

**OFFICIAL APRIL 2011 UPDATE SUBMISSION TO
THE NATIONAL TELECOMMUNICATIONS AND INFORMATION
ADMINISTRATION UNDER THE
STATE BROADBAND DATA AND DEVELOPMENT GRANT PROGRAM
FOR THE STATE OF IOWA**



April 1, 2011

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IOWA COVER LETTER

April 1, 2011

Ms. Anne W. Neville
SBDD Grant Program Director
National Telecommunications and Information Administration
U.S. Department of Commerce
1401 Constitution Avenue, NW Room 4716
Washington, DC 20230

Dear Ms. Neville:

It is with highest regard that the collective stakeholders of Connect Iowa offer congratulations to the U.S. Department of Commerce's National Telecommunications & Information Administration (NTIA) on the recent release of the National Broadband Map. This extraordinary milestone demonstrates the intense and joint effort of the NTIA, FCC, state governments, industry, and non-profits like Connected Nation and will serve as a key tool for the American public and policymakers resulting in smarter investments and targeted state and local broadband policies and programs. We are proud of the role that Connect Iowa has played in creating such a powerful tool that will surely benefit not just Iowans, but consumers and businesses nationwide.

Therefore, Connected Nation as the State Broadband Designated Entity, in partnership with the Iowa Utilities Board, is pleased to present this submittal of the state of Iowa's State Broadband Data and Development (SBDD) Grant Program, known as Connect Iowa.

These artifacts should be found to be compliant with the April 1, 2011, deadline for the semi-annual data update and in accordance with the terms of the July 1, 2009, Notice of Funds Availability (NOFA) and all subsequent clarifications pertaining to delivery of State-Level Mapping of Broadband Service Availability. This packet includes:

Inventory of Deliverables, Connect Iowa: April 1, 2011

<u>NOFA Requirement</u>	<u>Data Transfer Model</u>	<u>Data Description</u>
Appendix A: 1(a)(i)	BB_Service_CensusBlock	Broadband Service Availability of Facilities-Based Providers in Census Blocks of No Greater Than Two Square Miles in Area
Appendix A: 1(a)(ii)	BB_Service_RoadSegment	Broadband Service Availability of Facilities-Based Providers by Road Segment in Census Blocks Larger in Area Than Two Square Miles

Appendix A: 1(b)	BB_Service_Wireless	Broadband Service Availability of Wireless Services Not Provided to a Specific Address
Appendix A: 3(b)	BB_ConnectionPoint_MiddleMile	Broadband Service Infrastructure Middle-Mile and Backbone Interconnection Points
Appendix A: 4	BB_Service_CAInstitutions	Community Anchor Institutions-Listing
Appendix A: 4	n/a	Community Anchor Institutions-Narratives
VII.A.1(a)	n/a	Accuracy and Verification Report
n/a	DataPackage.xlsx	Worksheets of Contact Information, Data Dictionary, and Provider Summary Table
n/a	n/a	Broadband Provider Roster and Participation Status

In addition, this data update submission should be found to be compliant with the additional program requirements instituted by the National Telecommunications and Information Administration since the time of the October 2010 SBDD data submission for the Connect Iowa program. Specifically, these new requirements are:

SBDD Data Transfer Model

The submission of the broadband dataset for April 1, 2011, is contained within the SBDD Data Transfer Model as released on the Grantee Workspace on January 14, 2011. All efforts have been made to comply with formatting, domain, and metadata requirements to include as much information on each provider as possible.

Additional Submission Guidance

This submission also includes the updated DataPackage spreadsheet with enhanced provider listings as well as satisfactory outputs from the SBDD_Check toolbox to ensure fewer unexpected values with the submitted broadband datasets prior to federal processing for the National Broadband Map update.

It is therefore with great pleasure that the Connect Iowa program submits this April 2011 semi-annual data update under the State Broadband Data and Development Grant Program. We will continue to implement the joint purposes of the Recovery Act and the Broadband Data Improvement Act (BDIA) by gathering comprehensive and accurate state-level broadband mapping data, developing state-level broadband maps, aiding in the development and maintenance of the National Broadband Map, and undertaking statewide initiatives for broadband planning.

Broadband Service Availability — Provider Outreach and Verification

This data update submission under the SBDD includes the participation of approximately 94.66% of the Iowa provider community, or 195 of 206 total providers. Of the 195 participating providers, 50

supplied an update to their network or coverage area(s), while 142 have reported no change. The remaining 3 represent providers who previously supplied data but were non-responsive in the April 2011 update effort; therefore their previous dataset is being put forward as part of this compilation. A complete roster by provider depicting participation status and contact record is contained herein. Of the 11 providers that are not represented in the attached datasets, 6 have either refused to participate in the voluntary program or have remained unresponsive to the numerous attempts at contact by Connect Iowa. The remaining 5 providers are currently in some form of progress toward data submission but were not able to either submit or verify coverage areas at the time of this submission.

As the aforementioned roster and attached methodology documentation will attest, it is the collective opinion of the Connect Iowa principals that all commercially reasonable efforts were made to account for 100% of the known Iowa broadband provider community, pursuant to this semi-annual data update submission.

Connect Iowa has also continued to perform broadband verification activities through several means. In addition to confirmation of service area(s) by each provider, Connect Iowa conducts field validation efforts. To date, 59 (28.64%) providers have been validated through field verification activities. Additional details on verification activities are contained within the Field Validation Narrative.

At the program's inception, Connect Iowa launched a website to create awareness about the initiative. Connectiowa.org continues to serve a prominent role in the outreach and data collection effort. This program asset provides a way for the general public to participate in the process by offering interactive tools for users to test their connection speed, submit broadband inquiries, or contact a program representative.

As an indicator of stakeholder penetration, the Connect Iowa website encountered 3,366 unique visits during this reporting period (14,777 total to date for the life of the grant awarded on January 1, 2010). Additionally, this pronounced Web activity netted 59 broadband inquiries over this same reporting period (174 grant inception to date). The website also provides the BroadbandStat application, which allows the consumer to confirm or dispute the coverage represented on the broadband inventory map. These consumer-initiated actions are facilitated through the Connect Iowa website and the Connect Iowa Interactive Mapping Tool (BroadbandStat) that offer the citizens the vehicles to provide information regarding availability in their respective service area, either in affirmation or contest of the reported data represented in the Connect Iowa mapping artifacts. Since the initial data collection and release of corresponding maps, feedback in the form of broadband inquiries has allowed Connected Nation to identify additional areas that are in need of field validation, which is scheduled as soon as possible.

Community Anchor Institutions

Connect Iowa has established an ongoing mechanism for gathering data on the location and broadband connectivity of Community Anchor Institutions (CAI), in accordance with the data requirements of the SBDD NOFA Technical Appendix.

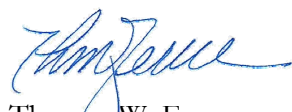
In conjunction with the Iowa Utilities Board, outreach was conducted during this data update reporting period by Connect Iowa to continue identification of existing, centralized sources for CAI connectivity data. Outreach was coordinated to distribute the CAI survey to institutions throughout the state through multiple methods including a customized online survey available on the Connect Iowa website. Connect Iowa continues to work in close coordination with statewide associations such as the Iowa League of Cities, Iowa Association of Counties, and the State Library of Iowa to promote the importance of broadband connectivity at anchor institutions and participation in this data collection process.

While we continue to document institutions and the related addresses, the connectivity data collected in most categories remains incomplete at this time. Connect Iowa will be implementing a number of new processes to increase participation including launching a CAI newsletter to connect communities across the state, increasing industry-specific planning to target new community contacts, and revising the CAI portion of our website to increase visibility and content. From our work in Connect Iowa, as well as other states, we recognize the great value of this data to future collaboration efforts within the state and its value to the recently released National Broadband Map. We plan to continue to bring best practices to the Connect Iowa efforts, along with an investment of both human and technical resources required to reach our goal of increasing the data that is secured and reported as part of this process.

In acquiring both broadband availability and CAI data within the state of Iowa, Connected Nation has previously engaged the one federally recognized tribal land in the area covered by the Connect Iowa SBDD grant and reported the outreach to the Sac & Fox Tribe of the Mississippi as part of past submissions. Throughout the next reporting period Connect Iowa plans to engage directly with this tribal community and will also conduct affirmative outreach within the area. Connect Iowa understands the connectivity challenges facing this tribe, and we have identified a need to include its data as part of our upcoming submissions.

The Connect Iowa program exists to improve data on the deployment and adoption of broadband services and to assist in the extension of broadband technology across all regions of the great state of Iowa, as well as the United States through contribution to the National Broadband Map. We look forward to the continuing work ahead.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'Tom Ferree'.

Thomas W. Ferree
Chief Operating Officer
Connected Nation, Inc.

DATA ACQUISITION: IOWA COMMUNITY ANCHOR INSTITUTIONS

In this third reporting period of the SBDD, Connect Iowa, working in close coordination with the Iowa Utilities Board, has established an ongoing mechanism for gathering data on the location and broadband connectivity of Community Anchor Institutions (CAI), in accordance with the data requirements of the SBDD NOFA Technical Appendix. During this reporting period Connect Iowa has continued to focus efforts on conducting outreach and raising awareness of this important project.

Connect Iowa has continued to identify and process CAI data obtained through an ongoing statewide outreach campaign. Physical address information continues to be augmented through manual sourcing and geocoded by Connect Iowa through ESRI ArcGIS software.

Connect Iowa continues to utilize a customized online survey hosted through SurveyMonkey, with a landing page on the Connect Iowa website that was developed during the first reporting period. This survey, in combination with a customized data gathering spreadsheet, was distributed to a targeted list of CAI throughout the state. Connect Iowa will continue to use these data gathering tools for future targeted outreach efforts throughout the coming months leading up to the next reporting period. These materials are customized to fit the CAI categories as defined in the SBDD NOFA.

The survey can be accessed at this link using the following password:

http://connectiowa.org/mapping/Community_Anchor_Institution_Data_Collection.php

Password: CAI_IA_3654

Connect Iowa and the Iowa Utilities Board have worked closely during this reporting period to conduct research as part of an ongoing process to identify existing, centralized sources for CAI connectivity data. Locating centralized connectivity data in the state remains a challenge but outreach continues to sources who may have possession of this data and Connect Iowa is seeing progress toward securing and reporting this data during the coming months.

In tandem with these efforts to identify existing data, Connect Iowa continues to identify key CAI contacts among all CAI categories in an effort to distribute and promote the online survey and raise awareness of the importance of CAI broadband connectivity. Survey response during this reporting period has been slow but increased coordination will be occurring in the coming months with associations throughout the state including the State Library of Iowa, Iowa Hospital Association, Iowa Department of Education, Iowa League of Cities, and the Iowa State Association of Counties. Connect Iowa is confident that survey results will increase over the coming months as updates surrounding the project are provided to these associations and their members.

Connect Iowa has an ongoing mission to educate CAI throughout the state on the importance of participating in the project. Participation by these institutions will raise awareness about the importance of broadband connectivity and the need to report the requested data for inclusion on the National Broadband Map. To assist with our data collection efforts, Connect Iowa is developing a

CAI newsletter to be distributed quarterly beginning in April 2011. The newsletter will highlight a CAI in Iowa, encourage institutions to share their data, and highlight the National Broadband Map.

The greatest challenge with collecting this data continues to be the difficulty in securing CAI broadband connectivity data. Connect Iowa will continue its ongoing work with the Iowa Utilities Board and key organization contacts in an effort to raise awareness of this project among CAI. An update on our current data will be provided to the Iowa Broadband Deployment Governance Board, and participation by its members to assist with promoting our survey will be encouraged. Leading up to the next reporting period, Connect Iowa will be specifically focusing on contacts in the education and healthcare sectors in an effort to increase data in these categories.

A CAI summary of all processed and submitted data is provided below:

CAI Type	Total	Physical Address	Lat/Long	Technology of Transmission	Download Speed	Upload Speed
K-12 Schools	1,865	1,865	1,865	122	122	124
Libraries	588	588	588	316	405	233
Healthcare	149	149	149	41	40	39
Public Safety	1,222	1,222	1,221	78	70	72
Higher Ed Institutions	77	77	77	30	30	30
Other Government	700	700	700	315	260	294
Other Non-Government	3	3	3	3	3	3
Total	4,604	4,604	4,603	905	930	795

SBDD DATA SUBMISSION METHODOLOGY

The submission of the broadband dataset for April 1, 2011, is contained within the SBDD Data Transfer Model and additional components as released on the Grantee Workspace on January 14, 2011. Connected Nation has reviewed all literature that relates to the release and use of this data transfer model and recognizes that it does not replace or dictate how data is stored, processed, or displayed for the state or territory, as it is meant primarily as a means to transfer the broadband data from all states and territories and populate the National Broadband Map in a seamless fashion. Guidance from the Technical Mapping Guide, as released on the Grantee Workspace on March 24, 2011, was also followed to ensure the completeness and validity of the submission through completion steps and checklists, completing the DataPackage spreadsheet, uploading broadband datasets into the Data Transfer Model, and checking the dataset using the SBDD_CheckSubmission receipt process.

In addition to the narratives and methodologies contained herein, as well as the DataPackage.xls containing contact information, the data dictionary, and a provider summary table, the following feature classes are submitted within the SBDD Data Transfer Model for the state of Iowa.

Inventory of Deliverables, Connect Iowa: April 1, 2011

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Appendix A: 1(b)	BB_Service_Wireless	Broadband Service Availability of Wireless Services Not Provided to a Specific Address.
Appendix A: 3(b)	BB_ConnectionPoint_MiddleMile	Broadband Service Infrastructure Middle-Mile and Backbone Interconnection Points.
Appendix A: 4	BB_Service_CAInstitutions	Community Anchor Institutions-Listing.

The provider data collected by Connected Nation on behalf of the state of Iowa have been formatted per the given specifications and uploaded into the appropriate feature classes of the SBDD Data Transfer Model. Wireline availability is contained within census blocks and road segments, wireless availability is contained as polygons of coverage areas, and middle-mile connections and community anchor institutions are contained as point data. All speed data is contained at the census block, road segment, or wireless polygon level of availability. All efforts have been made to comply with formatting, domain, and metadata requirements to include as much information as possible.

Connected Nation has continued outreach to satellite providers on their availability, technology, and speed information, but it is not included in this submission dataset. Additional information is necessary to be able to show where service satisfactorily exists in the state, rather than submitting the entire boundary of the state as the serviceable area. Analysis information distributed and discussed with the satellite providers, as well as any additional guidance from the Program Office on the desired analysis for satellite-serviceable areas, will be implemented for the October 2011 data submission.

IOWA FIELD VALIDATION NARRATIVE

Connected Nation focused a portion of its time on specific validation processes such as:

- conducting random spectrum analysis studies throughout the state using an Avcom PSA-37-XP spectrum analyzer;

- conducting mobile speed tests throughout the state using an iPhone, Android (or other smart phone) as well as provider-specific aircards (Sprint 3G/4G, Clearwire et al);
- identifying pre-selected, provider-submitted wireless transmit tower sites and cross-referencing data about that tower against the Federal Communications Commission (FCC) databases such as Antenna Structure Registration and/or the Universal Licensing System;
- cross-referencing Federal Registration Number data against available FCC Form 477 data as well as the FCC **CO**mmission **RE**gistration **S**ystem (CORES);
- validating provider submitted data (for example: latitude/longitude) using a handheld Garmin eTrex Summit GPS unit or GPS enabled software such as Microsoft Streets and Trips;
- locating physical wire-line attributes (such as remote terminals, CATV plant, etc.) and comparing them against provider submitted data; and
- conducting on-net and off-net speed tests using the FCC portal at <http://www.broadband.gov/qualitytest/about/> or using the Ookla Net Metrics enabled speed test utility located on each of Connected Nation's state specific websites.

Additionally, Connected Nation cross-referenced numerous public documents in order to ensure that all known broadband providers were located and contacted. This included searching membership logs from the trade associations (WISPA, WCAI, PCIA, etc.), the Cable Television Fact Book, Public Utility Commission records, Public Service Commission records, Chamber of Commerce, etc.

To date Connected Nation's staff conducted on-site validation tests in Iowa on the following providers: AT&T Inc., Brooklyn Mutual Telecommunications Cooperative, Cable ONE Inc., Cedar Falls Utilities, Chat Mobility, Circle Computer Resources, Citizens Mutual Telephone Cooperative, Cloudburst_9, Community Cable Television Agency of O'Brien County, Cramer, IT, Danville Mutual Telephone Company, Dynamic Broadband, East Buchanan Telephone Cooperative, Evertek Enterprises, Farmers & Merchants Mutual Telephone Company, Farmers Cooperative Telephone Company-Dysart, Farmers Mutual Telephone Company-Jesup, Farmers Telephone Company-Essex, FiberComm LC, Frontier Communications Corporation, Grand River Mutual Telephone Corporation, Grundy Center Municipal Utilities, Heartland Net, Hot Spots, I-35 Telephone Company, Internet Consulting Services LLC, Iowa Telecom, Kalona Cooperative Telephone Company, KDSC Inc., LaPorte City Telephone Company, Lenox Municipal Utilities, Long Lines, Mahaska Communications Group, Mediacom Iowa LLC, Mediapolis Telephone Company, MidlandsNet LLC, Minburn Communications, Mutual Telephone Company, Mutual Telephone Company of Morning Sun Iowa, NetConx, Northern Iowa Telephone Company, Panora Communications Cooperative, Partner Communications Cooperative, Prairie iNet, Premier Communications, Qwest Corporations, Sharon Telephone Company, SpeedNet LLC, Sprint, T-Mobile USA, Traer Municipal Utilities, Van Buren Telephone Company Inc., Verizon Communications Inc., Villisca Farmers Telephone Company, Walnut Telephone Company, Wellman Cooperative Telephone Association, West Liberty Telephone Company, Western Iowa Telephone Association, and Woolstock Mutual Telephone.

During this reporting period, Connected Nation conducted 4 additional on-site validation tests with Citizens Mutual Telephone, Farmers Mutual Cooperative Telephone Company, Northern Iowa Telephone Company, and MidlandsNet LLC.

From program initiation through this reporting period, Connected Nation has completed in-the-field validation testing against 59 companies (out of a universe of 206 viable providers) totaling 28.64% within the state of Iowa.

ACCURACY AND VERIFICATION: METHODOLOGY - PROVIDER VALIDATION

Broadband providers maintain their service area data in many different formats, all in varying levels of complexity and granularity. In order to ensure that the data required by the NTIA is standardized across all providers and that it is as accurate as possible, Connected Nation translates and formats the data that providers are able to supply into a GIS shapefile and produces maps for the provider to review. The resulting map(s) and review process allow for providers to see their service area in a geographic format – for some providers, this is the first time they have seen maps of their broadband service area. Having the mapped service area allows providers to quickly identify any issues that appear in the data representation, whether the issue is in the data translation into a GIS format or from the original data collection and submission. Often data is provided from various sources and through the review and revision process, local engineers who operate the networks and work in the field are able to ensure that the tabular data that has been submitted is accurate and represents the real-world network extent. Any issues in how the service area is represented on the map(s) are remedied by Connected Nation, whether they are additions, removal of service, or any other revisions. Revised maps of service area representations are sent to the provider for review and approval; Connected Nation will revise data and return maps as many times as necessary until the provider is in agreement that the map represents their service area as accurately as possible. Once the review process has been completed and final approval of the data is provided, the data is deemed ready for NTIA submission.

Once the data collection has been aggregated a statewide level, static maps of statewide and county-level availability are produced and made publicly available. In addition, consumers can visit the interactive online tool, BroadbandStat, to create customized views of broadband service areas and analyze corresponding demographic information. Leveraging broadband service data on various platforms allows for public users, providers, and other stakeholders to review, scrutinize, and provide feedback on the represented data. This feedback becomes a validation method in itself as consumers submit inquiries to Connected Nation either affirming where service is not available or identifying areas where broadband service is shown on the map, but in actuality is not available. This allows for a follow-up to providers regarding revisions to the data as it is represented; it also allows for Connected Nation to identify locations where on-site visits may be necessary to complete field validation of available services. Public feedback on all forms of mapping products serves as a localized validation method for provider-supplied information and allows Connected Nation to resolve inaccuracies as they are identified to ensure that only the highest quality information is provided to stakeholders.

Estimates derived from provider-validated data indicate that approximately 3.17% of Iowa households do not have terrestrial fixed broadband service available, and approximately 0.04%¹ of Iowa households have neither mobile nor fixed broadband service available.²

Within rural areas of the state, results derived from provider-validated data indicate that approximately 5.58% of rural Iowa households do not have terrestrial fixed broadband service available, and approximately 0.06%³ of rural Iowa households have neither mobile nor fixed broadband service available.⁴

WIRELESS METHODOLOGY

Broadband Service Availability in Provider's Service Area Wireless Services Not Provided to a Specific Address

Data solicited from a fixed wireless provider to create propagation models include, but are not limited to:

1. The name of the structure
2. Whether the transmitting device is operational or proposed
3. The maximum advertised downstream speed, the maximum advertised upstream speed
4. The typical downstream speed, the typical upstream speed (peak periods for both)
5. The frequency range of spectrum being used (as prescribed by NTIA)
6. The primary population center(s) being served (for geopolitical boundary reference)
7. The physical address of the transmit site (in the event latitude/longitude is unavailable from the provider this allows a quick reference point for geocoding)
8. Latitude in either Degrees, Minutes and Seconds and/or in Decimal Degrees (typically received as NAD 27 or NAD 83)
9. Longitude in either Degrees, Minutes and Seconds and/or in Decimal Degrees (typically received as NAD 27 or NAD 83)
10. Antenna pattern (e.g. omni-directional, 180°, 120°, 90°, etc.)
11. Azimuth of antenna (e.g. 360° with magnetic declination if known)
12. Approximate transmit radius (in feet, miles, or kilometers)

¹ In accordance with NTIA's definition of available broadband service as specified in the SBDD NOFA, this estimate includes both terrestrial fixed *and* mobile broadband service, if the service offers download speeds of at least 768 Kbps and upload speeds greater than 200 Kbps.

² Due to the nature of the SBDD data collection methodology as defined by the NTIA and based on both census block geographic units and street segment data, the estimates of broadband availability derived from provider-validated data may include an overstatement of the actual number of households with broadband availability. Under the census block-based data collection method, a provider will typically report broadband availability for an entire census block whether its network is present across the whole or only a subset of that census block. This potential overestimation at the census block level can be amplified as the data is aggregated across the entire state.

³ See footnote 1.

⁴ See footnote 2.

13. Polarity of transmit antenna (Vertical or Horizontal)
14. Transmit antenna gain (in dBi)
15. Line loss (applicable only to providers using coax, heliax, waveguide or other forms of cabling – excludes power-over-Ethernet devices)
16. Mechanical and/or Electrical beam tilt (if applicable)
17. Equipment Manufacturer (allows easy cross-reference against manufacturer's specification sheet)
18. Power output of the transmitting device (if unknown, FCC standards or manufacturer specifications are applied)
19. AMSL at base of tower site
20. Antenna centerline AGL (height of antenna above ground level measured at the centerline of the actual antenna)
21. Foliage factors (Evergreens/Deciduous and percent of ground cover)
22. Ground Clutter (primarily used in rural areas to account for foliage and in metropolitan areas to account for types and heights of buildings if known)
23. Average gain of receive antenna
24. Receive antenna is estimated at height above average terrain (HAAT) of 6.2 meters/20 feet
25. Federal Registration Numbers (if applicable) which may allow opportunities to cross-reference and/or obtain additional data from the Federal Communications Commission Universal Licensing System and the **CO**mmission **RE**gistration **S**ystem

Propagation modeling is an empirical mathematical formulation for the characterization of radio wave propagation as a function of frequency, distance, and other conditions. Propagation software(s) typically use the Irregular Terrain Model (also known as Longley-Rice) of radio propagation for frequencies between 20 MHz and 20 GHz. This model is based on electromagnetic theory and statistical analyses of the combination of terrain features and radio measurements, then predicting the median attenuation of a radio signal as a function of distance and the variability of the signal in time and in space. For metropolitan areas, the software can typically be adjusted to use the Okumura-Hata model which accounts for predicting the behavior of cellular transmissions in areas where buildings are the primary obstructions. The resulting product from either model depicts a graphical illustration of the theoretical propagation characteristics of a selected frequency range based on defined variables (receiver sensitivity of the home/mobile device, foliage factor, and digital elevation terrain input).

BROADBAND INQUIRIES METHODOLOGY

Connected Nation collects consumer feedback in the form of broadband inquiries. These inquiries represent any type of communication received from the public regarding broadband service. Once broadband inquiries are received across the state, this information is overlaid with the broadband availability information which was collected through the SBDD program. This allows for a real-world comparison of the broadband landscape to the information received from broadband inquiries. Broadband inquiries are able to provide three types of information: 1) Residents who do

not have broadband but want it. 2) Residents who have broadband but want a different provider. 3) Residents who do not have broadband, but the broadband inventory maps indicate that they do.

Through the collection of broadband inquiries, a visual demand for broadband is presented. This visualization allows Connected Nation the ability to validate broadband availability maps for accuracy. If residents within a region state that they are without broadband, but the broadband inventory maps show otherwise, this allows Connected Nation to approach the providers within that area in an effort to trim down their coverage to more accurately represent real-world availability on the ground. On the other hand, if there is a region in the territory in which broadband is not available, the broadband inquiries allow providers close to that region to see where they can successfully expand their broadband networks, leading to a high return on investment. In short, the higher number of inquiries leads to a higher level of certainty in regard to the broadband availability maps. Since the initial data collection and release of corresponding maps, feedback in the form of broadband inquiries has allowed Connected Nation to identify additional areas that are in need of field validation, which are scheduled as soon as possible. Additional information on field validation can be found in the Field Validation Narrative.

The broadband inquiry process has been implemented in each of the Connected Nation state programs with successful results. Altogether Connected Nation has received over 16,000 broadband inquiries since 2007, allowing the state programs to evaluate each inquiry for broadband demand and data verification. These inquiries are continuously examined against current broadband availability, updated every six months, to determine if previously unserved households have been expanded to and can now receive broadband at their residence. This database of broadband inquiries has also allowed the Connected Nation state programs to aggregate demand in concentrated areas to show providers the exact locations where the population has made it clear that they would purchase broadband if it was made available to them. Providers in the states have responded to this process and have expanded to areas knowing that their investment will be worthwhile. Data verification methods have also proven successful, as the state programs have been able to show those inquiries that indicate the broadband service areas are misrepresented on the map to providers, who then verify where service cannot reach in regard to that residence(s). The broadband coverage in these states has been altered to create a more accurate map based on the inquiries submitted by the public.

During this reporting period, the Connect Iowa project has received a total of 59 inquiries (174 grant inception to date). As more inquiries are submitted to Connect Iowa, a more thorough validation of the broadband landscape can be performed, while also allowing providers to see which areas have a high demand for broadband adoption.

BROADBANDSTAT METHODOLOGY

BroadbandStat is an online, interactive mapping tool for viewing, analyzing, and validating broadband data. Developed through a partnership with ESRI, the market leader in geographic information system (GIS) software, BroadbandStat is a multi-functional, user-friendly way for local leaders, policymakers, consumers, and technology providers to devise a plan for the expansion and adoption of broadband.

First and foremost, BroadbandStat allows consumers to locate their residence and identify providers that offer broadband Internet service to that location. The interactive platform allows for users to build and evaluate broadband expansion scenarios using a wealth of data, including education and population demographics, broadband availability, and research about the barriers to adoption.

New functionality in BroadbandStat allows the consumers to provide feedback on the broadband data displayed on the interactive map. Through the collection of this feedback, a visual demand for broadband is presented. This visualization allows the Connected Nation state programs the ability to validate the broadband availability for accuracy. If residents within a region state they are without broadband, but the interactive map shows otherwise, this allows Connected Nation to approach the providers within that area in an effort to trim down their coverage to more accurately represent real-world availability on the ground.

The Connect Iowa project launched BroadbandStat on June 18, 2010, and has received a total of 5,200 visits to date, of which 1,002 occurred this reporting period.

SPEED TEST METHODOLOGY

The 784 speed tests that are represented in the Connect Iowa Speed Test Report during this reporting period (3,187 grant inception to date) are the result of a partnership between Connected Nation and Ookla Net Metrics. Utilizing this relationship increases the level of confidence in the data being collected and provides for a far greater sample size than could be collected by a single testing site.

Ookla owns and operates Speedtest.net, as well as develops and deploys speed tests, such as the Connect Iowa speed test website, for partners around the world. This network of sites that is developed and run on its testing technology provides Ookla with a vast dataset that, due to the variability of geographic information collected across the varying speed test sites, is geocoded utilizing Geo-IP technology. This technology allows for tests to be geocoded to points of aggregation, typically larger nodes across provider networks. While there are hundreds of thousands of tests that have been conducted, the level of aggregation is only sufficient for county-level detail due to the test results being located at these larger nodes and not at an absolute location for each speed test.

In an effort to validate broadband data from the Connect Iowa project, speed test information is collected throughout the state. Speed tests provide speed information on the path taken through all networks (a provider's network as well as additional networks) a local machine must connect to in order to reach the host test. The benefit of this collection of speed information is two-tiered. First, it allows for a comprehensive dataset of speeds, while also providing Connect Iowa with the information on where broadband services are available. Second, unlike theoretical speed information which was received through the data collection process, the use of speed tests provide real-world information on the speeds that currently exist within the state of Iowa.



Broadband Provider Log

Complete	337
Non-Responsive/Refused	10
In Progress	18
Count of Datasets by Viable Status	365
Total Unique Providers Represented	206

Provider Name	Platform	Status	NDA Execution Date	Notes
Ace Telephone Association	ILEC/CLEC	Data Added to Statewide Inventory	3/8/2010	
AT&T Inc.	Mobile Wireless	Data Added to Statewide Inventory	12/16/2009	
Ayrshire Farmers Mutual Telephone Company	ILEC/CLEC	Data Added to Statewide Inventory	2/17/2010	
Bernard Telephone Company, Inc.	Fixed Wireless	Data Added to Statewide Inventory	5/19/2010	
BitWind Communications, LLC	Fixed Wireless	Data Added to Statewide Inventory		
Brooklyn Mutual Telecommunications Cooperative	ILEC/CLEC	Data Added to Statewide Inventory	4/21/2010	
Cable ONE Inc.	Cable	Data Added to Statewide Inventory	12/7/2009	
CenturyLink	ILEC/CLEC	Data Added to Statewide Inventory	12/4/2009	
Clear Lake Independent Telephone Company	Fiber	Data Added to Statewide Inventory	5/6/2020	
Colo Telephone Company	Fiber	Data Added to Statewide Inventory	1/28/2010	
Eastlight, LLC	Fixed Wireless	Data Added to Statewide Inventory		
Evertex Enterprises	Fixed Wireless	Data Added to Statewide Inventory	2/3/2010	
Farmers Mutual Cooperative Telephone Company - Harlan	ILEC/CLEC	Data Added to Statewide Inventory	2/5/2010	
Farmers Mutual Cooperative Telephone Company - Harlan	Fiber	Data Added to Statewide Inventory	2/5/2010	
Farmers Mutual Telephone Company - Nora Springs	Fiber	Data Added to Statewide Inventory	1/26/2010	
Farmers Mutual Telephone Company - Nora Springs	Cable	Data Added to Statewide Inventory	1/26/2010	
Goldfield Access Network, L.C.	ILEC/CLEC	Data Added to Statewide Inventory	1/22/2010	
Grand River Mutual Telephone Corporation	ILEC/CLEC	Data Added to Statewide Inventory	2/5/2010	
Grand River Mutual Telephone Corporation	ILEC/CLEC	Data Added to Statewide Inventory	2/5/2010	
Grundy Center Municipal Utilities	Fixed Wireless	Data Added to Statewide Inventory		
Grundy Center Municipal Utilities	Cable	Data Added to Statewide Inventory		
I-35 Telephone Company	Fiber	Data Added to Statewide Inventory	2/2/2010	
Kalona Cooperative Telephone Company	Fiber	Data Added to Statewide Inventory	1/20/2010	
Leap Wireless International, Inc.	Mobile Wireless	Data Added to Statewide Inventory	4/6/2010	
Lehigh Valley Cooperative Telephone Association	Fiber	Data Added to Statewide Inventory	4/16/2010	
Loganet	Fixed Wireless	Data Added to Statewide Inventory		
Martelle Cooperative Telephone Association	ILEC/CLEC	Data Added to Statewide Inventory	5/5/2010	
Massena Telephone Company	ILEC/CLEC	Data Added to Statewide Inventory	6/18/2010	
Midlowa Net	ILEC/CLEC	Data Added to Statewide Inventory		
Midlowa Net	Fixed Wireless	Data Added to Statewide Inventory		
Midwest Broadband LLC	Fixed Wireless	Data Added to Statewide Inventory	7/6/2010	
Minburn Communications	Fiber	Data Added to Statewide Inventory	4/7/2010	
Minburn Communications	ILEC/CLEC	Data Added to Statewide Inventory	4/7/2010	
Minburn Communications	ILEC/CLEC	Data Added to Statewide Inventory	4/7/2010	
Minburn Communications	Fiber	Data Added to Statewide Inventory	4/7/2010	
Monarc Technologies	Fiber	Data Added to Statewide Inventory	2/16/2011	
Mutual Telephone Company	Fiber	Data Added to Statewide Inventory	1/25/2010	
NetConx	Fixed Wireless	Data Added to Statewide Inventory	4/6/2010	
New Ulm Telecom, Inc.	ILEC/CLEC	Data Added to Statewide Inventory	3/10/2010	
Northwest Telephone Cooperative Association	ILEC/CLEC	Data Added to Statewide Inventory	2/17/2010	
Preston Telephone Company	ILEC/CLEC	Data Added to Statewide Inventory	2/5/2010	
Qwest Corporation	ILEC/CLEC	Data Added to Statewide Inventory	1/4/2010	
South Slope Cooperative Telephone Company	Fiber	Data Added to Statewide Inventory	2/2/2010	
SpeedNet, LLC	Fixed Wireless	Data Added to Statewide Inventory		
Spencer Municipal Utilities	Cable	Data Added to Statewide Inventory	2/18/2010	
Spencer Municipal Utilities	Fiber	Data Added to Statewide Inventory	2/18/2010	
Sprint Nextel Corporation	Mobile Wireless	Data Added to Statewide Inventory	1/14/2010	
T-Mobile USA, Inc.	Mobile Wireless	Data Added to Statewide Inventory	1/8/2010	
United States Cellular Corporation	Mobile Wireless	Data Added to Statewide Inventory	2/15/2011	
Van Horne Cooperative Telephone Company	Fiber	Data Added to Statewide Inventory	5/18/2010	
Verizon Communications, Inc.	Mobile Wireless	Data Added to Statewide Inventory	12/14/2009	
Walnut Telephone Company	Cable	Data Added to Statewide Inventory	4/14/2010	
Walnut Telephone Company	Fiber	Data Added to Statewide Inventory	4/14/2010	
Walnut Telephone Company	ILEC/CLEC	Data Added to Statewide Inventory	4/14/2010	
Webster-Calhoun Cooperative Telephone Association	Fiber	Data Added to Statewide Inventory	5/21/2010	
West Iowa Telephone Company	ILEC/CLEC	Data Added to Statewide Inventory	1/27/2010	
West Liberty Telephone Company	Fiber	Data Added to Statewide Inventory	1/25/2010	
Woolstock Mutual Telephone	Fixed Wireless	Data Added to Statewide Inventory	5/19/2010	
CenturyLink	Backhaul	Backhaul Provider Only Processing Complete	12/4/2009	
Cogent Communications, Inc.	Backhaul	Backhaul Provider Only Processing Complete		
Level 3 Communications, LLC	Backhaul	Backhaul Provider Only Processing Complete	12/14/2009	
Mediacom Iowa, LLC	Backhaul	Backhaul Provider Only Processing Complete	1/12/2010	
McLeodUSA Telecommunications Services, Inc.	ILEC/CLEC	Provider Approval Solicited		
Ace Telephone Association	Backhaul	Partial Data Received	3/8/2010	
Community Digital Wireless, LLC	Backhaul	Partial Data Received	5/6/2010	
Schaller Telephone Company	ILEC/CLEC	Partial Data Received		
East Buchanan Telephone Cooperative	Fixed Wireless	Provider Gathering Data	4/30/2010	
360networks	Backhaul	No Update to Provide	1/19/2010	
Algona Municipal Utilities	Cable	No Update to Provide	2/9/2010	
Algona Municipal Utilities	Fiber	No Update to Provide	2/9/2010	
Alliance Communications Cooperative, Inc	ILEC/CLEC	No Update to Provide	1/28/2010	
Alliance Communications Cooperative, Inc	Backhaul	No Update to Provide	1/28/2010	
Alliance Communications Cooperative, Inc	Fiber	No Update to Provide	1/28/2010	
Alpine Communications, LC	ILEC/CLEC	No Update to Provide	2/24/2010	
Alpine Communications, LC	Fiber	No Update to Provide	2/24/2010	
Alta Municipal Utilities	Cable	No Update to Provide	5/18/2010	
Andrew Telephone Company	ILEC/CLEC	No Update to Provide	1/19/2010	
Arcadia Telephone Cooperative	ILEC/CLEC	No Update to Provide	5/6/2010	
AT&T Inc.	Backhaul	No Update to Provide	12/16/2009	
Aventure Communications	Fixed Wireless	No Update to Provide	4/8/2010	
Aventure Communications	Backhaul	No Update to Provide	4/8/2010	
Ayrshire Farmers Mutual Telephone Company	Fixed Wireless	No Update to Provide	2/17/2010	
Baldwin Nashville Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	2/3/2010	
Bellevue Municipal Utilities	Fiber	No Update to Provide	5/20/2010	
Bernard Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	5/19/2010	
Bernard Telephone Company, Inc.	Backhaul	No Update to Provide	5/19/2010	
BEVCOMM	ILEC/CLEC	No Update to Provide	6/16/2010	

Board of Water Electric & Communication Trustees of the City of Muscatine	ILEC/CLEC	No Update to Provide	5/14/2010	
Board of Water Electric & Communication Trustees of the City of Muscatine	Cable	No Update to Provide	5/14/2010	
Board of Water Electric & Communication Trustees of the City of Muscatine	Fiber	No Update to Provide	5/14/2010	
Butler-Bremer Communications	ILEC/CLEC	No Update to Provide	4/20/2010	
Butler-Bremer Communications	Cable	No Update to Provide	4/20/2010	
Butler-Bremer Communications	Fiber	No Update to Provide	4/20/2010	
Cascade Communications Company	ILEC/CLEC	No Update to Provide	1/23/2010	
Cascade Communications Company	Fiber	No Update to Provide	1/23/2010	
Casey Mutual Telephone Company	ILEC/CLEC	No Update to Provide	5/3/2010	
Casey Mutual Telephone Company	Backhaul	No Update to Provide	5/3/2010	
Cedar Falls Utilities	Fiber	No Update to Provide	6/16/2010	
Cedar Falls Utilities	Cable	No Update to Provide	6/16/2010	
Center Junction Telephone Company	ILEC/CLEC	No Update to Provide	3/12/2010	
Central Scott Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	4/22/2010	
Central Scott Telephone Company, Inc.	Fixed Wireless	No Update to Provide	4/22/2010	
Chat Mobility	Mobile Wireless	No Update to Provide	1/19/2010	
Circle Computer Resources	Fixed Wireless	No Update to Provide	7/6/2010	
Citizens Mutual Telephone Cooperative	ILEC/CLEC	No Update to Provide	2/26/2010	
Citizens Mutual Telephone Cooperative	Fiber	No Update to Provide	2/26/2010	
City of Hawarden	Cable	No Update to Provide	5/20/2010	
Clarence Telephone Company, Inc.	Fiber	No Update to Provide		
Clear Lake Independent Telephone Company	ILEC/CLEC	No Update to Provide	5/6/2020	
CML Telephone Cooperative, Association of Meriden, Iowa	Fiber	No Update to Provide	1/25/2010	
Comelec Services, Inc.	Fixed Wireless	No Update to Provide	5/7/2010	
Communications 1 Network, Inc.	Fiber	No Update to Provide	4/14/2010	
Community Cable Television Agency of O'Brien County	Cable	No Update to Provide	5/5/2010	
Community Cable Television Agency of O'Brien County	Fixed Wireless	No Update to Provide	5/5/2010	
Community Digital Wireless, LLC	Fixed Wireless	No Update to Provide	5/6/2010	
Complete Communication Services	Cable	No Update to Provide	6/17/2010	
Complete Communication Services	Fiber	No Update to Provide	6/17/2010	
Coon Rapids Municipal Utilities	Cable	No Update to Provide	4/22/2010	
Coon Valley Co-op Telephone Association, Inc.	ILEC/CLEC	No Update to Provide		
Coon Valley Co-op Telephone Association, Inc.	Fixed Wireless	No Update to Provide		
Cooperative Telephone Company	ILEC/CLEC	No Update to Provide	2/2/2010	
Cooperative Telephone Company	Fixed Wireless	No Update to Provide	2/2/2010	
Cooperative Telephone Exchange	Fiber	No Update to Provide	2/2/2010	
Cooperative Telephone Exchange	Backhaul	No Update to Provide	2/2/2010	
Corn Belt Telephone Company	ILEC/CLEC	No Update to Provide	2/15/2010	
Corn Belt Telephone Company	Fiber	No Update to Provide	2/15/2010	
Corn Belt Telephone Company	Fixed Wireless	No Update to Provide	2/15/2010	
Cox Communications, Inc.	Cable	No Update to Provide	1/29/2010	
Cramer IT Consulting, Inc.	Fixed Wireless	No Update to Provide	1/20/2010	
Cumberland Telephone Company	ILEC/CLEC	No Update to Provide	4/27/2010	
Cumberland Telephone Company	Fixed Wireless	No Update to Provide	4/27/2010	
Danville Mutual Telephone Company	ILEC/CLEC	No Update to Provide		
Dixon Telephone Company	Cable	No Update to Provide	5/5/2010	
Dumont Telephone Company	ILEC/CLEC	No Update to Provide	2/25/2010	
Dumont Telephone Company	Fiber	No Update to Provide	2/25/2010	
Dunkerton Telephone Cooperative	ILEC/CLEC	No Update to Provide	4/15/2010	
East Buchanan Telephone Cooperative	ILEC/CLEC	No Update to Provide	4/30/2010	
Ellsworth Cooperative Telephone Association	ILEC/CLEC	No Update to Provide	1/25/2010	
Evertex Enterprises	Cable	No Update to Provide	2/3/2010	
Evertex Enterprises	Fiber	No Update to Provide	2/3/2010	
F&B Communications, Inc.	ILEC/CLEC	No Update to Provide	2/19/2010	
F&B Communications, Inc.	Fixed Wireless	No Update to Provide	2/19/2010	
Farmers & Merchants Mutual Telephone Company	Fiber	No Update to Provide	5/7/2010	
Farmers & Merchants Mutual Telephone Company	Fixed Wireless	No Update to Provide	5/7/2010	
Farmers Cooperative Telephone Company-Dysart	ILEC/CLEC	No Update to Provide	3/12/2010	
Farmers Mutual Cooperative Telephone Company - Harlan	Cable	No Update to Provide	2/5/2010	
Farmers Mutual Cooperative Telephone Company - Harlan	Fixed Wireless	No Update to Provide	2/5/2010	
Farmers Mutual Cooperative Telephone Company-Moulton	Fiber	No Update to Provide	5/21/2010	
Farmers Mutual Telephone Company - Nora Springs	ILEC/CLEC	No Update to Provide	1/26/2010	
Farmers Mutual Telephone Company - Nora Springs	Fixed Wireless	No Update to Provide	1/26/2010	
Farmers Mutual Telephone Company of Stanton, Iowa	ILEC/CLEC	No Update to Provide	4/9/2010	
Farmers Mutual Telephone Company of Stanton, Iowa	Cable	No Update to Provide	4/9/2010	
Farmers Mutual Telephone Company of Stanton, Iowa	Backhaul	No Update to Provide	4/9/2010	
Farmers Mutual Telephone Company-Jesup	ILEC/CLEC	No Update to Provide	4/20/2010	
Farmers Telephone Company-Essex	ILEC/CLEC	No Update to Provide	1/27/2010	
Farmers Telephone Company-Essex	Fixed Wireless	No Update to Provide	1/27/2010	
FiberComm L.C.	ILEC/CLEC	No Update to Provide	2/15/2010	
FiberComm L.C.	Fixed Wireless	No Update to Provide	2/15/2010	
FiberComm L.C.	Backhaul	No Update to Provide	2/15/2010	
Fibernet Communications, LLC	Backhaul	No Update to Provide	3/9/2010	
Frontier Communications Corporation	ILEC/CLEC	No Update to Provide	1/22/2010	
Frontier Communications Corporation	Backhaul	No Update to Provide	1/22/2010	
Goldfield Access Network, L.C.	ILEC/CLEC	No Update to Provide	1/22/2010	
Grand Mound Cooperative Telephone Association	ILEC/CLEC	No Update to Provide		
Grand Mound Cooperative Telephone Association	Fiber	No Update to Provide		
Grand Mound Cooperative Telephone Association	Fixed Wireless	No Update to Provide		
Grand River Mutual Telephone Corporation	Fixed Wireless	No Update to Provide	2/5/2010	
Griswold Cooperative Telephone Company	ILEC/CLEC	No Update to Provide	4/21/2010	
Harlan Municipal Utilities	Cable	No Update to Provide	5/5/2010	
Harmony Telephone Company	Fiber	No Update to Provide	1/12/2010	
Hawkeye Telephone Company	ILEC/CLEC	No Update to Provide	2/12/2010	
Heart of Iowa Communications Cooperative	ILEC/CLEC	No Update to Provide	1/7/2010	
Heart of Iowa Communications Cooperative	Fiber	No Update to Provide	1/7/2010	
Heart of Iowa Communications Cooperative	Backhaul	No Update to Provide	1/7/2010	
Hickory Tech Corporation	ILEC/CLEC	No Update to Provide	2/2/2010	
Hospers Telephone Exchange, Inc.	ILEC/CLEC	No Update to Provide	1/11/2010	
Hospers Telephone Exchange, Inc.	Cable	No Update to Provide	1/11/2010	
Hubbard Cooperative Telephone Association and Cable	ILEC/CLEC	No Update to Provide	5/14/2010	
Huxley Communications Cooperative	Backhaul	No Update to Provide	1/25/2010	
Huxley Communications Cooperative	ILEC/CLEC	No Update to Provide	1/25/2010	
Huxley Communications Cooperative	Fiber	No Update to Provide	1/25/2010	
I-35 Telephone Company	ILEC/CLEC	No Update to Provide	2/2/2010	
I-35 Telephone Company	Fixed Wireless	No Update to Provide	2/2/2010	
IAMO Telephone Company	ILEC/CLEC	No Update to Provide	1/25/2010	
IAMO Telephone Company	Fixed Wireless	No Update to Provide	1/25/2010	
ImOn Communications, LLC	Backhaul	No Update to Provide		
ImOn Communications, LLC	Cable	No Update to Provide		
ImOn Communications, LLC	Fiber	No Update to Provide		
Independence Telecommunications Utility	Cable	No Update to Provide	4/9/2010	

Internet Consulting Services, LLC	Fixed Wireless	No Update to Provide	5/19/2010
Iowa Connect, Inc.	Fixed Wireless	No Update to Provide	5/12/2010
Iowa Network Services	Backhaul	No Update to Provide	3/5/2010
Jefferson Telephone Company	Fiber	No Update to Provide	1/22/2010
Jefferson Telephone Company	ILEC/CLEC	No Update to Provide	1/22/2010
Kalnet	Fixed Wireless	No Update to Provide	5/21/2010
Kalona Cooperative Telephone Company	ILEC/CLEC	No Update to Provide	1/20/2010
KDSC, Inc.	Fixed Wireless	No Update to Provide	5/18/2010
KeyOn Communications, Inc.	Fixed Wireless	No Update to Provide	10/15/2009
KeyOn Communications, Inc.	ILEC/CLEC	No Update to Provide	10/15/2009
Keystone Farmers Cooperative Telephone Company	ILEC/CLEC	No Update to Provide	4/12/2010
Killduff Telephone Company	ILEC/CLEC	No Update to Provide	
La Motte Telephone Company, Inc.	Fixed Wireless	No Update to Provide	2/16/2010
La Motte Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	2/16/2010
LaPorte City Telephone Co	ILEC/CLEC	No Update to Provide	2/22/2010
Laurens Municipal Communications Utility	Cable	No Update to Provide	6/2/2010
Lenox Municipal Utilities	Cable	No Update to Provide	4/20/2010
LISCO Wireless	Fiber	No Update to Provide	1/28/2010
LISCO Wireless	ILEC/CLEC	No Update to Provide	1/28/2010
LISCO Wireless	Backhaul	No Update to Provide	1/28/2010
Lone Rock Cooperative Telephone Company	ILEC/CLEC	No Update to Provide	2/15/2010
Long Lines	ILEC/CLEC	No Update to Provide	5/4/2010
Long Lines	Cable	No Update to Provide	5/4/2010
Long Lines	Backhaul	No Update to Provide	5/4/2010
Long Lines	Backhaul	No Update to Provide	5/4/2010
Long Lines	Backhaul	No Update to Provide	5/4/2010
Long Lines	Backhaul	No Update to Provide	5/4/2010
Long Lines	Backhaul	No Update to Provide	5/4/2010
Long Lines	Backhaul	No Update to Provide	5/4/2010
Lost Nation-Elwood Telephone Company	Fiber	No Update to Provide	4/13/2010
Lynnville Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	
Mabel Cooperative Telephone Company	ILEC/CLEC	No Update to Provide	4/8/2010
Mahaska Communication Group	Fiber	No Update to Provide	5/10/2010
Mahaska Communication Group	Fixed Wireless	No Update to Provide	5/10/2010
Manning Municipal Communication & Television System Utility	Cable	No Update to Provide	4/22/2010
Manning Municipal Communication & Television System Utility	Fixed Wireless	No Update to Provide	4/22/2010
Marne & Elk Horn Telephone Company	ILEC/CLEC	No Update to Provide	2/11/2010
Marne & Elk Horn Telephone Company	Fixed Wireless	No Update to Provide	2/11/2010
Marne & Elk Horn Telephone Company	Backhaul	No Update to Provide	2/11/2010
Martelle Cooperative Telephone Association	Cable	No Update to Provide	5/5/2010
Massena Telephone Company	Backhaul	No Update to Provide	6/18/2010
Mediacom Iowa, LLC	Cable	No Update to Provide	1/12/2010
Mediapolis Telephone Company	ILEC/CLEC	No Update to Provide	4/14/2010
Miles Cooperative Telephone Association	ILEC/CLEC	No Update to Provide	5/17/2010
Milford Cable TV Inc.	Cable	No Update to Provide	4/21/2010
Minerva Valley Telephone Cablevision, Inc.	ILEC/CLEC	No Update to Provide	4/7/2010
Modern Cooperative Telephone Company Inc.	ILEC/CLEC	No Update to Provide	
Mutual Telephone Company	ILEC/CLEC	No Update to Provide	1/25/2010
Mutual Telephone Company of Morning Sun, Iowa	ILEC/CLEC	No Update to Provide	5/5/2010
Mutual Telephone Company of Morning Sun, Iowa	ILEC/CLEC	No Update to Provide	5/5/2010
Nexgen Integrated Communications LLC	Fiber	No Update to Provide	
Nexgen Integrated Communications LLC	ILEC/CLEC	No Update to Provide	
North English Cooperative Telephone Company	ILEC/CLEC	No Update to Provide	5/12/2010
Northeast Iowa Telephone Company	Backhaul	No Update to Provide	4/13/2010
Northeast Iowa Telephone Company	Fixed Wireless	No Update to Provide	4/13/2010
Northeast Iowa Telephone Company	ILEC/CLEC	No Update to Provide	4/13/2010
Northern Iowa Telephone Company	ILEC/CLEC	No Update to Provide	1/25/2010
Northwest Telephone Cooperative Association	Backhaul	No Update to Provide	2/17/2010
Northwest Telephone Cooperative Association	Fixed Wireless	No Update to Provide	2/17/2010
Ogden Telephone Company	Backhaul	No Update to Provide	3/17/2010
Ogden Telephone Company	ILEC/CLEC	No Update to Provide	3/17/2010
Olin Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	2/23/2010
Onslow Cooperative Telephone Association	ILEC/CLEC	No Update to Provide	2/3/2010
Oran Mutual Telephone Company	ILEC/CLEC	No Update to Provide	2/8/2010
Osage Municipal Communications Utility	Fixed Wireless	No Update to Provide	5/18/2010
Osage Municipal Communications Utility	Cable	No Update to Provide	5/18/2010
Palmer Mutual Telephone Company	ILEC/CLEC	No Update to Provide	1/21/2010
Palo Cooperative Telephone Association	ILEC/CLEC	No Update to Provide	5/19/2010
Panora Communications Cooperative	Cable	No Update to Provide	1/29/2010
Panora Communications Cooperative	Fiber	No Update to Provide	1/29/2010
Panora Communications Cooperative	Fixed Wireless	No Update to Provide	1/29/2010
Panora Communications Cooperative	ILEC/CLEC	No Update to Provide	1/29/2010
Panora Communications Cooperative	Cable	No Update to Provide	1/29/2010
Panora Communications Cooperative	Fiber	No Update to Provide	1/29/2010
Panora Communications Cooperative	Fixed Wireless	No Update to Provide	1/29/2010
Partner Communications Cooperative	ILEC/CLEC	No Update to Provide	5/15/2010
Partner Communications Cooperative	Cable	No Update to Provide	5/15/2010
Prairie iNet	Fixed Wireless	No Update to Provide	3/16/2010
Prairieburg Telephone Company, Inc	ILEC/CLEC	No Update to Provide	3/25/2010
Prairieburg Telephone Company, Inc	Fixed Wireless	No Update to Provide	3/25/2010
Premier Communications	Cable	No Update to Provide	1/25/2010
Qwest Corporation	Backhaul	No Update to Provide	1/4/2010
Radcliffe Telephone Company, Inc.	Backhaul	No Update to Provide	4/26/2010
Radcliffe Telephone Company, Inc.	Fiber	No Update to Provide	4/26/2010
Readlyn Telephone Company	ILEC/CLEC	No Update to Provide	2/23/2010
Readlyn Telephone Company	Fiber	No Update to Provide	2/23/2010
Reasnor Telephone Company, LLC	ILEC/CLEC	No Update to Provide	
RingTel Communications	ILEC/CLEC	No Update to Provide	2/17/2010
River Valley Telecommunications Coop	ILEC/CLEC	No Update to Provide	3/23/2010
River Valley Telecommunications Coop	Fiber	No Update to Provide	3/23/2010
River Valley Telecommunications Coop	Fixed Wireless	No Update to Provide	3/23/2010
Rockwell Cooperative Telephone Association	ILEC/CLEC	No Update to Provide	5/12/2010
Rockwell Cooperative Telephone Association	Fiber	No Update to Provide	5/12/2010
Rockwell Cooperative Telephone Association	Backhaul	No Update to Provide	5/12/2010
Royal Telephone Company	Fiber	No Update to Provide	2/12/2010
Sac County Mutual Telephone Co.	Backhaul	No Update to Provide	2/15/2010
Sac County Mutual Telephone Co.	ILEC/CLEC	No Update to Provide	2/15/2010
Scranton Telephone Company	ILEC/CLEC	No Update to Provide	2/1/2010
Scranton Telephone Company	Backhaul	No Update to Provide	2/1/2010
Searsboro Telephone Company	ILEC/CLEC	No Update to Provide	
Sharon Telephone Company	Backhaul	No Update to Provide	5/20/2010
Sharon Telephone Company	Fiber	No Update to Provide	5/20/2010
Sharon Telephone Company	Fixed Wireless	No Update to Provide	5/20/2010
Sharon Telephone Company	ILEC/CLEC	No Update to Provide	5/20/2010
Sioux Valley Wireless	Fixed Wireless	No Update to Provide	6/7/2010

South Slope Cooperative Telephone Company	ILEC/CLEC	No Update to Provide	2/2/2010	
Spencer Municipal Utilities	Backhaul	No Update to Provide	2/18/2010	
Spring Grove Cooperative Telephone Co	Fiber	No Update to Provide		
Springville Cooperative Telephone Association, Inc.	ILEC/CLEC	No Update to Provide	2/15/2010	
Sprint Nextel Corporation	Backhaul	No Update to Provide	1/14/2010	
Sully Telephone Association Inc	ILEC/CLEC	No Update to Provide	4/28/2010	
Sully Telephone Association Inc	Fiber	No Update to Provide	4/28/2010	
Superior Telephone Cooperative	ILEC/CLEC	No Update to Provide	5/24/2010	
Swisher Telephone Company	Fiber	No Update to Provide	2/2/2010	
Templeton Telephone Company	ILEC/CLEC	No Update to Provide	3/12/2010	
Templeton Telephone Company	Backhaul	No Update to Provide	3/12/2010	
Terril Telephone Cooperative	ILEC/CLEC	No Update to Provide	2/12/2010	
Titonka Telephone Company	Backhaul	No Update to Provide	5/4/2010	
Titonka Telephone Company	ILEC/CLEC	No Update to Provide	5/4/2010	
Traer Municipal Utilities	Fixed Wireless	No Update to Provide	4/14/2010	
USA Communications	ILEC/CLEC	No Update to Provide	1/27/2010	
USA Communications	Fiber	No Update to Provide	1/27/2010	
USA Communications	Cable	No Update to Provide	1/27/2010	
Van Buren Telephone Co Inc	ILEC/CLEC	No Update to Provide	1/26/2010	
Van Horne Cooperative Telephone Company	ILEC/CLEC	No Update to Provide	5/18/2010	
Van Horne Cooperative Telephone Company	Backhaul	No Update to Provide	5/18/2010	
Vilisca Farmers Telephone Company	ILEC/CLEC	No Update to Provide	5/20/2010	
Walnut Telephone Company	Backhaul	No Update to Provide	4/14/2010	
Walnut Telephone Company	Fixed Wireless	No Update to Provide	4/14/2010	
Webb-Dickens Telephone Corporation	Fiber	No Update to Provide	1/25/2010	
Wellman Cooperative Telephone Association	ILEC/CLEC	No Update to Provide	5/19/2010	
Wellman Cooperative Telephone Association	Fixed Wireless	No Update to Provide	5/19/2010	
West Iowa Telephone Company	Cable	No Update to Provide	1/27/2010	
West Liberty Telephone Company	Backhaul	No Update to Provide	1/25/2010	
West Liberty Telephone Company	ILEC/CLEC	No Update to Provide	1/25/2010	
West Liberty Telephone Company	Fixed Wireless	No Update to Provide	1/25/2010	
Western Iowa Networks	ILEC/CLEC	No Update to Provide	2/22/2010	
Western Iowa Networks	Fiber	No Update to Provide	2/22/2010	
Western Iowa Networks	Fixed Wireless	No Update to Provide	2/22/2010	
Western Iowa Telephone Association	ILEC/CLEC	No Update to Provide	4/22/2010	
Winnebago Cooperative Telecom Association	Backhaul	No Update to Provide	1/22/2010	
Winnebago Cooperative Telecom Association	ILEC/CLEC	No Update to Provide	1/22/2010	
Winnebago Cooperative Telecom Association	Fiber	No Update to Provide	1/22/2010	
Winnebago Cooperative Telecom Association	Fixed Wireless	No Update to Provide	1/22/2010	
Woolstock Mutual Telephone	ILEC/CLEC	No Update to Provide	5/19/2010	
WTC Communications, Inc.	ILEC/CLEC	No Update to Provide	3/22/2010	
WTC Communications, Inc.	Cable	No Update to Provide	3/22/2010	
WTC Communications, Inc.	Fixed Wireless	No Update to Provide	3/22/2010	
Wyoming Mutual Telephone Company	ILEC/CLEC	No Update to Provide	2/19/2010	
Atkins Telephone Company	ILEC/CLEC	No Update Provided - Use Last Submission Data	5/14/2010	
Atkins Telephone Company	Fiber	No Update Provided - Use Last Submission Data	5/14/2010	
Fenton Co-Op Telephone Company	ILEC/CLEC	No Update Provided - Use Last Submission Data	4/16/2010	
Iowa Telecom	ILEC/CLEC	No Update Provided - Use Last Submission Data	6/18/2010	
Amberwave Communications	Fixed Wireless	Refused to Participate		[JAN-27-11 Jill Lindgren] Received e-mail from provider that they will not participate in this round due to a company re-organization
Eastlight, LLC	Fiber	Refused to Participate		[FEB-16-11 Jill Lindgren] Provider indicated they do not want to share info on fiber platform at this time.
Netconnect	Fixed Wireless	Refused to Participate		[JAN-25-11 Jill Lindgren] Received e-mail from provider that they refuse to participate in the mapping project.
Coon Creek Telecommunications Corp.	ILEC/CLEC	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between January 28, 2010 and August 31, 2010, six attempts were made during this submission period.
Knology of the Plains, Inc.	Cable	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between August 18, 2009 and August 24, 2010, six attempts were made during this submission period.
Knology of the Plains, Inc.	Backhaul	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between August 18, 2009 and August 24, 2010, six attempts were made during this submission period.
Mechanicsville Telephone Company	ILEC/CLEC	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between January 28, 2010 and August 5, 2010, two attempts were made during this submission period.
Mechanicsville Telephone Company	Cable	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between January 28, 2010 and August 5, 2010, two attempts were made during this submission period.
RuralWaves Wireless Internet	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between February 19, 2010 and August 5, 2010, two attempts were made during this submission period.
RuralWaves Wireless Internet	ILEC/CLEC	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between February 19, 2010 and August 5, 2010, two attempts were made during this submission period.
Coon Creek Telecommunications Corp.	Fixed Wireless	Other		[MAR-08-11 Matthew Brunt] This provider offers SDSL and ADSL. They do not offer fixed wireless Internet access.
DISH Network Corporation	Satellite	Other	1/27/2010	[MAR-09-11 Matthew Brunt] Satellite data will not be submitted due to additional information being necessary to show where service is available in the state, rather than submitting the entire state boundary as serviceable area.
Farmers Mutual Telephone Company-Jesup	Cable	Other	4/20/2010	[FEB-02-11 Jill Lindgren] Provider stated there are no broadband services on cable platform.
Global Crossing Telecommunications, Inc.	Backhaul	Other		[FEB-17-11 Wes Kerr] Received word from a provider representative that they still have a Network Security agreement with several Federal agencies and cannot provide data at this time.

Harlan Municipal Utilities	ILEC/CLEC	Other	5/5/2010	[MAR-09-11 Ashley Littell] Provider does not offer DSL service.
Harlan Municipal Utilities	Fiber	Other	5/5/2010	[MAR-09-11 Ashley Littell] Provider does not offer fiber service.
Hughes Network Systems, LLC	Satellite	Other	2/5/2010	[MAR-09-11 Matthew Brunt] Satellite data will not be submitted due to additional information being necessary to show where service is available in the state, rather than submitting the entire state boundary as serviceable area.
Long Lines	Fiber	Other	5/4/2010	[MAR-08-11 Matthew Brunt] Provider does not offer fiber service.
Marne & Elk Horn Telephone Company	Fiber	Other	2/11/2010	[FEB-02-11 Layne Wagner] I called the provider and confirmed that the company does not offer FTTH at this time.
SpeedNet, LLC	Backhaul	Other		[JAN-21-11 Layne Wagner] I spoke with the provider and he stated that they do not provide backhaul to anyone other than themselves.
USA Communications	Backhaul	Other	1/27/2010	[MAR-07-11 Matthew Brunt] Previously submitted middle mile data was not located within the state of Iowa.
Webster-Calhoun Cooperative Telephone Association	ILEC/CLEC	Other	5/21/2010	[JAN-14-11 Layne Wagner] Received notice from provider that the company is 100% FTTH in all exchanges.
WildBlue Communications, Inc.	Satellite	Other	1/8/2010	[MAR-09-11 Matthew Brunt] Satellite data will not be submitted due to additional information being necessary to show where service is available in the state, rather than submitting the entire state boundary as serviceable area.
Board of Water Electric & Communication Trustees of the City of Muscatine	Fixed Wireless	Offers Service but Below FCC Definition	5/14/2010	[MAR-08-11 Matthew Brunt] Speeds were too slow to qualify as broadband.
Sharon Telephone Company	Mobile Wireless	Offers Service but Below FCC Definition	5/20/2010	[FEB-16-11 Layne Wagner] I received the data from the provider and determined that the mobile wireless data does not meet the FCC definition of broadband.