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 TEXAS

April 1, 2011

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TEXAS 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:

The collective stakeholders of Connected Texas 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 to achieve smarter investments and develop targeted state and local broadband policies and programs. We are proud of the role that Connected Texas has played in creating such a powerful tool that will surely benefit not just Texans but consumers and businesses nationwide.

Therefore, as the State Broadband Designated Entity, and in partnership with the state of Texas, please accept this submission from Connected Nation on behalf of the state of Texas' State Broadband Data and Development (SBDD) Grant Program, known as Connected Texas.

This submission 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, Connected Texas: April 1, 2011

NOFA Requirement	Data Transfer Model	Data Description
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 Connected Texas 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.

The Connected Texas program is pleased to submit 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 77.84% of the Texas provider community, or 144 of 185 total providers. Of the 144 participating providers, 65 supplied an update to their network or coverage area(s), while 74 have reported no change. The remaining 5 represent providers who previously supplied data but were non-responsive in the April 2011 update effort or could not verify coverage areas at the time of this submission; 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 41 providers that are not represented in the attached datasets, 34 have either refused to participate in the voluntary program or have remained unresponsive to the numerous attempts at contact by Connected Texas. The remaining 7 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 Broadband Provider Roster and attached methodology documentation will attest, it is the collective opinion of the Connected Texas principals that all commercially reasonable efforts were made to account for 100% of the known Texas broadband provider community, pursuant to this semi-annual data update submission.

Connected Texas has also continued to perform broadband verification activities through several means. In addition to confirmation of service area(s) by each provider, Connected Texas conducts field validation efforts. To date, 103 (55.68%) 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, Connected Texas launched a website to create awareness about the initiative. Connectedtx.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 Connected Texas website encountered 5,155 unique visits during this reporting period, which includes 5,040 visits to the English website and 115 visits to the Spanish website (29,609 total to date for the life of the grant awarded on January 1, 2010, which includes 29,362 to the English website and 247 to the Spanish website). Additionally, this pronounced Web activity netted 66 broadband inquiries over this same reporting period (429 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 Connected Texas website and the Connected Texas 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 Connected Texas 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

Connected Texas 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 Texas Department of Agriculture, outreach was conducted during this data update reporting period by Connected Texas 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 Connected Texas website. Connected Texas also partnered this reporting period with the Texas Department of Agriculture's Regional Field Team Staff to raise awareness in their communities about this initiative and distribute our survey. Connected Texas continues to work in close coordination with statewide associations such as the Texas State Library and Archives Commission, Commission on State Emergency Communication, and Department of Information Resources to promote the importance of broadband connectivity at anchor institutions and participation in this data collection process.

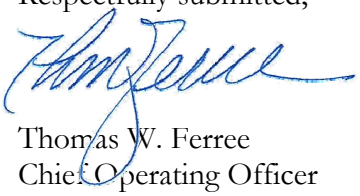
While we continue to document institutions and the related addresses, the connectivity data collected in most categories remains incomplete at this time. Connected Texas will be implementing a number of new processes to increase participation including launching a CAI newsletter to connect communities 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. Additionally, Connected Texas will continue working closely with members of the Texas Broadband Task Force to reach CAI associated with their respective sectors. From our work in Texas, 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 Connected Texas 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 Texas, Connected Nation has previously engaged all federally recognized tribal lands in the area covered by the Connected Texas SBDD grant and reported that outreach as part of past submissions. Throughout the next reporting period Connected Texas plans to engage directly with these tribal communities and will also conduct affirmative outreach with Native American tribal organizations that are active within the area. Connected Texas understands the connectivity challenges facing these tribes, and we have identified a need to include their data as part of our upcoming submissions.

The Connected Texas 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 Texas, as well as the United States through contribution to the National Broadband Map. We look forward to the continuing work ahead.

Respectfully submitted,



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

DATA ACQUISITION: TEXAS COMMUNITY ANCHOR INSTITUTIONS

In this third reporting period of the SBDD, Connected Texas, working in close coordination with the Texas Department of Agriculture, 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 Connected Texas has continued to focus efforts on conducting outreach and raising awareness of this important project.

Connected Texas 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 Connected Texas through ESRI ArcGIS software.

Connected Texas continues to utilize a customized online survey hosted through SurveyMonkey, with a landing page on the Connected Texas 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. Connected Texas 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://connectedtx.org/mapping/Community_Anchor_Institution_Data_Collection.php
Password: CAI_TX_7933

Connected Texas and the Texas Department of Agriculture 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. We have identified two sources of existing CAI connectivity data in the state. The TEX-AN network is a state-managed network serving state agencies, some universities and schools, as well as a few counties and cities, and the Austin Metropolitan Network serves most state agencies within Austin. Data from both of these networks is still being extracted by the Texas Department of Information Resources and Connected Texas will be reporting this data in the next reporting submission.

In tandem with these efforts to identify existing data, Connected Texas 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. Key CAI contacts throughout the state are working with Connected Texas to distribute the survey, and work continues with the Texas Department of Agriculture's Regional Development Teams to reach CAI within their regions.

Connected Texas 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, Connected Texas is developing a CAI newsletter to be distributed quarterly beginning in March 2011. The newsletter will highlight

a CAI in Texas, encourage institutions to share their data, and highlight the National Broadband Map. This newsletter will also be provided to the Regional Development Teams for distribution in their regions throughout the state.

The greatest challenge with collecting this data continues to be the difficulty in securing CAI broadband connectivity data. Connected Texas will continue its ongoing work with the Texas Department of Agriculture and key organization contacts in an effort to raise awareness of this project among CAI. Additionally, the Texas Broadband Task Force will be briefed at an upcoming meeting on the CAI project and will be made aware of the challenges we have faced it the state with collecting this data. The Task Force members will be provided information with how they can assist with outreach and promotion over the coming months.

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	10,604	10,600	10,600	74	67	68
Libraries	1,135	1,135	1,135	99	254	96
Healthcare	868	868	867	76	159	78
Public Safety	2,907	2,907	2,871	252	539	250
Higher Ed Institutions	419	419	419	81	83	30
Other Government	703	703	702	446	61	27
Other Non-Government	0	0	0	0	0	0
Total	**16,636**	**16,632**	**16,594**	**1,028**	**1,163**	**549**

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 Texas.

Inventory of Deliverables, Connected Texas: April 1, 2011

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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.

The provider data collected by Connected Nation on behalf of the state of Texas 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.

TEXAS FIELD VALIDATION NARRATIVE

Connected Nation focused a portion of their 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 Texas on the following providers: Alenco Communications Inc., Allegiance Communications, AT&T, AwesomeNet Inc., Basin 2 Way Radio Inc., Basin Broadband, Big Bend Telephone, BordertoBorder, Broadband Data Services of Texas LLC, Broadcomm, Cable One Inc., Cameron Telephone Company LLC, Cap Rock Telephone Cooperative Inc., Central Texas Cable Partners Inc., Central Texas Telephone Cooperative Inc., CenturyLink, Cequel Communications, Clearwire Corporation, Coleman County Telephone Cooperative Inc., Colorado Valley Telephone Cooperative Inc., Comcast Cable Communications LLC, Community Telephone Company Inc., Consolidated Communications, Cumby Telephone Cooperative Inc., DC Texas.Net, Dell Telephone Cooperative Inc., Digitex.com, Dot11 Networks, East Texas DSL, Eastex Telephone Cooperative Inc., ECTISP, ELC Internet Services Inc., Electra Telephone Company, Element Networks LLC, eNet, ERF Wireless, ETAN Industries, ETS Cablevision Company Inc., Ganado Telephone Company, GEUS, Gower Computer Support Inc., Grande Communications, Grayson CableRocket LLC, Greasy Bend Ventures Inc., GTEK Communications, Guadalupe Valley Communications Systems, GVEC.net, Hill Country Telephone Cooperative Inc., JAB Wireless Inc., KeyOn Communications Inc., La Ward Telephone Exchange Inc., Lake Livingston Telephone Company, Leap Wireless International Inc., Live Air Networks, Livingston Telephone Company Incorporated, Maverick Internet, McDonald Group, Mid-Plains Rural Telephone Cooperative Inc., NetWest Online Inc., Neu Ventures Inc., Nortex Communications, North Texas Broadband LLC, North Texas Cellular Inc., Northland Communications, NTS Communications, Panhandle Telephone Cooperative Inc., Partnership Broadband Inc., Phantom Wave, Poka Lambro Telephone Cooperative Inc., Presidio Community Wireless Network, Promptwireless LLP, Qwest Communications, RB3 LLC, Ridgewood Cable, Rioplex, Riveria Telephone Company Inc., Rock Solid Internet and Telephone, Santa Rosa Telephone Cooperative Inc., Smithville System, South Plains Telephone Cooperative Inc., Southeast Arkansas Telephone Cooperative Inc., Southwest Texas Telephone Company, Speed

of Light Broadband Inc., Sprint, Stelera Wireless LLC, Surf-Side Net, Taylor Telephone Cooperative, Texas Broadband Inc., Texas CellNet, Texas Wireless Internet, Texhoma Wireless, Tier One Converged Networks Inc., Time Warner Cable Inc., TISD, T-Mobile USA Inc., Totelcom Communications LLC, tw telecom, Valley Telephone Cooperative Inc., Verizon Southwest Inc., Wes-Tex Telecommunications Ltd., Wharton County Electric Cooperative Inc., Windstream Communications, and XIT Telecommunications & Technology Ltd.

During this reporting period, Connected Nation conducted 13 additional on-site validation tests with AT&T, Big Bend Telephone, BordertoBorder, Broadcomm, Presidio Community Wireless Network, Rioplex, Southeast Arkansas Telephone Cooperative Inc., and Valley Telephone Cooperative Inc.

From program initiation through this reporting period, Connected Nation has completed in-the-field validation testing against 103 companies (out of a universe of 185 viable providers) totaling 55.68% within the state of Texas.

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 3.15% of Texas households do not have terrestrial fixed broadband service available, and approximately 0.3%[1] of Texas 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 9.76% of rural Texas households do not have terrestrial fixed broadband service available, and approximately 0.96%[3] of rural Texas 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)

[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.

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)
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 Connected Texas project has received a total of 66 inquiries (429 grant inception to date). As more inquiries are submitted to Connected Texas, 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 consumer 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 Connected Texas project launched BroadbandStat on June 16, 2010, and has received a total of 13,536 visits to date, of which 1,779 occurred this reporting period.

SPEED TEST METHODOLOGY

The 1,025 speed tests that are represented in the Connected Texas Speed Test Report during this reporting period (5,271 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 Connected Texas 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 Connected Texas 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 Connected Texas 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 Texas.

Broadband Provider Log

Complete	233
Non-Responsive/Refused	37
In Progress	19
Count of Datasets by Status	**289**
Total Unique Providers Represented	**185**

Provider Name	Platform	Status	NDA Execution Date	Notes
Alenco Communications, Inc.	Fiber	Data Added to Statewide Inventory	11/17/2009	
AT&T Inc.	ILEC/CLEC	Data Added to Statewide Inventory	12/16/2009	
AT&T Inc.	Mobile Wireless	Data Added to Statewide Inventory	12/16/2009	
AwesomeNet, Inc.	Fixed Wireless	Data Added to Statewide Inventory		
Basin 2 Way Radio, Inc.	Fixed Wireless	Data Added to Statewide Inventory	4/14/2010	
C. T. Cube	Fixed Wireless	Data Added to Statewide Inventory	4/22/2010	
Cable ONE Inc.	Cable	Data Added to Statewide Inventory	12/7/2009	
Cap Rock Telephone Cooperative, Inc.	Fixed Wireless	Data Added to Statewide Inventory	3/4/2010	
Celltex Networks, LLC	Fixed Wireless	Data Added to Statewide Inventory		
CenturyLink	ILEC/CLEC	Data Added to Statewide Inventory	12/4/2009	
Charter Communications	Cable	Data Added to Statewide Inventory	12/15/2009	
Clearwire Corporation	Fixed Wireless	Data Added to Statewide Inventory	3/3/2010	
Clearwire Corporation	Mobile Wireless	Data Added to Statewide Inventory	3/3/2010	
Coleman County Telephone Cooperative, Inc.	ILEC/CLEC	Data Added to Statewide Inventory	3/10/2010	
Comcast Cable Communications, LLC	Cable	Data Added to Statewide Inventory	12/7/2009	
Community Telephone Company, Inc.	ILEC/CLEC	Data Added to Statewide Inventory	3/10/2010	
Consolidated Communications	ILEC/CLEC	Data Added to Statewide Inventory	11/30/2009	
CTX Unwired	Fixed Wireless	Data Added to Statewide Inventory	2/14/2011	
Cumby Telephone Cooperative, Inc.	Fiber	Data Added to Statewide Inventory	3/5/2010	
DCTexas.Net	Fixed Wireless	Data Added to Statewide Inventory	6/15/2010	
Dot 10 Wireless	Fixed Wireless	Data Added to Statewide Inventory		
Eastex Telephone Cooperative, Inc.	ILEC/CLEC	Data Added to Statewide Inventory		
Eccentrix Technologies, LLC	Fixed Wireless	Data Added to Statewide Inventory	3/30/2010	
Element Networks, LLC	Fixed Wireless	Data Added to Statewide Inventory	5/14/2010	
ENMR Telephone Cooperative, Inc.	Fiber	Data Added to Statewide Inventory	4/22/2010	
ERF Wireless	Fixed Wireless	Data Added to Statewide Inventory		
Five Area Telephone Cooperative, Inc.	ILEC/CLEC	Data Added to Statewide Inventory	3/8/2010	
Gower Computer Support, Inc.	Fixed Wireless	Data Added to Statewide Inventory	2/14/2011	
GTEK Communications	Fixed Wireless	Data Added to Statewide Inventory	5/24/2010	
Guadalupe Valley Communications Systems	Fiber	Data Added to Statewide Inventory	11/23/2009	
Guadalupe Valley Communications Systems	ILEC/CLEC	Data Added to Statewide Inventory	11/23/2009	
GVEC.net	Fixed Wireless	Data Added to Statewide Inventory	2/25/2010	
Helmsco, Inc.	Fixed Wireless	Data Added to Statewide Inventory	2/15/2010	
Hi Speed Wireless	Fixed Wireless	Data Added to Statewide Inventory	2/22/2011	
IGN-LPG Enterprises L.L.C.	Fixed Wireless	Data Added to Statewide Inventory	2/17/2011	
Industry Tel. Co.	ILEC/CLEC	Data Added to Statewide Inventory	11/6/2009	
JAB Wireless, Inc.	Fixed Wireless	Data Added to Statewide Inventory	6/14/2010	
Leap Wireless International, Inc.	Mobile Wireless	Data Added to Statewide Inventory	4/6/2010	
Maverick Internet	Fixed Wireless	Data Added to Statewide Inventory	6/4/2010	
Mid-Plains Rural Tel. Co-op. Inc.	ILEC/CLEC	Data Added to Statewide Inventory	3/5/2010	
Mid-Plains Rural Tel. Co-op. Inc.	Fiber	Data Added to Statewide Inventory	3/5/2010	
Millennium Telcom, LLC	Fixed Wireless	Data Added to Statewide Inventory	8/26/2010	
Neu Ventures, Inc.	Fixed Wireless	Data Added to Statewide Inventory	6/17/2010	
Nortex Communications	Cable	Data Added to Statewide Inventory	2/12/2010	
Nortex Communications	Fiber	Data Added to Statewide Inventory	2/12/2010	
Nortex Communications	ILEC/CLEC	Data Added to Statewide Inventory	2/12/2010	
Nortex Communications	Fixed Wireless	Data Added to Statewide Inventory	2/12/2010	
North Texas Cellular, Inc.	ILEC/CLEC	Data Added to Statewide Inventory	3/22/2010	
Northland Communications	Cable	Data Added to Statewide Inventory	8/19/2010	
Poka Lambro Telephone Cooperative, Inc.	Fixed Wireless	Data Added to Statewide Inventory	2/15/2010	
Poka Lambro Telephone Cooperative, Inc.	ILEC/CLEC	Data Added to Statewide Inventory	2/15/2010	
RB3, LLC	Fixed Wireless	Data Added to Statewide Inventory	10/23/2009	
RB3, LLC	Cable	Data Added to Statewide Inventory	10/23/2009	
Ridgewood Cable	Fixed Wireless	Data Added to Statewide Inventory		
Rock Solid Internet & Telephone	Fixed Wireless	Data Added to Statewide Inventory	2/14/2011	
South Plains Telephone Cooperative, Inc.	Fiber	Data Added to Statewide Inventory	3/15/2010	
South Plains Telephone Cooperative, Inc.	ILEC/CLEC	Data Added to Statewide Inventory	3/15/2010	
Speed of Light Broadband, Inc.	Fixed Wireless	Data Added to Statewide Inventory	11/3/2009	
Sprint Nextel Corporation	Mobile Wireless	Data Added to Statewide Inventory	1/14/2010	
Stelera Wireless, LLC	Mobile Wireless	Data Added to Statewide Inventory		
T-Mobile USA, Inc.	Mobile Wireless	Data Added to Statewide Inventory	1/8/2010	
Texas CellNet	Fixed Wireless	Data Added to Statewide Inventory	2/17/2011	
TGN Cable	Cable	Data Added to Statewide Inventory	5/20/2010	
Time Warner Cable LLC.	Cable	Data Added to Statewide Inventory	12/21/2009	
United States Cellular Corporation	Mobile Wireless	Data Added to Statewide Inventory	2/15/2011	
Verizon Southwest, Inc.	ILEC/CLEC	Data Added to Statewide Inventory	12/14/2009	
Verizon Southwest, Inc.	Fiber	Data Added to Statewide Inventory	12/14/2009	
Verizon Southwest, Inc.	Mobile Wireless	Data Added to Statewide Inventory	12/14/2009	
WEHCo Video	Cable	Data Added to Statewide Inventory		
Wharton County Electric Cooperative, Inc.	Fixed Wireless	Data Added to Statewide Inventory	4/15/2010	
Windstream Communications	ILEC/CLEC	Data Added to Statewide Inventory	1/19/2010	
XIT Telecommunications & Technology, Ltd.	Fiber	Data Added to Statewide Inventory	3/2/2010	
XIT Telecommunications & Technology, Ltd.	ILEC/CLEC	Data Added to Statewide Inventory	3/2/2010	
Zito Midwest, LLC	Cable	Data Added to Statewide Inventory	2/17/2011	[JAN-19-11 Daryl Coffey] Zito Midwest purchased Galaxy Cable.
Alenco Communications, Inc.	Backhaul	Backhaul Provider Only Processing Complete	11/17/2009	

CenturyLink	Backhaul	Backhaul Provider Only Processing Complete	12/4/2009	
Cogent Communications, Inc.	Backhaul	Backhaul Provider Only Processing Complete		
Covad Communications	Backhaul	Backhaul Provider Only Processing Complete	1/19/2010	
Level 3 Communications, LLC	Backhaul	Backhaul Provider Only Processing Complete	12/14/2009	
Mid-Plains Rural Tel. Co-op. Inc.	Backhaul	Backhaul Provider Only Processing Complete	3/5/2010	
South Plains Telephone Cooperative, Inc.	Backhaul	Backhaul Provider Only Processing Complete	3/15/2010	
Sprint Nextel Corporation	Backhaul	Backhaul Provider Only Processing Complete	1/14/2010	
T-Mobile USA, Inc.	Backhaul	Backhaul Provider Only Processing Complete	1/8/2010	
Zayo Bandwidth, LLC	Backhaul	Backhaul Provider Only Processing Complete		
Cequel Communications	Cable	Approval for Update Not Received - Use Last Submission Data	12/15/2009	
McleodUSA Telecommunications Services, Inc.	ILEC/CLEC	Provider Approval Solicited		
C. T. Cube	ILEC/CLEC	Provider Gathering Data	4/22/2010	
Consolidated Communications	Fiber	Provider Gathering Data	11/30/2009	
Star-NET Online Systems	Fixed Wireless	Provider Gathering Data		
360networks	Backhaul	No Update to Provide	1/19/2010	
AirBand Communications, Inc.	Backhaul	No Update to Provide	3/29/2010	
Aledo Broadband	Fixed Wireless	No Update to Provide	3/26/2010	
Aledo Broadband	Backhaul	No Update to Provide	3/26/2010	
Alenco Communications, Inc.	ILEC/CLEC	No Update to Provide	11/17/2009	
Alenco Communications, Inc.	Fixed Wireless	No Update to Provide	11/17/2009	
Allegiance Communications	Cable	No Update to Provide	2/4/2010	
Argon Technologies	Fixed Wireless	No Update to Provide		
AT&T Inc.	Backhaul	No Update to Provide	12/16/2009	
Big Bend Telephone Company, Inc.	Backhaul	No Update to Provide	3/10/2010	
Big Bend Telephone Company, Inc.	Fiber	No Update to Provide	3/10/2010	
Big Bend Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	3/10/2010	
Blossom Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	3/26/2010	
Border to Border Communications, Inc.	ILEC/CLEC	No Update to Provide		
Brazoria Telephone Company	Cable	No Update to Provide	6/17/2010	
Brazoria Telephone Company	ILEC/CLEC	No Update to Provide	6/17/2010	
Broadband Data Services of Texas, LLC	Fixed Wireless	No Update to Provide	4/29/2010	
Broadcomm.US	Fixed Wireless	No Update to Provide	3/9/2011	
Cameron Telephone Company, LLC	Backhaul	No Update to Provide	3/18/2010	
Cameron Telephone Company, LLC	ILEC/CLEC	No Update to Provide	3/18/2010	
Cap Rock Telephone Cooperative, Inc.	Backhaul	No Update to Provide	3/4/2010	
Cap Rock Telephone Cooperative, Inc.	Fiber	No Update to Provide	3/4/2010	
Cap Rock Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	3/4/2010	
Central Texas Cable Partners, Inc.	Cable	No Update to Provide	2/22/2010	
Central Texas Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	3/2/2010	
Central Texas Telephone Cooperative, Inc.	Fixed Wireless	No Update to Provide	3/2/2010	
Cequel Communications	Backhaul	No Update to Provide	12/15/2009	
Charter Communications	Backhaul	No Update to Provide	12/15/2009	
Coleman County Telephone Cooperative, Inc.	Fixed Wireless	No Update to Provide	3/10/2010	
Colorado Valley Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	3/9/2010	
Colorado Valley Telephone Cooperative, Inc.	Fixed Wireless	No Update to Provide	3/9/2010	
Community Telephone Company, Inc.	Backhaul	No Update to Provide	3/10/2010	
Connextions Telcom	Fiber	No Update to Provide	3/2/2011	
Connextions Telcom	ILEC/CLEC	No Update to Provide	3/2/2011	
Cumby Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	3/5/2010	
Dell Telephone Cooperative, Inc.	Backhaul	No Update to Provide	4/6/2010	
Dell Telephone Cooperative, Inc.	Fiber	No Update to Provide	4/6/2010	
Dell Telephone Cooperative, Inc.	Fixed Wireless	No Update to Provide	4/6/2010	
Dell Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	4/6/2010	
Digitex.com	Fixed Wireless	No Update to Provide	5/25/2010	
Digitex.com	Backhaul	No Update to Provide	5/25/2010	
ECTISP	Fixed Wireless	No Update to Provide		
ELC Internet Services, Inc.	Fixed Wireless	No Update to Provide	3/4/2011	
Electra Telephone Company	ILEC/CLEC	No Update to Provide	11/24/2009	
eNet	Fixed Wireless	No Update to Provide		
ENMR Telephone Cooperative, Inc.	Backhaul	No Update to Provide	4/22/2010	
ENMR Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	4/22/2010	
ETAN Industries	Cable	No Update to Provide		
ETS Cablevision Co., Inc.	Cable	No Update to Provide	10/30/2009	
ETS Cablevision Co., Inc.	Fiber	No Update to Provide	10/30/2009	
Farm to Market Broadband LP	Fixed Wireless	No Update to Provide	4/16/2010	
Five Area Telephone Cooperative, Inc.	Fiber	No Update to Provide	3/8/2010	
Ganado Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	11/16/2009	
GEUS	Cable	No Update to Provide		
Gilmer Cable Television Company, Inc.	Cable	No Update to Provide	6/18/2010	
Grande Communications Network LLC	Cable	No Update to Provide	3/31/2010	
Grayson CableRocket, LLC	Cable	No Update to Provide	6/15/2010	
Greasy Bend Ventures, Inc.	Fixed Wireless	No Update to Provide	8/16/2010	
GTEK Communications	Backhaul	No Update to Provide	5/24/2010	
Guadalupe Valley Communications Systems	Cable	No Update to Provide	11/23/2009	
GVEC.net	Backhaul	No Update to Provide	2/25/2010	
Hill Country Telephone Cooperative, Inc.	Backhaul	No Update to Provide	3/9/2011	
Hill Country Telephone Cooperative, Inc.	Fixed Wireless	No Update to Provide	3/9/2011	
Hill Country Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	3/9/2011	
James Cable, LLC	Cable	No Update to Provide	1/11/2010	
James Cable, LLC	Fixed Wireless	No Update to Provide	1/11/2010	
KeyOn Communications, Inc.	Fixed Wireless	No Update to Provide	10/15/2009	
La Ward Telephone Exchange, Inc.	ILEC/CLEC	No Update to Provide	11/16/2009	
Lake Livingston Telephone Company	ILEC/CLEC	No Update to Provide	11/20/2009	
Livingston Telephone Company Incorporated	ILEC/CLEC	No Update to Provide	2/25/2010	
Livingston Telephone Company Incorporated	Backhaul	No Update to Provide	2/25/2010	
Maverick Internet	Backhaul	No Update to Provide	6/4/2010	
McDonald Group	Cable	No Update to Provide	3/5/2010	
Millennium Telcom, LLC	Cable	No Update to Provide	8/26/2010	
Millennium Telcom, LLC	ILEC/CLEC	No Update to Provide	8/26/2010	
Millennium Telcom, LLC	Fiber	No Update to Provide	8/26/2010	
NetWest Online, Inc.	Fixed Wireless	No Update to Provide	2/23/2010	
Neu Ventures, Inc.	Backhaul	No Update to Provide	6/17/2010	
Neu Ventures, Inc.	Cable	No Update to Provide	6/17/2010	

Nextlink Wireless, Inc.	Backhaul	No Update to Provide	2/12/2010	
Nortex Communications	Backhaul	No Update to Provide	2/12/2010	
North Texas Broadband, LLC	Cable	No Update to Provide	3/1/2010	
North Texas Telephone Company	ILEC/CLEC	No Update to Provide	11/30/2009	
NTS Communications	ILEC/CLEC	No Update to Provide		
NTS Communications	Fiber	No Update to Provide		
Our-Town Internet Service	Fixed Wireless	No Update to Provide	3/31/2010	
Panhandle Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	12/7/2009	
Panhandle Telephone Cooperative, Inc.	Cable	No Update to Provide	12/7/2009	
Panhandle Telephone Cooperative, Inc.	Fixed Wireless	No Update to Provide	12/7/2009	
Peoples Communication, Inc.	ILEC/CLEC	No Update to Provide	3/4/2010	
Peoples Communication, Inc.	Backhaul	No Update to Provide	3/4/2010	
Poka Lambro Telephone Cooperative, Inc.	Fiber	No Update to Provide	2/15/2010	
Poka Lambro Telephone Cooperative, Inc.	Backhaul	No Update to Provide	2/15/2010	
Promptwireless, LLP	Fixed Wireless	No Update to Provide	4/27/2010	
Pulsestream Internet Services	Backhaul	No Update to Provide		
Rhino Communications	Fixed Wireless	No Update to Provide		
Rioplex Wireless LTD	Fixed Wireless	No Update to Provide	3/3/2010	
Riviera Telephone Company, Inc.	Backhaul	No Update to Provide	3/11/2010	
Riviera Telephone Company, Inc.	ILEC/CLEC	No Update to Provide	3/11/2010	
Santa Rosa Telephone Cooperative, Inc.	Backhaul	No Update to Provide	3/9/2010	
Santa Rosa Telephone Cooperative, Inc.	Fiber	No Update to Provide	3/9/2010	
Santa Rosa Telephone Cooperative, Inc.	Fixed Wireless	No Update to Provide	3/9/2010	
Santa Rosa Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	3/9/2010	
SmartBurst, LLC	Fixed Wireless	No Update to Provide	8/4/2010	
Smithville System	Fixed Wireless	No Update to Provide	6/17/2010	
Southwest Arkansas Telephone Cooperative, Inc.	Backhaul	No Update to Provide	1/19/2010	
Southwest Arkansas Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	1/19/2010	
Southwest Texas Telephone Company	Fixed Wireless	No Update to Provide	3/3/2010	
Tatum Telephone Company	ILEC/CLEC	No Update to Provide	11/24/2009	
Taylor Telephone Cooperative, Inc.	Backhaul	No Update to Provide	3/11/2010	
Taylor Telephone Cooperative, Inc.	Fiber	No Update to Provide	3/11/2010	
Taylor Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	3/11/2010	
Texas Broadband, Inc.	Fixed Wireless	No Update to Provide	5/12/2010	
Texas Wireless Internet	Fixed Wireless	No Update to Provide	5/14/2010	
Texhoma Wireless	Fixed Wireless	No Update to Provide	3/8/2011	
Tier One Converged Networks, Inc.	Fixed Wireless	No Update to Provide	3/24/2010	
Time Warner Cable LLC.	Backhaul	No Update to Provide	12/21/2009	
TISD	Fixed Wireless	No Update to Provide	4/19/2010	
Totelcom Communications, LLC	Fixed Wireless	No Update to Provide	11/30/2009	
Totelcom Communications, LLC	ILEC/CLEC	No Update to Provide	11/30/2009	
tw telecom of texas, llc	Backhaul	No Update to Provide	3/10/2010	
US Cable Corp.	Cable	No Update to Provide	5/20/2010	
Valley Telephone Cooperative, Inc.	Backhaul	No Update to Provide	11/24/2009	
Valley Telephone Cooperative, Inc.	Fiber	No Update to Provide	11/24/2009	
Valley Telephone Cooperative, Inc.	Fixed Wireless	No Update to Provide	11/24/2009	
Valley Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	11/24/2009	
Verizon Southwest, Inc.	Backhaul	No Update to Provide	12/14/2009	
Versalink Enterprises, LLC	Cable	No Update to Provide	5/11/2010	
Wes-Tex Telecommunications, Ltd.	Backhaul	No Update to Provide	3/1/2010	
Wes-Tex Telecommunications, Ltd.	Fixed Wireless	No Update to Provide	3/1/2010	
Wes-Tex Telecommunications, Ltd.	Cable	No Update to Provide	3/1/2010	
Wes-Tex Telecommunications, Ltd.	ILEC/CLEC	No Update to Provide	3/1/2010	
West Texas Rural Telephone Cooperative, Inc.	Cable	No Update to Provide	3/31/2010	
West Texas Rural Telephone Cooperative, Inc.	Fiber	No Update to Provide	3/31/2010	
West Texas Rural Telephone Cooperative, Inc.	Backhaul	No Update to Provide	3/31/2010	
West Texas Rural Telephone Cooperative, Inc.	ILEC/CLEC	No Update to Provide	3/31/2010	
Wharton County Electric Cooperative, Inc.	Backhaul	No Update to Provide	4/15/2010	
XO Communications, LLC	Backhaul	No Update to Provide	2/12/2010	
Basin Broadband, Inc.	Fixed Wireless	No Update Provided - Use Last Submission Data	3/23/2010	
CIT Broadband	Fixed Wireless	No Update Provided - Use Last Submission Data		
East Texas DSL	Fixed Wireless	No Update Provided - Use Last Submission Data	5/25/2010	
ETEX Communications, LP	ILEC/CLEC	No Update Provided - Use Last Submission Data	2/25/2010	
ETEX Communications, LP	Fiber	No Update Provided - Use Last Submission Data	2/25/2010	
ETEX Communications, LP	Backhaul	No Update Provided - Use Last Submission Data	2/25/2010	
Southwest Texas Telephone Company	ILEC/CLEC	No Update Provided - Use Last Submission Data	3/3/2010	
Southwest Texas Telephone Company	Backhaul	No Update Provided - Use Last Submission Data	3/3/2010	
Windstream Communications	Backhaul	No Update Provided - Use Last Submission Data	1/19/2010	
Phonoscope Enterprises Group, LLC	Cable	Solicited Initial Data	5/20/2010	
Phonoscope Enterprises Group, LLC	Backhaul	Solicited Initial Data	5/20/2010	
Presidio Community Wireless Network	Fixed Wireless	Solicited Initial Data		
Reliance Globalcom Services, Inc.	Backhaul	Solicited Initial Data		
Texas Communications	Fixed Wireless	Solicited Initial Data		
Texas Communications	ILEC/CLEC	Solicited Initial Data		
AMA TechTel	Fixed Wireless	Refused to Participate		[FEB-01-11 David Coffey] Representative stated they would not participate as long as the "big boys" were involved (ATT, Verizon, etc.). I told him I would call him again in about six months to see if he had changed his mind. He did thank me for calling and keeping them in mind.
Anvil Communications	Fixed Wireless	Refused to Participate		[JAN-14-11 Dwayne Goodman] Spoke directly to a company representative. He still refuses to participate saying that he doesn't need marketing help and doesn't feel there is a benefit.
Broadwaves	Fixed Wireless	Refused to Participate		[FEB-16-11 Daryl Coffey] Spoke with the provider who said "I don't care to be on there...right now, at least."
Buford Media Group	Cable	Refused to Participate		[JAN-19-11 Daryl Coffey] Sent an e-mail to which the provider responded saying "We are still not interested at this time."

Cybercom Corporation	Fixed Wireless	Refused to Participate		[JAN-05-11 David Coffey] Attempted to telephone representatives of the company to invite them to participate in the Texas broadband mapping initiative. I spoke with an associate that stated that they were still not interested in participating with the initiative.
ELP Networks, Inc.	Fixed Wireless	Refused to Participate		[JAN-05-11 David Coffey] Spoke with owner who conveyed that he is contemplating selling his fixed wireless operations. He stated he would wait to send in documentation until he decided what he was going to do. If he does not sell he would consider joining the program this fall. Right now he has no interest with participation.
Fiberlight, LLC	Backhaul	Refused to Participate	4/20/2010	[FEB-24-11 Dwayne Goodman] A company representative responded to the 2010 outreach process refusing to provide backhaul information; the company sees no reason to give up confidential information. The company has been non-responsive to the April 2011 submission requests; therefore, it is assumed the refusal status still stands.
Gecko Inter.net	Fixed Wireless	Refused to Participate		[JAN-14-11 Dwayne Goodman] Spoke to a company representative indicating the management still does not have any interest to participate with the broadband mapping project.
Internet America Wireless Internet Access	Fixed Wireless	Refused to Participate		[JAN-14-11 Dwayne Goodman] A company representative has been non-responsive to voicemails and e-mails. Left voicemail indicating if a call is not returned, an assumption will be made that his position of "Refusal to Participate" still stands as noted for the October 2010 map release.
SOS Communications	Fixed Wireless	Refused to Participate		[JAN-24-11 David Coffey] Received an e-mail from SOS stating, "We do not want to participate. Don't bother us anymore."
Terral Telephone Company	Fixed Wireless	Refused to Participate		[FEB-16-11 David Coffey] Spoke with company representative who stated that she had spoken with her boss about submitting data and he declined at this time. She stated that they were a very small organization and didn't have the time. I told her we would work with her to gather the necessary information. She stated that we would talk before the next updates and they would try to participate but for now they were declining to participate. For this time period we will list the company as 'Refused to Participate.'
Twilight Communications	Fixed Wireless	Refused to Participate		[FEB-16-11 David Coffey] Spoke with company representative who stated that they were in the process of negotiating the possible sale of the company. He said he had filled in some of the data but was reluctant to submit anything due to the possible sale. He stated that if he did not sell he would submit the data to us for the next update in October. We will list him 'Refused to Participate' at this time.
Xanadoo, LLC		Refused to Participate		[FEB-17-11 Wes Kerr] A provider representative sent a message that they will not be participating, as they have determined that they do not have the resources necessary.
281 Communications, Inc.	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 9, 2009 and September 20, 2010, five attempts have been made during this submission period.
Bee Creek Communications	Fixed Wireless	Non-Responsive to Multiple Attempts	5/21/2010	In addition to multiple contact attempts made between September 9, 2009 and August 9, 2010, four attempts have been made during this submission period.
Centrovision	Cable	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between October 26, 2009 and August 6, 2010, six attempts have been made during this submission period.
Centrovision	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between October 26, 2009 and August 6, 2010, six attempts have been made during this submission period.
CKS Wireless, Inc.	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between February 10, 2010 and August 12, 2010, four attempts were made during this submission period.
East Texas Broadband	Fixed Wireless	Non-Responsive to Multiple Attempts		Ten contact attempts were made between July 7, 2010 and February 18, 2011.
East Texas Cable Co.	Cable	Non-Responsive to Multiple Attempts		In addition to multiple contacts made between January 22, 2010 and September 20, 2010, three attempts were made during this submission period.
East Texas Wifi	Fixed Wireless	Non-Responsive to Multiple Attempts		Ten contacts were made between July 7, 2010 and February 18, 2011.

Hometown Computing	Fixed Wireless	Non-Responsive to Multiple Attempts		In addtion to multiple contact attempts made between September 10, 2009 and August 11, 2010, six attempts were made during this submission period.
Indian Creek Internet Services	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 13, 2010, seven attempts were made during this submission period.
Liquid Stone Wireless	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 12, 2010, five attempts were made during this submission period.
LSCWeb.Com	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 5, 2010, four attempts were made during this submission period.
Medicine Park Telephone Company	Backhaul	Non-Responsive to Multiple Attempts		Two contact attempts were made between January 31, 2011 when the provider was identified and February 11, 2011.
Pathwayz Communications, Inc.	ILEC/CLEC	Non-Responsive to Multiple Attempts		Fourteen contact attempts were made between February 17, 2010 and January 13, 2011.
Pathwayz Communications, Inc.	Fixed Wireless	Non-Responsive to Multiple Attempts		Fourteen contact attempts were made between February 17, 2010 and January 13, 2011.
Sterling Cable	Cable	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 10, 2010, six attempts were made during this submission period.
Sterling Cable	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 10, 2010, six attempts were made during this submission period.
Telecom Cable, LLC	Cable	Non-Responsive to Multiple Attempts		Eight contact attempts were made between October 27, 2009 and February 22, 2011.
TWIN Wireless, Inc.	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 11, 2010, 12 attempts were made during this submission period.
VRFuturenet	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 11, 2010, eleven attempts were made during this submission period.
Western Broadband	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 10, 2010, nine attempts were made during this submission period
WesTex Connect Internet	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 4, 2010, 10 attempts were made during this submission period.
Windjammer Communications, LLC	Cable	Non-Responsive to Multiple Attempts	11/16/2009	In addition to multiple contact attempts made between October 27, 2009 and August 11, 2010, six attempts were made during this submission period.
Zeecon/Wireless Internet, LLC	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between September 10, 2009 and August 10, 2010, 10 attempts were made during this submission period.
Aledo Broadband	ILEC/CLEC	No Update to Provide	3/26/2010	[MAR-23-11 Dawn Clark] Provider does not offer DSL.
Covad Communications	ILEC/CLEC	Other	1/19/2010	[FEB-18-11 Sarah Finne] Provider does not offer residential DSL. They submitted business data, so we will only submit their backhaul data to NTIA.
Digital Passage	Fixed Wireless	Other		[FEB-27-11 Dwayne Goodman] Owner of Digital Passage acquired Urnet late year 2010. Previous owner of Urnet forwarded April 2011 data submission requests to Digital Passage. On January 10, 2011 contacted Digital Passage owner directly to present the Connected Texas broadband inventory project and to receive approval of continued carriage of Urnet coverage within the state broadband inventory map. Skeptical comments were made during the initial conversation. Owner indicated he would review all material as time permits and make a decision of participation. Since that time frame the owner of Digital Passage has been non-responsive to voice mails and e-mails.
DISH Network Corporation	Satellite	Other	1/27/2010	[MAR-09-11 Sarah Finne] 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.
Hughes Network Systems, LLC	Satellite	Other	2/5/2010	[MAR-09-11 Sarah Finne] 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.

Pulsestream Internet Services	Fixed Wireless	Other		[JAN-01-11 Dawn Clark] This provider is selected as "Other" status because they do not provide fixed wireless residential service. However they do offer backhaul services so they are remaining "viable."
Rock Solid Internet & Telephone	Backhaul	Other	2/14/2011	[FEB-08-11 Sarah Finne] Backhaul record was added in error; provider does not offer.
Rock Solid Internet & Telephone	ILEC/CLEC	Other	2/14/2011	[MAR-23-11 Dawn Clark] Provider does not offer DSL.
Wes-Tex Telecommunications, Ltd.	Fiber	Other	3/1/2010	[MAR-31-11 Dawn Clark] Provider does not have fiber service.
WildBlue Communications, Inc.	Satellite	Other	1/8/2010	[MAR-09-11 Sarah Finne] 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.