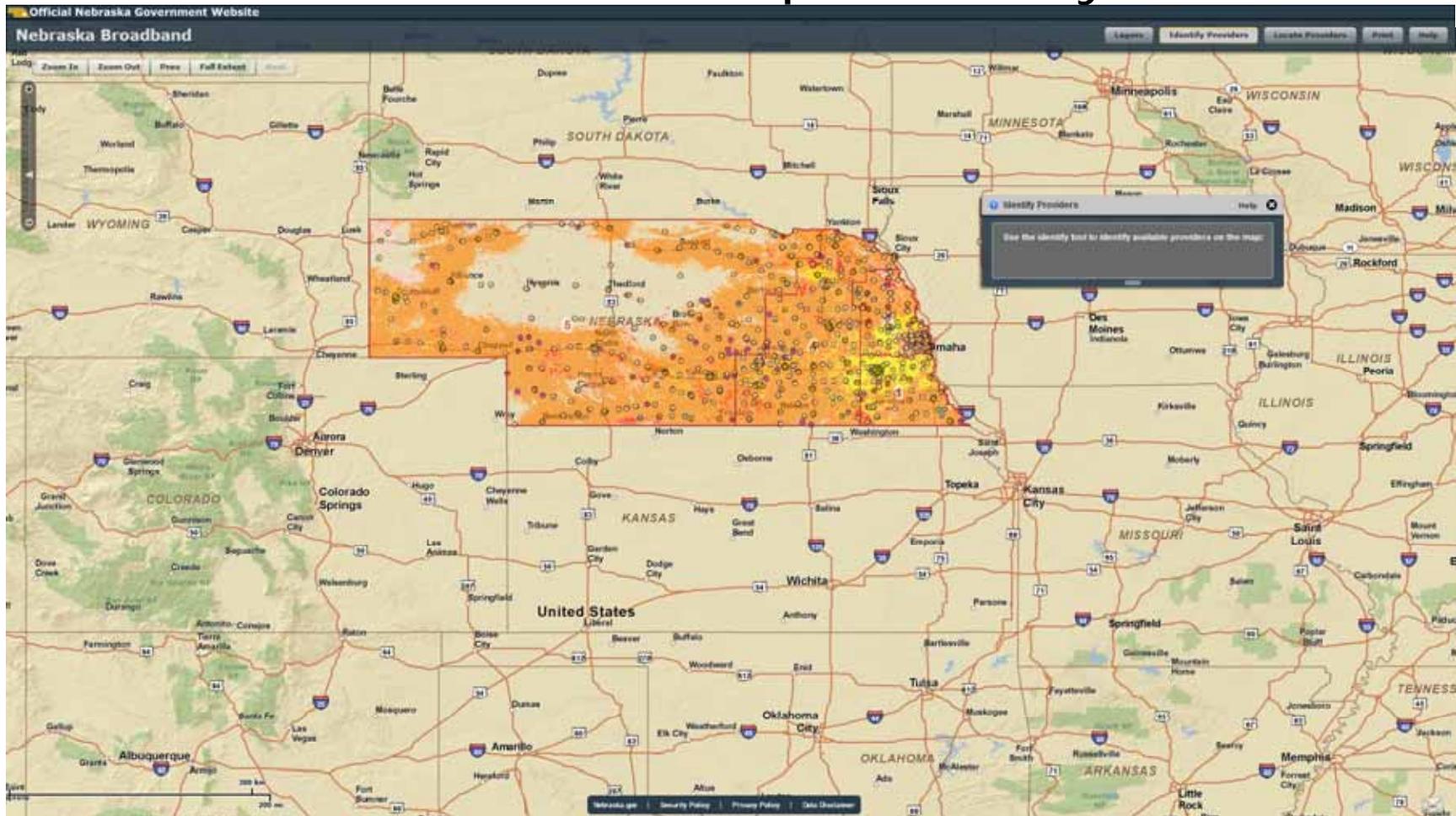




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Nebraska Broadband Map – Identify Providers





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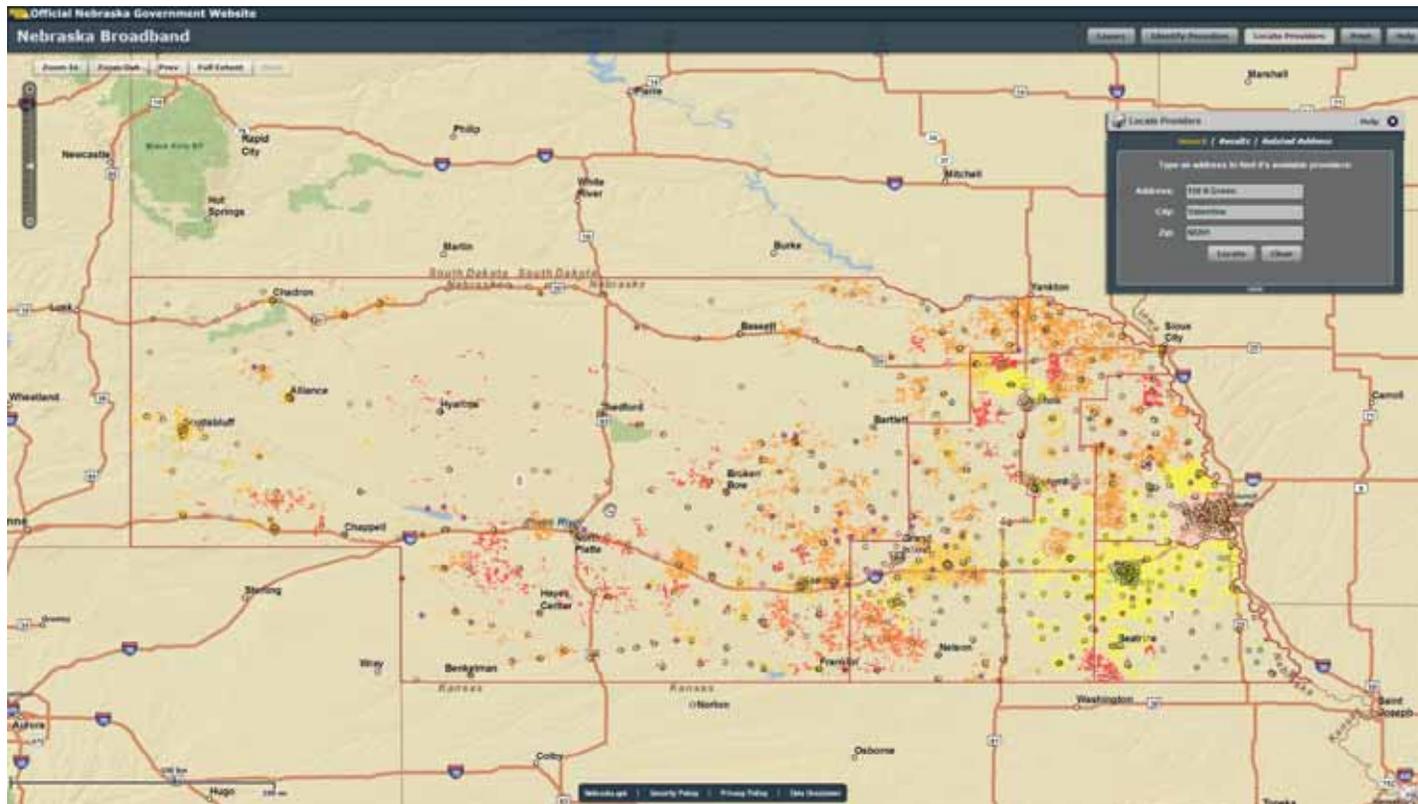
Nebraska Broadband Map – Locate Providers



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Nebraska Broadband Map – Locate Providers





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Nebraska Broadband Map – Locate Providers Results

The screenshot displays the Nebraska Broadband Map interface. At the top, it says "Official Nebraska Government Website" and "Nebraska Broadband". There are navigation tabs for "Layers", "Identify Providers", "Locate Providers", "Print", and "Help". Below the tabs are zoom controls: "Zoom In", "Zoom Out", "Prev", "Full Extent", and "Next". The map shows a grid of streets in Valentim, NE, with a red circle highlighting a specific location. A pop-up window titled "Locate Providers" is open, showing search results for "VALENTIM, NE". The results list several providers: "Internet Nebraska", "Three Rivers Digital LLC", "Qwest", and "Verizon Wireless". A scale bar at the bottom left indicates 1000 feet. The footer contains "nebraska.gov", "Security Policy", "Privacy Policy", and "Data Disclaimer".



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Nebraska Broadband Map – Locate Providers Results

The screenshot displays the Nebraska Broadband Map interface. At the top, it says "Official Nebraska Government Website" and "Nebraska Broadband". Navigation buttons include "Layers", "Identify Providers", "Locate Providers", "Print", and "Help". Map controls include "Zoom In", "Zoom Out", "Pan", and "Full Extent". A search bar at the top right contains "Valentim, NE". A "Locate Providers" window is open, showing search results for Valentim, NE. The results include "Three River Digital LLC" with details on technology, advertised download and upload speeds, and contact information. A map popup for Valentim, NE (Nebraska) is also visible, showing a scale of 100 feet. The map itself shows a grid of streets and a yellow highlighted area representing the search results. A scale bar at the bottom left indicates 1000 feet. Footer links include "Nebraska.gov", "Security Policy", "Privacy Policy", and "Data Disclaimer".



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Nebraska Broadband Map – Identify Provider Results

The screenshot displays the Nebraska Broadband Map interface. At the top, it says "Official Nebraska Government Website" and "Nebraska Broadband". There are navigation buttons for "Layers", "Identify Providers", "Locate Providers", "Print", and "Help". The map shows a topographic view of a region with a yellow highlighted area. A "Miller Field" label is visible at the bottom center. A "Identify Providers" pop-up window is open on the right, listing available providers:

- Internet Nebraska
- Internet Nebraska
- Central
- Three Rivers Digital LLC
- Horizon Wireless
- Internet Nebraska

At the bottom of the map, there is a scale bar (0.5 km) and a footer with "Nebraska.gov", "Security Policy", "Privacy Policy", and "Data Disclaimer".



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National Broadband Map

- www.broadbandmap.gov
- Following series of slides provides an overview of the National Broadband Map capabilities and tools



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National Broadband Map – Opening

National Broadband Map - Windows Internet Explorer
http://www.broadbandmap.gov

National Broadband Map

NBM
National Broadband Map
How connected is my community?

Please enter any address **FIND Broadband**

Explore the Map or **Analyze the Data**

[Analyze](#) • [Map](#) • [Developer](#) • [About](#) • [Native Nations](#)
[Rank](#) • [Summarize](#) • [Engage](#) | [Share](#) • [Blog](#) • [Twitter](#) • [Data Download](#)

The **National Broadband Map** is a tool to search, analyze and map broadband availability across the United States.
Created and maintained by the **NTIA**, in collaboration with the **FCC**, and in partnership with 50 states, five territories and the District of Columbia.

NTIA • **FCC** • [Website Policies and Notices](#) • [Privacy Policy](#) • [Recovery.gov](#) • [FOIA](#)



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National Broadband Map

Search Results: Broadband Providers for this Area - 120 n green, valentine, ne 68201 - National - Windows Internet Explorer

http://www.broadbandmap.gov/internet-service-providers/120-n-green-valentine-ne-68201?lat=42.872309&long=-100.585730000007

Search Results: Broadband Providers for this Area...

National Broadband Map
How connected is my community?

Homepage - Analyze - Map - Developer - About - Native Nations

120 n green, valentine, ne 68201 **FIND**

Search Results: Broadband Providers for this Area

The list below contains broadband providers that have reported offering service to all or part of the area that is selected on the map for this search. Providers are listed in order of decreasing subscriber count.

National Broadband Map Search Results Alert

The area you have selected does not contain a complete broadband record set. The system will only display available data (if any).

Expand All

Data as of: 6/30/10

Print this page - About area - Compare Areas

Share

Map

Rank

Summarize

Broadband Classroom

Is your broadband provider listed? If not, please enter the provider below

SEND



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National Broadband Map

The screenshot shows a web browser window displaying the National Broadband Map website. The search results for the area '120 n green, valentine, ne 68201' are shown. The results list Verizon Communications Inc. with an advertised speed of 3 Mbps. The page also includes a map of the area, a 'Share' button, and a 'Rank' button. The website header includes the NBM logo and navigation links: Homepage, Analyze, Map, Developer, About, and Native Nations. The search bar contains the text '120 n green, valentine, ne 68201' and a 'FIND' button. Below the search bar, there is a section titled 'Search Results: Broadband Providers for this Area' with a sub-header 'Advertised Speeds Above 3 Mbps'. The results list Verizon Communications Inc. with a speed of 3 Mbps. There are also buttons for 'Show All', 'Show Wired', 'Show Wireless', and 'Expand All'. A 'Share' button is visible, along with a 'Map' button and a 'Rank' button. At the bottom, there is a 'Summarize' button and a 'Broadband Classroom' link.



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National Broadband Map

The screenshot shows the National Broadband Map (NBM) website interface. At the top, there is a search bar with the text "120 n green, valentine, ne 68201" and a "FIND" button. Below the search bar, the page title is "Search Results: Broadband Providers for this Area". A paragraph explains that the list contains providers offering service to the shaded area on the map to the right, listed by maximum speed. A map on the right shows the search area with a red shaded region. Below the map, there are several sections: "Advertised Speeds Above 3 Mbps" with a bar chart showing Verizon Communications Inc. at 3.6 Mbps; "Advertised Speeds Above 768 Kbps and Below 3 Mbps"; "Most Common Speed: 10 Mbps"; and "Satellite is also available in most areas. Click here to read more". At the bottom, there is a form to add a provider and a "SEND" button. On the right side of the page, there are links for "Print this page", "About area", "Compare Areas", "Share", "Map", "Rank", "Summarize", and "Broadband Classroom".



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National Broadband Map

The screenshot shows the National Broadband Map website in a browser window. The browser's address bar displays the URL <http://www.broadbandmap.gov/technology>. The page header includes the NBM logo and the tagline "How connected is my community?". Below the header, there is a section titled "Type of Technology Available" with a date of "Data as of 4/09/10". This section contains several filter buttons: "ASYMMETRIC XDSL", "SYMMETRIC XDSL", "OTHER COPPER WIRELINE", "CABLE MODEM DOCSIS 3.0", "CABLE MODEM-OTHER", "FIBER TO THE END USER", "TERRESTRIAL FIXED WIRELESS UNLICENSED", "TERRESTRIAL FIXED WIRELESS LICENSED", and "TERRESTRIAL MOBILE WIRELESS". The main content area features a map of the United States with blue dots indicating broadband availability. A vertical toolbar on the left side of the map includes a crosshair, a plus sign, a minus sign, and a slider. At the bottom of the page, there is a footer with the text "The National Broadband Map is a tool to search, analyze and map broadband availability across the United States." and links for "Show Footer" and "Show Gallery".



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National Broadband Map

National Broadband Map
How connected is my community?

Type of Technology Available (data as of 4/30/11)

ASYMMETRIC XDSL SYMMETRIC XDSL OTHER COPPER WIRELINE CABLE MODEM-DOCSIS 3.0 CABLE MODEM-OTHER FIBER TO THE END USER
TERRESTRIAL FIXED WIRELESS-UNLICENSED TERRESTRIAL FIXED WIRELESS-LICENSED TERRESTRIAL MOBILE WIRELESS

Type of Technology Available
Description: This map displays broadband technologies offered to end users (e.g. DSL, cable, wireless, fiber, etc.).

The National Broadband Map is a tool to search, analyze and map broadband availability across the United States.

Show Footer Hide Gallery



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National Broadband Map

The screenshot shows the National Broadband Map website in a Windows Internet Explorer browser window. The page has a blue header with the NBM logo and the tagline "Now connected is my community?". The main content area is divided into two columns. The left column contains sections for "Analyze", "Rank", "Summarize", and "Popular Reports", each with a brief description of the tool's function. The right column contains sections for "Share", "Map", "Rank", "Summarize", "Broadband Classroom", "Engage", "Blog", and "Updates", each with a link and a short description. At the bottom of the page, it says "results: 0.11 seconds".

Analyze
Use the tools below to rank an area by a specific broadband attribute, generate summaries of broadband availability for a given area and download reports containing popular statistics.

Rank
Use this tool to compare broadband availability in different areas. Generate a national list of states, counties, Metropolitan Statistical Areas (MSA), Congressional Districts, census designated places or Universal Service Fund (USF) study areas by broadband speed, technology, number of broadband providers or demographic information. The tool also generates ranked lists within a state, including by county, census designated place, Congressional District, state legislative district, MSA and USF study area.

Summarize
Use this tool to generate an overview of broadband availability for any state, county, state legislative district, Metropolitan Statistical Area (MSA), Universal Service Fund (USF) study area, or Native Nations.

Popular Reports
View and download popular reports:

- Broadband Availability in Urban vs. Rural Areas
- Number of Providers by Speed Tier
- Access to Broadband Technology by Speed

Share
Share this page with my community

Map
Map my community

Rank
Rank my community

Summarize
View statistics about my community

Broadband Classroom
Learn more about broadband

Engage
Build a better map for my community

Blog
What makes the National Broadband Map #gov207
posted by Andrew Mai Raj on March 8, 2011

Updates
Sign up and receive updates about the National Broadband Map

results: 0.11 seconds