

# Application to DHCD Submitted through CAMS

CHARLES CITY COUNTY GOVERNMENT

Virginia Telecommunications Initiative 2020

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**Application ID:** 64508302019142247  
**Application Status:** Pending  
**Program Name:** Virginia Telecommunications Initiative 2020  
**Organization Name:** CHARLES CITY COUNTY GOVERNMENT  
**Organization Address:** 10900 COURTHOUSE ROAD  
CHARLES CITY, VA 23030  
**Profile Manager Name:** Abbey Pemberton  
**Profile Manager Phone:** (804) 652-4705  
**Profile Manager Email:** apemberton@co.charles-city.va.us

**Project Name:** Virginia Telecommunications Initiative 2020  
**Project Contact Name:** Michelle Johnson  
**Project Contact Phone:** (804) 652-4721  
**Project Contact Email:** mjohnson@co.charles-city.va.us  
**Project Location:** 10900 Courthouse Road  
Charles City, VA 23030-3426  
**Project Service Area:** Charles City County

**Total Requested Amount:** \$3,966,012.00

**Required Annual Audit Status:** Pending Review

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## Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
<b>Telecommunications</b>	<b>\$3,966,012.00</b>	<b>\$1,322,004.00</b>	<b>\$5,288,016.00</b>
Construction	\$3,966,012.00	\$1,322,004.00	\$5,288,016.00
<b>Total:</b>	<b>\$3,966,012.00</b>	<b>\$1,322,004.00</b>	<b>\$5,288,016.00</b>

## Budget Narrative:

The proposed project represents a partnership between Comcast and Charles City County. As indicated in the application, Comcast will provide approximately 25% of the projected construction costs of \$5,288,016, totaling approximately \$1,322,004. All project soft costs to include engineering and design and construction management are will be absorbed by the grant partners or incurred as part of the grant application process. (See attachment 12: Documentation of Supporting Costs)

## Questions and Responses:

### 1. Project Area

Explain why and how the project area(s) was selected. Describe the proposed geographic area including specific boundaries of the project area (e.g. street names, local and regional boundaries, etc.). Attach a copy of the map of your project area(s). Label map: Attachment 1 –Project Area Map.

### Answer:

The geographic area for this proposed project (the “Comcast Broadband Project”) includes approximately 141 miles of infrastructure generally dispersed throughout much of the whole north-central area of the Charles City County (“County”), as noted on the attached Project Area map.

The project area was selected after consultation between the County and Comcast and meets the eligibility criteria established by the Virginia General Assembly and the Department of Housing and Community Development (“DHCD”) for a Virginia Telecommunication Initiative (“VATI”) award. It aligns with the geographic footprint of much of Comcast’s existing infrastructure for its residential Video product. Comcast does not currently offer Internet service in Charles City County.

The County and Comcast discussed the significant need for high speed broadband in Charles City County, as evidenced by the survey the County conducted of residents and businesses. While Comcast expressed to the County a willingness to provide broadband service to the area if economically feasible, a review of the costs to

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provide service exceeded the amount Comcast could invest. Given the opportunity to obtain VATI funding, the County and Comcast agreed to partner and submit an application for funding.

There are an estimated 2,350 residential and commercial locations within 300' of the road center in the Comcast Broadband Project area. Comcast proposes to enhance its network so that the area is serviceable with broadband speeds of up to 1 gigabit per second ("Gbps") and 35 megabits per second ("Mbps") up over a hybrid fiber coaxial network for residential customers and 10 Gbps for Business customers. Consistent with the Charles City County franchise requirements for Video service construction, Comcast will apply the same construction standards to the locations included in this project so that these 2,350 locations will be connected to Comcast's network without a customer contribution.

In addition, homes within the project area situated in excess of 300' from the road center may also have access to broadband service, but may require a contribution in aid of the construction. However, distance is not the only factor in determining whether a customer contribution would be necessary. Factors such as necessary underground trenching, distance from certain electronics on the network, and easement and franchise requirements, among other factors, would be considered. Comcast would provide each home with a contribution estimate, if any, prior to construction. At this stage, the number of additional homes is not yet determined.

2.

Describe your outreach efforts to identify existing providers in the selected project area. Provide a detailed explanation of how this information was compiled and the source(s). Provide a map and list of all existing providers (fixed and wireless) and speeds offered within the project area. Label Map: Attachment 2 – Existing Provider Map; label documentation: Attachment 3 – Documentation on CAF Funding Area.

**Answer:**

Charles City County's efforts to identify and encourage existing broadband providers has been ongoing since at least 2013. In that year, Charles City County received a \$25,000 telecommunications planning grant from DHCD. An additional \$10,000 was provided from the County Economic Development Authority ("EDA") as match. The county contracted with consultant firm Design Nine to produce the attached Charles City County Project Recommendations, an asset inventory and planning document, in September 2014. The following year, Charles City County received a \$600,000 economic development grant from DHCD designed to spur job retention and creation. An additional \$55,000 from the County EDA served as a match. The grant was to provide infrastructure for an Internet provider to begin offering Internet service in the area around the Roxbury Industrial Park. The county initially expects service to begin by December 2015 through a partnership with a wireless internet services provider ("WISP").

In 2016, partner company SCS Broadband ("SCS") informed the county's board of supervisors that high-speed

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access would begin by November 2016, citing topography concerns as one reason for delaying tower activation. The following year, County officials conducted a meeting with SCS and Design Nine to discuss the tower design and reasons why the system was not yet operable. After that meeting, some service became available to businesses in the Roxbury Industrial Park and SCS announced that an additional tower may have to be added because Charles City's landfill blocked the path of one of the signals.

In 2018, SCS failed to acquire commercial space on a tower to assist with signal projection, as SCS had committed to do. Additional meetings were held to correct deployment issues throughout 2018 and 2019. Despite best and continuing efforts by the County, citizens of Charles City County are still not connected. Therefore, representations on the FCC maps that indicate that SCS is offering service is not accurate.

In addition, County staff met with Lumos Networks about service. While Lumos expressed some interest, ultimately no arrangement was made to provide wireless Internet service in Charles City County.

In 2019, the County continues its efforts to ensure broadband access to its residents. However, the County has conducted several meetings with internet service providers to evaluate other options. Comcast is the only willing to commit to the County for a VATI project.

Charles City County issued the following public notice<sup>1</sup> and received no responses from Internet service providers:

## CHARLES CITY COUNTY BOARD OF SUPERVISORS NOTICE OF AND REQUEST FOR PUBLIC COMMENT VIRGINIA TELECOMMUNICATIONS INITIATIVE (VATI) 2020 APPLICATION:

Charles City County intends to file a grant application with the Virginia Department of Housing and Community Development (DHCD) under its 2020 Virginia Telecommunications Initiative ("VATI"). In accordance with VATI Program guidelines, Charles City County is requesting public comments regarding the proposed submission. Comments will be accepted from August 6 through August 21, 2019.

**BACKGROUND/ SUMMARY:** Facilitating the expansion of broadband access across the unserved areas of Charles City County continues to be a top priority for the County's Board of Supervisors. This grant submission will request the financial assistance necessary for carrying out the project, through a public/private partnership. The Virginia Department of Housing and Community Development (DHCD) announced a competitive grant and application process to award \$19 million to eligible applicants to

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provide last-mile services to unserved areas in the Commonwealth of Virginia. The primary objective of the VATI is to provide assistance to supplement construction costs by private sector broadband service providers, in partnership with local units of government to extend service to areas that are presently unserved by any broadband provider. Unserved areas are defined as having broadband speeds of less than 10 Mbps download and 1 Mbps upload or less. In addition, a proposed project area is considered eligible if 10% or less of serviceable units have access to service with no additional special construction costs from any provider as of the date of the application for the proposed project areas. Applications must be submitted by a unit of government (Towns, Cities, Counties, EDA/ IDA, Broadband/ Wireless Authorities, Planning District Commissions, etc.) with a private sector provider(s) as a co-applicant. Public comment is encouraged.

COMMENT SUBMITTAL: Attn: Abbey Pemberton Department of Finance Charles City County Post Office Box 128 Charles City, VA 23030 Email: apemberton@co.charles-city.va.us

### 3. Project Need/Description

To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds of 10 Mbps / 1 Mbps or less and with less than 10 percent service overlap within the project area. Describe any anticipated service overlap with current providers within the project area. Provide specific information as to how you determined the percentage overlap. Label Attachment: Attachment 4 – Documentation Unserved Area VATI Criteria.

#### Answer:

The proposed project area is unserved based on data available through the Federal Communications Commission's publicly available Form 477 and direct information from Charles City County residents and the County Administration. Comcast and Charles CityCounty anticipate no service overlap within the project area with providers offering service over the VATI speed threshold.

While the attached spreadsheet of FCC Form 477 data shows Verizon offers DSL Internet service in some of the census blocks encompassing the project area, Charles City County has verified that service is not offered that would result in classifying the project area as served according to the VATI guidelines. Specifically, Verizon DSL is shown to provide service to 180 census blocks in Charles City County noted in Attachment 18 which are under the speed threshold noted in the VATI guidelines. There are 42 census blocks in which DSL service of 15 Mbps down / 1 Mbps up are reported. Of these, at least 11 do not fall within the project area. Regarding the remaining census blocks, Charles City County conducted a survey of residents and determined the need for broadband in this area.

As noted in above in Question 2, the FCC maps indicating that SCS is offering internet service to 99% of the

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county are not accurate.

As also noted in Question 2, Charles City County issued a public notice concerning the project area and no provider responded that it serves the area.

Therefore, based on the best information currently available, Comcast and Charles CityCounty understand that the area is unserved.

4. Provide the number of residential serviceable units in the project area(s). Describe the eligible premises that will be served by the proposed project and the basis for these projections.

**Answer:**

Charles CityCounty does not have independent population estimates, however 2017 U.S. Census Bureau data show the population of the county was approximately 7,004. According to the Charles City County administration, the county contains approximately 3,900 homes.

There are a total of 2,350 residential and commercial locations within the proposed service area in Charles City County. The number of locations was determined after a physical “walk out” of the area encompassing the Comcast Broadband Project. The “walk out” was performed by Comcast. Comcast proposes to expand its network to provide wired broadband service. In addition, upon completion of this project, Comcast customers who subscribe to an Xfinity Internet package will have access to Xfinity WiFi hotspots, including those that would be newly added to the Comcast Broadband Project area, for no additional cost. Moreover, these Comcast Broadband Project area customers would be able to access any of Comcast’s hotspots throughout Virginia and across the country. Comcast has the country’s largest WiFi network, including more than 19 million hotspots nationwide and over 600,000 in Virginia. Even non-subscribers of Xfinity Internet can gain WiFi hotspot access using a WiFi On Demand pass.

According to Charles City County School Board, there are approximately 640 public school students within the Comcast Broadband Project area who may be without access to broadband. Through construction of Comcast’s network to the Comcast Broadband Project area, more Charles City County school students would have Internet access, plus all qualifying low-income families will also have access to Comcast’s Internet Essentials program. Internet Essentials is the nation’s largest and most comprehensive broadband adoption program and Comcast’s number one community impact initiative. It provides low-cost Internet service, the option to purchase an Internet-ready computer, and access to free digital literacy training online.

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Since launching in 2011, Comcast has made dozens of improvements to the program, including 12 eligibility expansions—bringing Internet Essentials to new audiences such as public housing residents, low-income veterans, seniors, community college students, and new this year, to all qualified low-income households living in Comcast’s service area. Since 2011, Internet Essentials has connected more than eight million low-income Americans (in 2 million households) to the Internet at home.

5. Indicate the numbers of businesses and community anchor institutions the proposed project will pass in the project area. Also indicate the number of home-based businesses. Provide specific information.

**Answer:**

According to Charles CityCounty’s Commissioner of Revenue, there are 79 businesses and 247 home-based businesses located within the county. Comcast offers small and medium-sized businesses Internet services that accommodate significant bandwidth and networking needs, as well as a variety of voice services and plans that include multiple lines and calling features. Additionally, Comcast Business can provide multi-gig speeds to business customers in Comcast’s footprint – whether an enterprise with locations across the country that needs multi-gigabit speed or a small business with only a handful of locations.

There are 25 community anchor institutions across Charles City County, a list of which is included in the attachments.

6. Understanding that projected take rates are an estimate, provide the anticipated take rate for the proposed service within one year of project completion and describe the basis for the estimate. Also detail all actions (e.g. marketing activities, outreach plan) to be implemented to reach the identified potential serviceable units within the project area.

**Answer:**

Comcast’s business model is not dependent upon a particular take rate. Forecasting a take rate with a high degree of accuracy is most challenging as the actual number of customers who choose to subscribe is beyond the parties’ control.

Comcast’s take rate estimate for the Comcast Broadband Project is based upon several unique factors. Charles CityCounty’s support for the project and involvement with the community is expected to add heightened awareness earlier than might otherwise occur. The public nature of the VATI program is also expected to add to the early awareness of residents of broadband availability and positively enhance the take rate. All of the factors combined inform our estimate that, on the high end, some 45% to 55% of residents may take service within the first year after project completion.

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These projections for overall subscriber levels are dependent on several factors and even an initial prediction may change as the project progresses. Comparisons between applicants may not provide a useful measure of broadband access as each applicant will have different service offerings, marketing campaigns, and other intangibles that could drive take rates. For example, Comcast take rates may vary from those of other providers because Comcast offers more services than broadband alone – including video, telephone, mobile telephone, and home security – and the company offers bundled pricing promotions from time to time. These additional products and pricing options can change the value proposition of Comcast service for each household that is unique among providers.

Comcast does undertake various actions to make residents aware that service is available. During the construction phase, before the service is active, the presence of Comcast vehicles visually alerts residents that service is coming. Comcast personnel involved with the construction in the public rights of way are often asked about availability. Soon after completing construction, Comcast provides notice to potential customers of service availability on a rolling basis. It typically employs various communication tactics to inform residents of availability. These tactics can include direct mail pieces, door hangers, and visits by Comcast sales representatives to residents' homes. These efforts augment existing advertising campaigns already in place within Charles City County for Comcast's existing customer base. Once service is established, Comcast may communicate with these residents through direct mail, direct e-mail, radio ads, video ads, and other marketing tactics.

7. For wireless projects only: Please explain the ownership of the proposed wireless infrastructure. Will the wireless co-applicant own or lease the radio mast, tower, or other raised structure onto which the wireless infrastructure will be installed?

**Answer:**

N/A

8. Provide the proposed download and upload speeds for the project area. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. Describe the Internet service offerings to be provided after completion of this project and your price structure for these services. The service offerings should include all relevant tiers.

**Answer:**

In 2018, Comcast increased the download speeds of several of its residential "Performance," "Performance Pro," and "Blast!" broadband options. The broadband infrastructure Comcast would put in place in Charles City County would offer all customers six residential and business broadband options that exceed the minimum requirements for VATI, as noted in the tables below:

Residential Tier	Speeds up to
Performance	60 Mbps down / 5 Mbps up



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Performance Pro	150 / 5
Blast!	250 / 10
Extreme Pro	400 / 10
Gig	1000 (1 Gbps) / 35
Gigabit Pro	2000 (2 Gbps) / 2000 (2 Gbps)

Business Tier	Speeds up to
Starter	25 Mbps down / 5 Mbps up
Business Internet 75	75 / 15
Business Internet 150	150 / 20
Business Internet 300	300 / 25
Business Internet 500	500 / 35
Business Internet 1G	1000 (1 Gbps) / 35

Comcast will utilize DOCSIS technology in building the network. DOCSIS technology is an international telecommunications standard that permits the addition of high-bandwidth data transfer to an existing cable TV system. It is employed by many cable television operators, including Comcast, to provide Internet access over an existing HFC infrastructure. The industry continues to deliver great speeds over DOCSIS 3.0, and is moving purposefully toward increased adoption of DOCSIS 3.1, which Comcast deployed in Virginia in 2018. DOCSIS 3.1 enables Comcast to bring broadband speeds of up to almost 1 Gbps to a service area.

Comcast proposes to complete the construction of the area with a hybrid fiber coaxial (“HFC”) solution, emanating from the closest facility to the project. Fiber optic cables would be constructed to the service area, commonly referred to as a serving node, where optical signals would be converted to electrical or radio frequency for distribution on the coaxial network.

Upon completion of the Comcast Broadband Project build, Comcast will be able to offer its full suite of products

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and services to residents in the proposed service area, including broadband services, voice, video, and home security. With respect to broadband service, Comcast's 1 Gigabit Internet service will use DOCSIS 3.1 technology to deliver the speeds through its HFC network. To enjoy the service, all customers need to do is install a DOCSIS 3.1 cable modem, which can be rented from Comcast or purchased on their own.

Residential Xfinity Internet and Video customers will also have access to Xfinity X1. X1 is a video platform that delivers the simplest, fastest, and most complete way for customers to access all of their entertainment on all of their screens. Features include Netflix and Amazon Prime Video access for those with a membership, YouTube access, advanced search and recommendations, and Xfinity apps for home and on the go. Xfinity X1 customers can also use the X1 Voice Remote for voice commands to change channels, search for shows, get recommendations, and more.

In addition, upon completion of this project, Comcast customers who subscribe to an Xfinity Internet package will have access to Xfinity WiFi hotspots, including those that would be newly added to the Comcast Broadband Project area, for no additional cost. Moreover, these customers would be able to access any of Comcast's hotspots throughout Virginia and across the country. Comcast has the country's largest WiFi network, including more than 19 million hotspots nationwide and over 600,000 in Virginia. Even non-subscribers of Xfinity Internet can gain WiFi hotspot access using a WiFi On Demand pass.

Comcast Small and Medium Business customers will have access to gig speeds through the newly launched "Business Internet 1 Gig" product. Comcast's "Business Internet 1 Gig" and "Business Internet 500" speed tiers are now available to business customers using the company's existing network.

With respect to broadband service, Comcast's 1 Gigabit Internet service will use DOCSIS 3.1 technology to deliver the speeds through its HFC network. Pricing for all relevant residential Xfinity Internet tiers is listed below.

Residential Tier	Xfinity Internet Service Only	With Xfinity TV or Voice Service
Performance	\$74.95	\$61.95
Performance Pro	\$89.95	\$76.95
Blast!	\$94.95	\$79.95
Extreme Pro	\$99.95	\$86.95
Gig	\$104.95	\$91.95
Gigabit Pro	\$299.95	\$299.95

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Comcast Business customers will have access to gig speeds through the “Business Internet 1 Gig” product. Comcast’s “Business Internet 1 Gig” and “Business Internet 500” speed tiers are available to business customers using the company’s existing network. Pricing for all relevant Comcast Business SMB Internet tiers is listed below.

Business Tier	Standalone Pricing
Starter	\$69.95
Business Internet 75	\$149.95
Business Internet 150	\$249.95
Business Internet 300	\$349.95
Business Internet 500	\$399.95
Business Internet 1G	\$499.95

Residents and businesses in the proposed service area will be offered broadband services of the same quality and current price as those offered in other Comcast service areas. Information for Comcast products in nearby Hanover County is attached. Comcast will not offer a separate rate applicable to only those customers within the project area included in this proposal. The customer will ultimately decide which service tier best suits their needs and preferences.

9. Provide a description of the network system design used to deliver broadband service from the network’s primary Internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Also describe specific advantages of using this technology. Provide a detailed explanation on how this information was compiled and source(s). For wireless projects, provide a propagation map including the proposed project. Label Map: Attachment 5 – Propagation Map Wireless Project

**Answer:**

Comcast has built a fiber backbone at the core of its network that stretches across the country with more than 600,000 route miles of fiber-optic and coaxial plant nationwide – using the industry’s most advanced optics/lasers and Internet Protocol (“IP”) routing technologies. Dozens of converged regional area networks interconnect to create this fiber backbone that delivers video, voice, and high-speed Internet services to tens of millions of

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customers throughout the country. IP technology ties all of this together, creating a highly scalable connectivity platform or “IP core.” Comcast has been building fiber into its networks incrementally over the past decade. In 2015, Comcast introduced Gigabit Pro, the industry’s first residential fiber-to-the-home 2 Gigabit-per-second (“Gbps”) service ever offered by an Internet service provider in the United States. In 2018, Comcast announced that it is the nation’s largest provider of gigabit broadband, providing access to nearly 58 million homes and businesses.

Comcast’s hybrid fiber coaxial (“HFC”) network model offers the most flexibility and the best economics now and into the future. The company can surgically add speed, capacity, and fiber to its networks in a smart and economically feasible way.

Comcast’s existing HFC network will deliver speeds up to 1 Gbps to residential customers. These speeds are among the fastest and most widely available and include access to the nation’s largest WiFi network of more than 19 million hotspots. Combined with the company’s recently launched Xfinity xFi platform, a new and personalized home WiFi experience, Comcast would provide its Charles City County customers with the fastest speeds, the best WiFi coverage, and ultimate WiFi control in their homes.

Comcast proposes to complete the construction of the area with a hybrid fiber coaxial solution, emanating from the closest facility to the project. Fiber optic cables would be constructed to the service area, commonly referred to as a serving node, where optical signals would be converted to electrical or radio frequency for distribution on the coaxial network.

Upon completion of the Comcast Broadband Project build, Comcast will be able to offer its full suite of products and services to residents in the proposed service area, including broadband services, voice, video, and home security. With respect to broadband service, Comcast’s 1 Gigabit Internet service will use DOCSIS 3.1 technology to deliver the speeds through its HFC network. To enjoy the service, all customers need to do is install a DOCSIS 3.1 cable modem, which can be rented from Comcast or purchased on their own.

According to the FCC’s “Eighth Measuring Broadband America: A Report on Consumer Fixed Broadband Performance in the United States,”<sup>2</sup> Comcast’s actual upload and download speeds were over 100% of what was advertised. Residents and businesses in the proposed service area will be offered broadband services of the same quality and current price as those offered in other Comcast service areas. Comcast will not offer a separate rate applicable to only those customers within the project area included in this proposal. The customer will ultimately decide which service tier best suits their needs and preferences.

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## 10. Project Readiness

What is the current state of project development (e.g. planning, preliminary engineering, identifying easements/permits, final design, etc.)? Prepare a detailed project timeline or construction schedule which identifies specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Provide any Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) (drafts are allowable), letters of support, etc. The timeline should include all activities being completed within 12 months of contract execution with DHCD. Label Attachments: Attachment 6 – Timeline/Project Management Plan; Attachment 7 – Relationship between Applicant/Co-Applicant; Attachment 8 – Letters of Support;

- i. If the partnership is formalized in a written agreement, provide a copy of that agreement.
- ii. If the partnership has not been formalized, provide a short description of the project management role, financial commitment, or other contribution to the project for the applicant, co-applicant, and any additional partners.
- iii. If applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality.

### Answer:

The Comcast Broadband Project is in the preliminary engineering phase. Final design will commence upon the award of the grant by DHCD and will continue to completion on or before the construction deadline pursuant to a final grant agreement. Comcast is confident it can complete the proposed work on time and within budget. Workflow is included in the attached project management plan.

The specific initial tasks include project engineering and right of way preparation. Comcast may need to obtain the necessary permits from the Virginia Department of Transportation (“VDOT”) to place facilities underground in the VDOT right of way and will need support from the county in ensuring that necessary power supplies are coordinated and installed with the local electric company. Charles City County is committed to assisting in obtaining these permits and power supplies expeditiously. This coordination will need to begin immediately upon notice of the grant award. Material procurement and some pre-construction work will occur during this period and will enable Comcast to proceed with actual construction as soon as VDOT issues the right of way permits.

Comcast anticipates completing the project within 12 months after contract execution between the County and DHCD.? As contemplated by the 2020 VATI guidelines, Comcast may request an extension if it encounters permitting, pole attachment, or other circumstances beyond its control which may delay the project timeline.

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Activation of all HFC plant will be completed by both in-house Comcast employees and select contract personnel. The final quality control inspection of all new infrastructure will be completed by Comcast employees to ensure all new construction meets or exceeds FCC standards. As noted above, an additional notice of service availability will be provided not later than 20 days prior to the Completion Date.

11. Matching funds: Provide a description of the matching funds the applicant and co-applicant will invest in the proposed project (VATI funding cannot exceed 80 percent of total project cost). The Funding Sources Table must be completed. Label Attachments: Attachment 9 - Documentation of Match Funding; Attachment 10 – Funding Sources Table;
  - i. For each element of matching funds in the description, indicate the type of match (e.g. cash, salary expense, or in-kind contribution).

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ii. Identify whether the applicant or co-applicant is responsible for providing each element of the proposed matching funds.

iii. Include copies of vendor quotes or documented cost estimates supporting the proposed budget.

**Answer:**

The proposed project represents a partnership between Comcast and Charles City County. Comcast, the co-applicant, upon award of the VATI grant, will be responsible for any matching funds and will provide the labor and materials to complete the provision of services to the area delineated in the attached map. Comcast will provide approximately 25% of the projected construction costs of \$3,966,012, totaling approximately \$1,322,004. Charles City County will assist in providing in-kind contributions including application analysis and preparation, coordination with the Department of Housing and Community Development, assistance with right of way permitting, assistance with community outreach for immediate connections, and participating in further concert with Comcast as the project is approved and construction begins. The value of these services will depend on the level of activity occurring as the project commences.

A breakdown of costs is attached below.

Name	Locations	Mileage	HP/Mile	Total Cost	Comcast Cost	Requested Gap Funding	VATI Gap Funding
Comcast Broadband Project	2,350	141	16.7	\$5,288,016	\$1,322,004	\$3,966,012	75%

12. Applicant and Co-Applicant: A description of the public-private partnership involved in the project. Detail the local government assistance: Local government co-applicants should demonstrate assistance to project that will lower overall cost and further assist in the timely completion of construction, including assistance with permits, rights of way, easements, and other issues that may hinder or delay timely construction and increase cost. Provide detail if this project includes additional partners such as municipal providers, middle-mile providers, or investor-owned utilities

**Answer:**

The project area for this application was selected in part because of a need for service and the absence of any contractual or legal requirements for Comcast, or any other provider, to extend service there.

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The staff of Charles CityCounty coordinated this partnership arrangement with Comcast. Comcast and Charles CityCounty will complete a formal agreement to make review of work and processing of payments as efficient as possible. Comcast anticipates submitting invoices at the mid-point of the project and at project completion.

The partners have agreed in principle on the following responsibilities:

- Charles City County intends to partner with Comcast as a co-applicant for a VATI grant to extend broadband service to unserved areas of Charles City County.
- Charles City County would complete the grant application (with Comcast's assistance); submit the completed application(s) to the Virginia DHCD; and manage the processing of work payments. Because Charles City County will be the funded applicant in the event of award, the county would timely process all VATI related Comcast invoices that applied directly to the approved work plans, design, and statement of work. Any delays in completing the work as planned would be negotiated with DHCD as partners.
- Charles CityCounty also would provide services and support for any necessary citizen engagement activities, including but not limited to: processing applications for right of way in a manner consistent with all local, state, and federal law; advocating and describing the benefits of the project to those affected; and working with Comcast and other partner agencies (e.g. VDOT) and private industry (e.g. Dominion Energy) to help coordinate construction and/or pole attachments.
- Comcast would provide accurate VATI construction plans; associated material and work invoices to match the construction plans; detailed descriptions of necessary right of way or pole attachments; and timely notice of other needs to Charles City County.
- This general agreement proceeds from the notice of VATI award to the completion of the projects.

13. Identify key individuals, including name and title, who will be responsible for the management of the project. Provide a concise description of their role and responsibilities for the project. Present this information in table format.

**Answer:**

Name	Title	Responsibility
Nathan Daugherty	Sr. Manager, Comcast Gov. Affairs	Coordination with Charles City County



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Brian Engle	Manager, Comcast Construction	Supervision of construction
Michelle Johnson	County Administrator, Charles City County	Coordination with Comcast; conduct project administration including invoice processing with DHCD

In addition to the expertise brought to the project by our partner, Comcast. Charles City County's leadership and executive administrative team consists of team members with collective grant management experience in excess of thirty years. The team consist of Ms. Michelle Johnson, County Administrator, Mrs. Abby Pemberton, Finance Director, and Ms. Rhonda L. Russell, Community Development Director/Assistant County Administrator. Additionally, the project will be supported by Comcast, our VATI 2020 grant partner.

Ms. Johnson will serve at the Chief Administrative Officer responsible for signing and monitoring the DHCD contract and providing direct oversight and management of the overall project. Ms. Johnson is the County Administrator for Charles City County. Ms. Johnson is a graduate of Virginia State University, where she earned a Bachelor of Science degree in accounting. She is also a graduate of Leadership Metro Richmond, class of 2016. Ms. Johnson worked in corporate America and state government for several years after graduating and began her public service career in Charles City County in 2003. Ms. Johnson has managed budgets in excess of \$25 million , and as many as 100 employees.

Mrs. Russell will serve as the Grant Administrator. She is primarily responsible for providing assistance in the areas of overall grant administration to include record keeping, preparation of required reports to the VDHCD in conformance with grant requirements, and coordinating management team meetings. Ms. Russell has extensive public service and management experience amassed over a twenty year local government career where she has managed as many as thirteen employees, departmental budgets in excess of \$500,000.00, written, received and implemented multiple grant awards for housing rehabilitation, broadband and sewer infrastructure and lead abatement projects, totaling more than \$20 million. Additionally, Ms. Russell's noteworthy academic preparation includes an undergraduate Planning Degree, Va. Tech, Blacksburg, Virginia, a Master of Public Administration degree, Old Dominion University, Norfolk, Virginia, and a terminal degree in Organizational Leadership with a concentration in Human Services Administration, Nova Southeastern University, Fort Lauderdale, Florida.

Mrs. Abby Pemberton will serve as the project's Financial Manager. In this capacity she will oversee overall implementation of the project to include signing and approving any financial reports and documents related to the project including request for contract extensions, budget revisions, annual reports, draw down forms and close-out forms. Mrs. Pemberton is an alumnus of the College of William and Mary and holds degrees in accounting and government. Mrs. Pemberton has extensive experience in both the private and public sector.

# Application to DHCD Submitted through CAMS

CHARLES CITY COUNTY GOVERNMENT

Virginia Telecommunications Initiative 2020

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## 14. Project Budget and Cost Appropriateness

Applicants shall provide a detailed budget as to how the grant funds will be utilized, including an itemization of equipment and construction costs and a justification of proposed expenses. Expenses should be substantiated by clear cost estimates. Label Attachment: Attachment 11 – Derivation of Costs; Attachment 12 - Documentation of Supporting Costs; Attachment 13 – Supporting Documentation of Cost Estimates.

### Answer:

Please refer to attachments 11 through 13 for Project Budget and Cost Appropriateness information.

15. The cost benefit index is comprised of three factors: (i) state share for the total project cost, (ii) state cost per unit passed, and (iii) the internet speed. From these statistics, individual cost benefit scores are calculated. Finally, the three component scores are averaged together and converted to a 30-point scale to form a composite score. Please provide the following three pieces of information:

- a. Total State funding requested / Total Project cost
- b. Number of serviceable units
- c. Highest residential speed available

### Answer:

a. Total State funding requested: \$3,966,012 / Total project cost \$5,288,016, or 75% of total project cost

b. Number of serviceable units: 2,350

c. Highest residential speed available: 1Gig

This index will be ultimately be determined by DHCD.

16. A brief description of applicant and co-applicant's history or experience with managing grants and constructing broadband communication facilities in the Commonwealth of Virginia and elsewhere.

### Answer:

As noted previously in this application, Charles City County recently received two economic development grants

# Application to DHCD Submitted through CAMS

CHARLES CITY COUNTY GOVERNMENT

Virginia Telecommunications Initiative 2020

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from DHCD. The first was a Community Development Block Grant (“CDBG”) Planning Grant in 2013. It was followed by a Community Development Economic Development Fund grant the following year. The County’s current leadership and executive administrative team consists of team members with collective grant management experience in excess of thirty years.

Comcast has significant experience constructing broadband communications facilities. It is a leading communications provider in Virginia, offering video, high-speed Internet, home security, and phone services to residential customers under the Xfinity brand and also providing services to businesses through its Comcast Business suite of products. Comcast has invested in technology to build an advanced network that delivers among the fastest broadband speeds, and brings customers personalized video, communications, and home management offerings. Comcast has invested billions of dollars to create a network across the U.S. that makes broadband widely available, as part of its commitment to provide superior services to its customers.

Since 2011, Comcast made more than \$1.8 billion in technology and infrastructure investments in Virginia to offer reliably fast speeds even during peak use periods. The company has invested significant resources in both local and national Network Operations Centers (“XOC”) to ensure continued proactive monitoring of network health, increased its Internet speeds for customers 17 times in 18 years, and doubled the capacity of its broadband network every 18-24 months.

In Virginia, Comcast employs over 1,900 people. It invests more than \$216 million annually in payroll, benefits, and training for its Virginia workforce. The company maintains a large, locally based engineering technical operations team that works around the clock to maintain network reliability and to directly support the company’s business and residential customers. For many decades, Comcast, through its Beltway Region, has served over 140 communities in Virginia. Many of these communities are very rural in nature.

Comcast has experience partnering with public agencies to deploy broadband infrastructure in unserved areas. Comcast was awarded two Virginia Telecommunications Initiative grants in 2018. Both construction projects are now complete with Internet service offered to residences and businesses throughout the project footprints. Comcast was also awarded a VATI grant in 2019. Comcast is on schedule to fulfill its grant obligations for this grant, and planning and construction for the project is ongoing.

In 2018 Comcast also earned a Last Mile Broadband grant from the Virginia Tobacco Region Revitalization Commission to provide broadband access to nearly 7,000 homes and businesses. It is currently planning to complete construction in 2020, approximately 1.5 years ahead of schedule.

In Massachusetts, Comcast was awarded a grant of \$4,000,000 from the Massachusetts Technology Collaborative (“Mass Tech”) for construction of line extensions to areas in nine towns whose costs to construct exceeded

# Application to DHCD Submitted through CAMS

CHARLES CITY COUNTY GOVERNMENT

Virginia Telecommunications Initiative 2020

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Comcast's economic standards. Comcast completed the project on time, on budget, and reached 20% more homes than the 1,000 originally anticipated. Comcast was also awarded a grant of \$805,800 by Mass Tech for construction of approximately 27 miles of line extensions in Montgomery, Massachusetts, a town which is currently unserved.

In 2013 and 2014, Comcast received two grants from the Vermont Telecommunication Authority ("VTA") totaling \$336,558 to provide service to areas that were economically unfeasible for construction. In 2015 and 2017, the Vermont Department of Public Service ("DPS") twice awarded Comcast funds from its Connectivity Initiative grant totaling \$359,850. Comcast has either fulfilled or is on schedule to fulfill its grant obligations to the VTA and DPS.

## 17. Commonwealth Priorities

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. Please describe if the project fits into a larger locality or regional universal broadband plan.

### Answer:

The Comcast Broadband Project fits into Charles City County's local broadband plan. It will vastly expand Internet access to Charles City County residents and businesses. An expansion of access to this degree could be transformational for the County.

Please see the attached Charles City County Recommendations, a 2014 study commissioned by the County through its 2013 CDBG Planning Grant.

The proposed grant project is also aligned with priorities identified by the Honorable Governor Northam to connect rural Virginia to broadband opportunities and thereby eliminate disparities in education, health and economic outcomes experienced in rural and more urban areas of the Commonwealth.

## 18. Additional Information

Any other equitable factor that the applicant desires to include. Applicants are limited to four additional attachments. Label Additional Attachments as:

- a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 15 – Copy of Public Notice

# Application to DHCD Submitted through CAMS

CHARLES CITY COUNTY GOVERNMENT

Virginia Telecommunications Initiative 2020

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c. Attachment 16 – XXXXXXXX

d. Attachment 17 – XXXXXXXX

e. Attachment 18 – XXXXXXXX

f. Attachment 19 – XXXXXXXX

**Answer:**

a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent

b. Attachment 15 – Copy of Public Notice

c. Attachment 16 – FCC 477 Data by Census Block\_2017-12

d. Attachment 17 – Question 18 – Broadband survey responses

e. Attachment 18 – ComcastRateCare\_Hanover

f. Attachment 19 – Charles City County Broadband Plan

g. Attachment 20 – Community Anchor Institutions

**Attachments:**

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMapCharlesCityCounty93201980210.pdf

# Application to DHCD Submitted through CAMS

CHARLES CITY COUNTY GOVERNMENT

Virginia Telecommunications Initiative 2020

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Map(s) or schematic of existing broadband providers (inventory of existing assets)

Attachment2MapOfExistingProvidersCCC93201980451.pdf

Documentation that proposed project area is not designated for Connect America Funding (CAF)

Attachment3DocumentationonCAFFundingAreaCHARLESCITY93201980500.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment493201984139.zip

Propagation Map if Wireless Project

Attachment5PropagationMapWirelessProjectNotApplicable93201980517.pdf

Project Management Plan

Attachment6TimelineProjectManagementPlanCharlesCity202093201980528.pdf

Documentation of relationship between applicant and co-applicant (formal or informal)

Attachment7DocumentationOfRelationshipCharlesCityCounty93201980537.pdf

Letters of Support

Attachment8LettersOfSupportCharlesCity201993201981143.pdf

Documentation for in-kind contributions, including value(s)

Attachment9DocumentationOfInKindContributionsAndValueCharlesCity201993201980607.pdf

Funding Sources Table

Attachment10FundingSourcesTableCharlesCity93201980626.pdf

Derivation of Cost (Project Budget)

Attachment11DerivationofCostsWorksheetCharlesCityCounty201993201980635.pdf

Documentation supporting project costs (i.e. vendor quotes)

Attachment12DocumentationOfSupportingProjectCostsCHARLESCITY201993201980647.pdf

# Application to DHCD Submitted through CAMS

CHARLES CITY COUNTY GOVERNMENT

Virginia Telecommunications Initiative 2020

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Supporting documentation for costs estimates

Attachment13SupportingDocumentationOfCostEstimatesCharlesCity201993201980657.pdf

Two most recent Form 477 submitted to FCC

Attachment14Form477submittedbyComcast2019CHARLESCITY93201980706.pdf

Copy of Public Notice

Attachment15PublicNoticeCharlesCityCounty93201980713.pdf

Optional

Question16and17FCCDataandCommunitySurveyData93201983545.zip

Optional

Attachment18Question18ComcastRateCardHanover93201983600.pdf

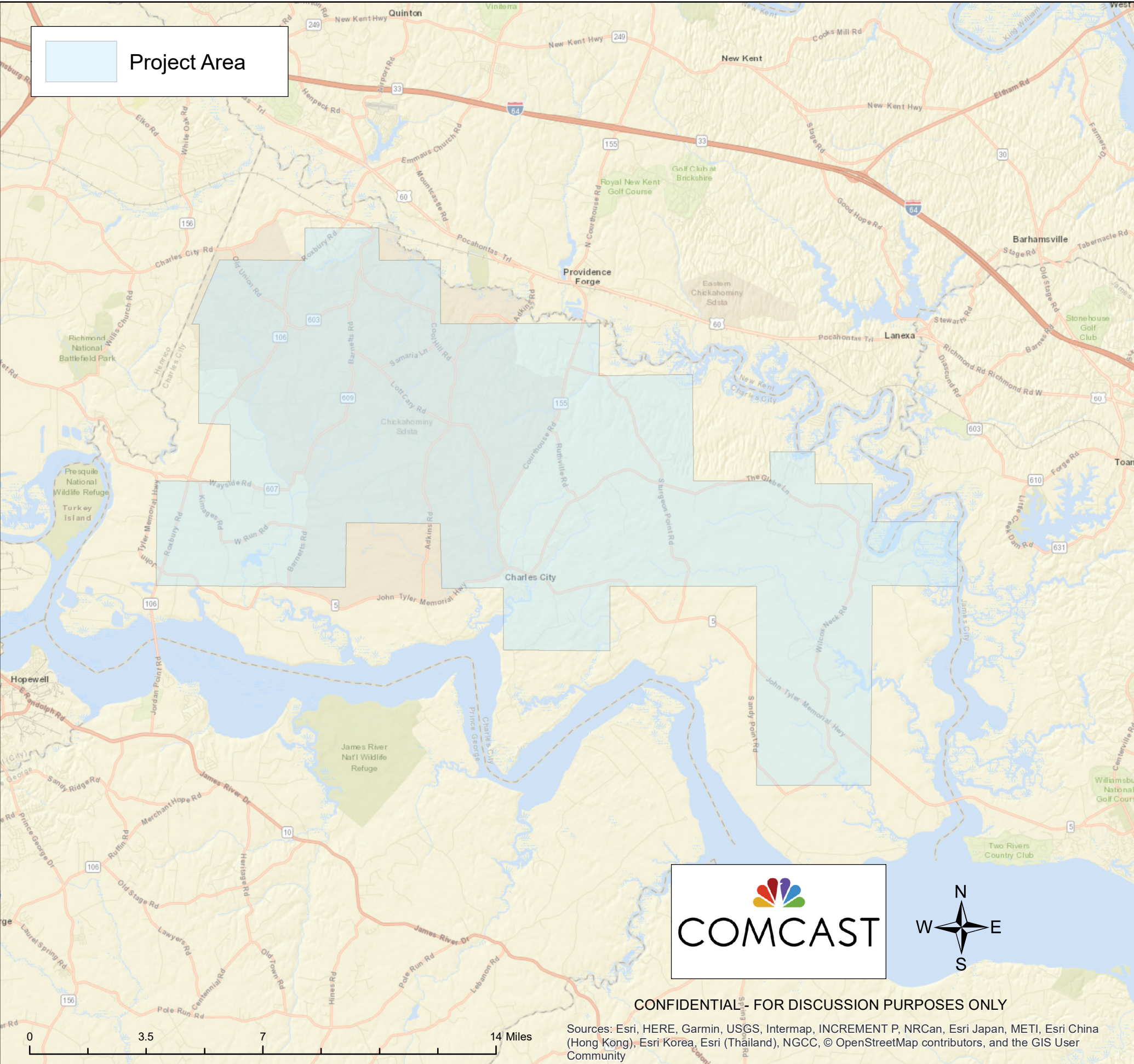
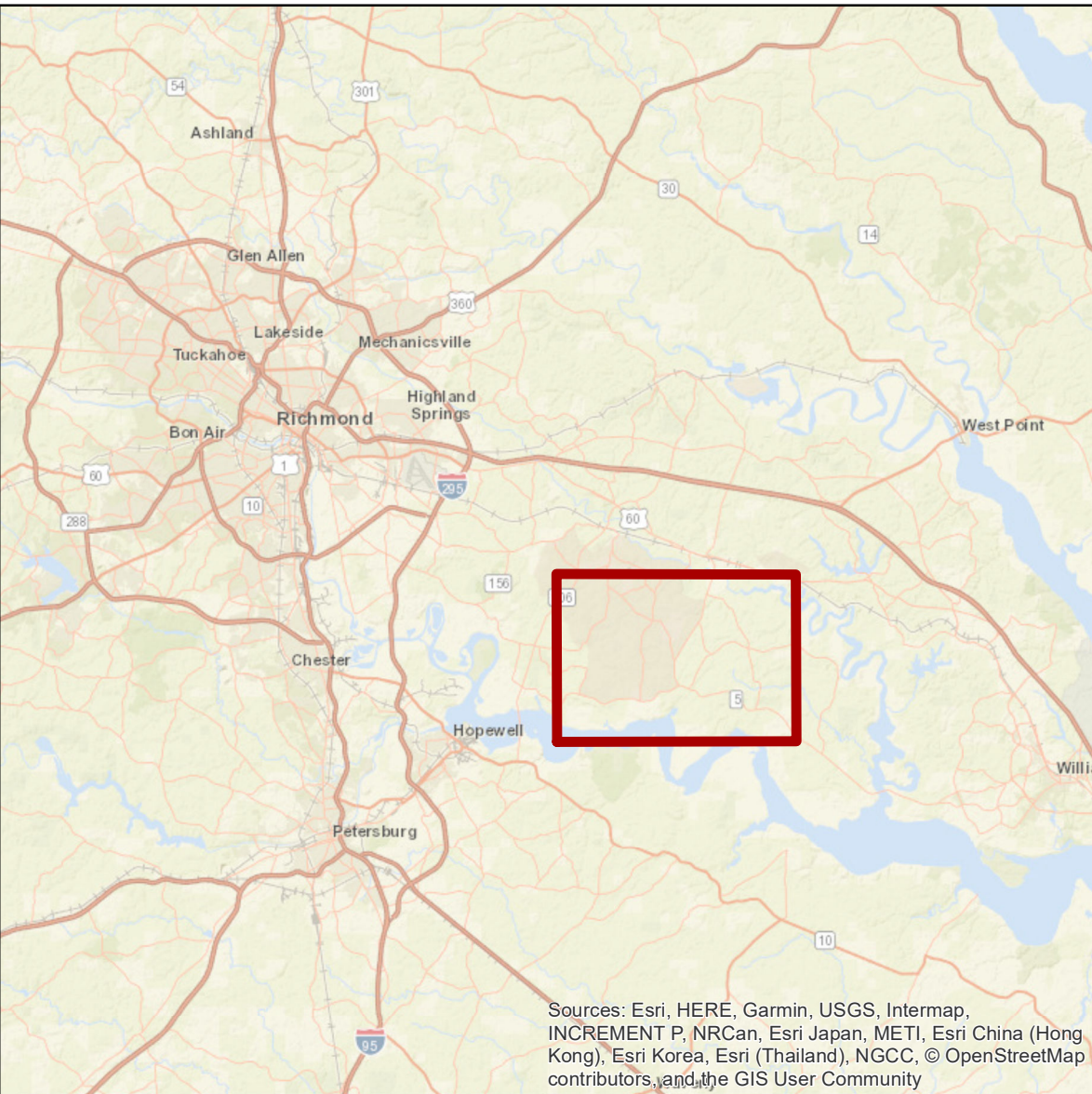
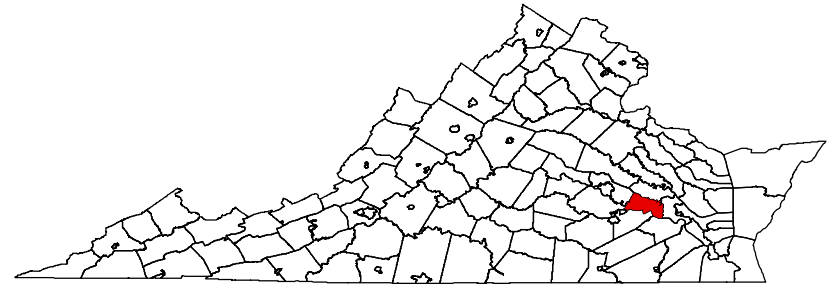
Optional

Question19CharlesCityCountyBroadbandPlan93201983625.pdf

Optional

Attachment20CommunityAnchorInstitutions93201983634.pdf

# CHARLES CITY COUNTY - COMCAST BROADBAND PROJECT

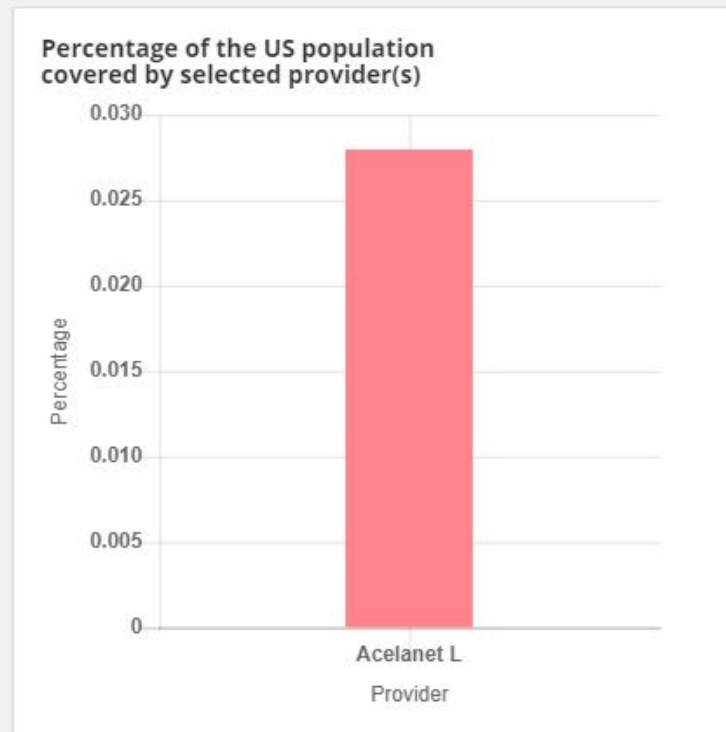
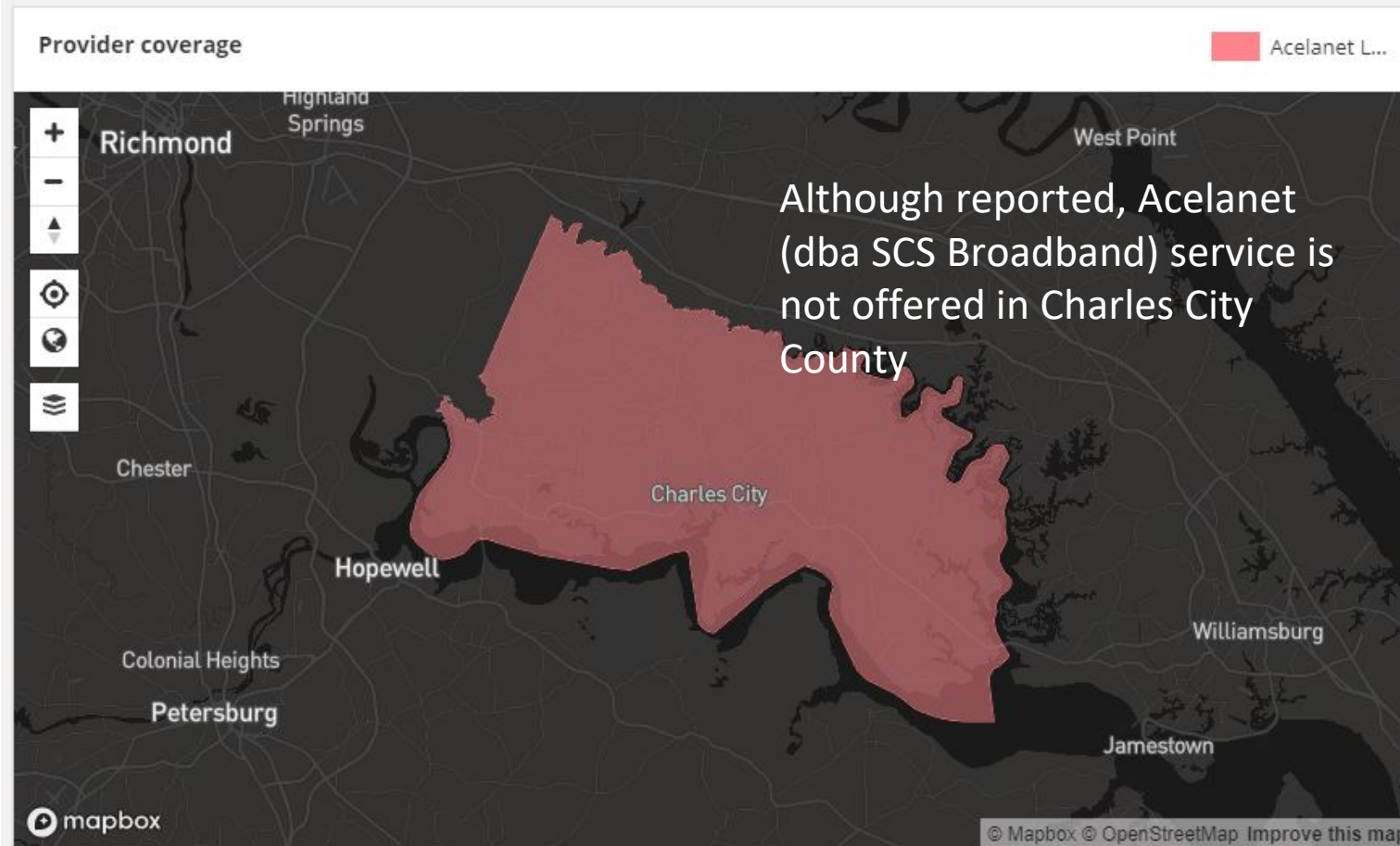




# Map of Existing Providers - Acelanet

Provider coverage overlap and population coverage

Date Dec. 2017 (latest public release)

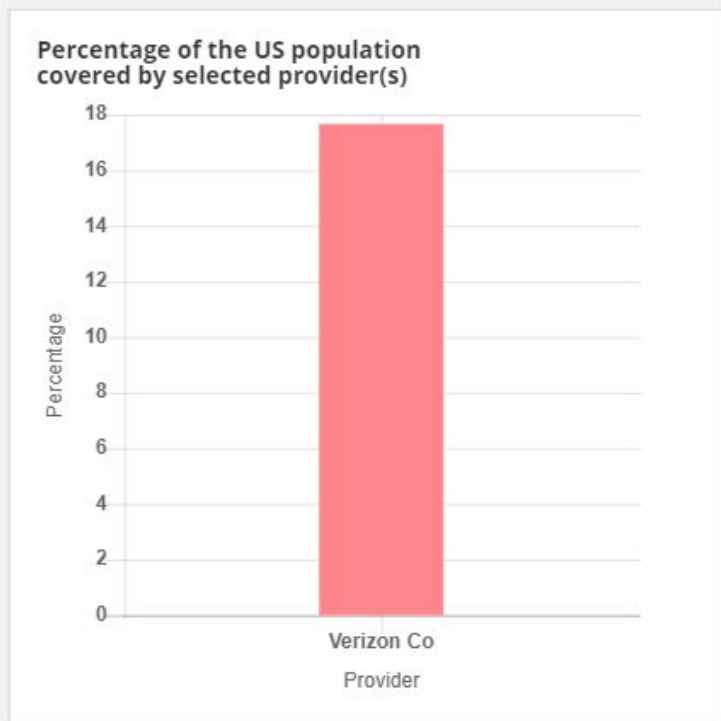
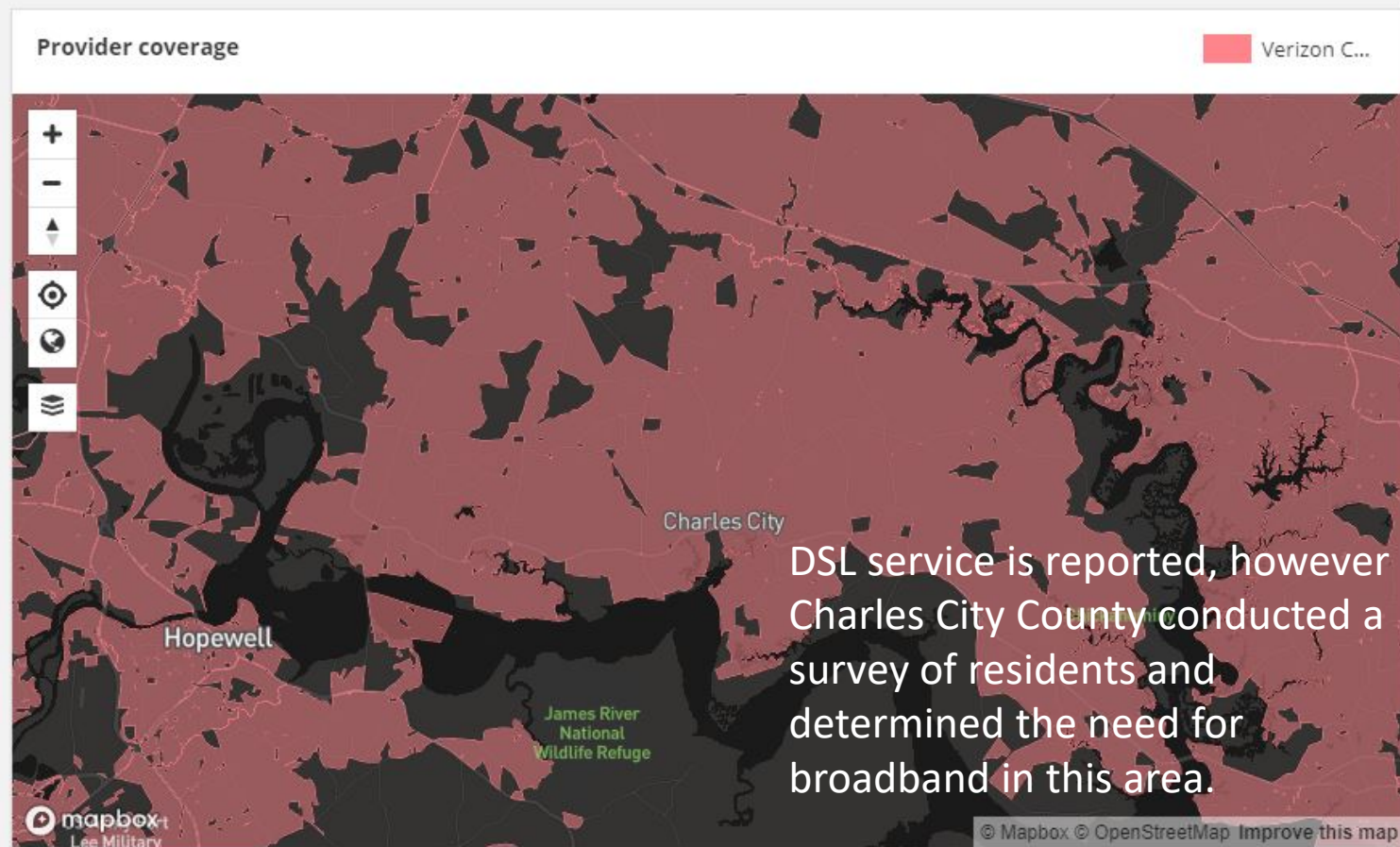


Source: <https://broadbandmap.fcc.gov/#/provider-detail?version=dec2017&direction=d&hoconums=230044> as of 9/1/19

# Map of Existing Providers - Verizon

Provider coverage overlap and population coverage

Date Dec. 2017 (latest public release)

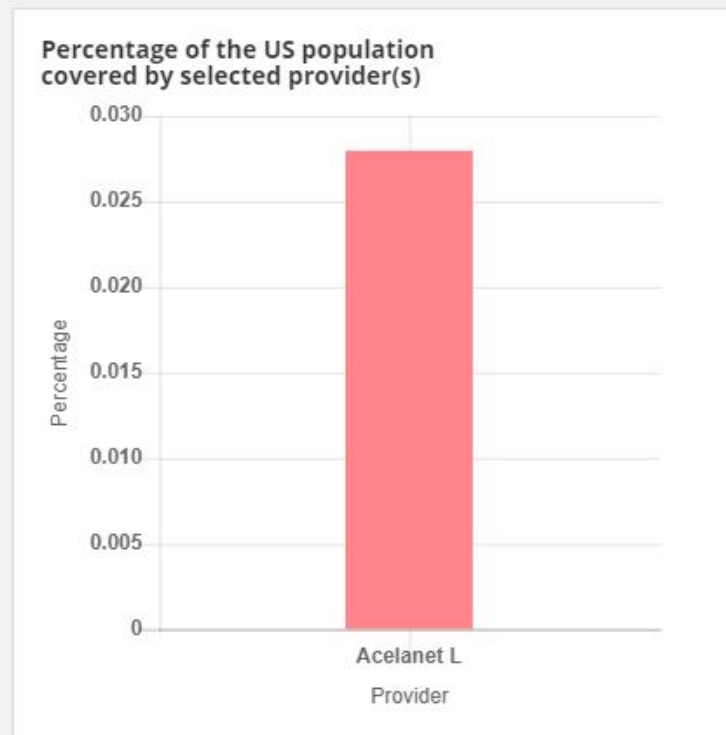
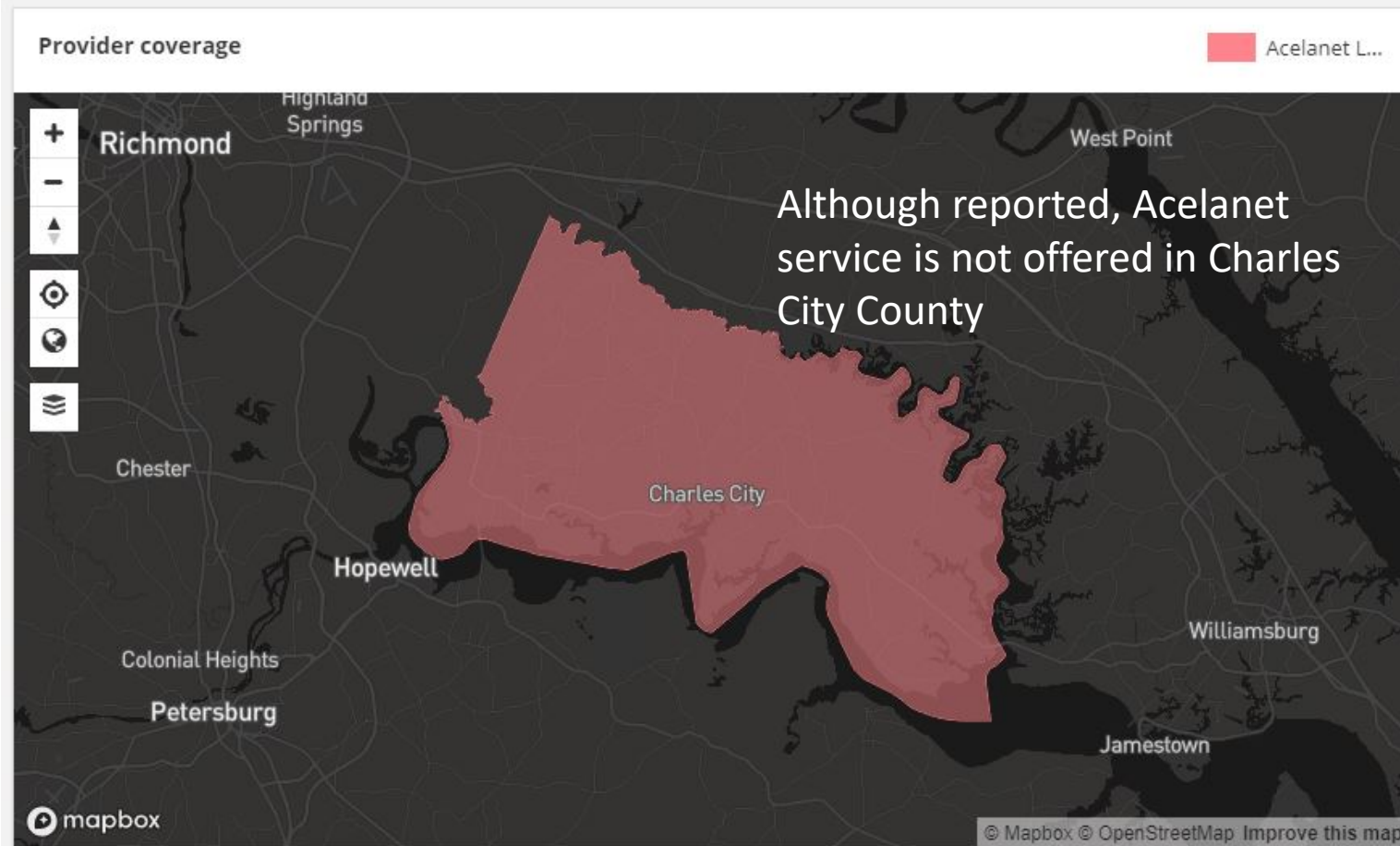


Source: <https://broadbandmap.fcc.gov/#/provider-detail?version=dec2017&direction=d&hoconums=131425> as of 9/1/19

# Map of Existing Providers - Acelanet

## Provider coverage overlap and population coverage

Date Dec. 2017 (latest public release)

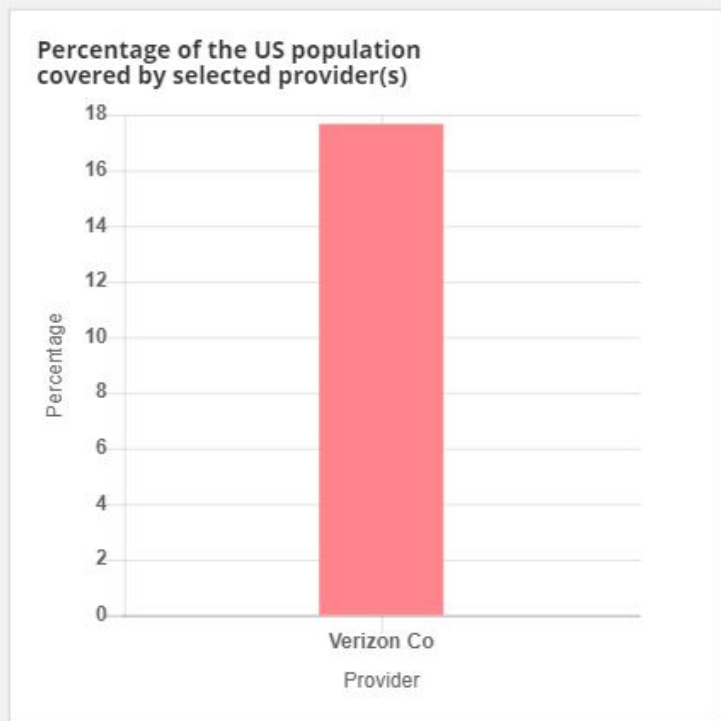
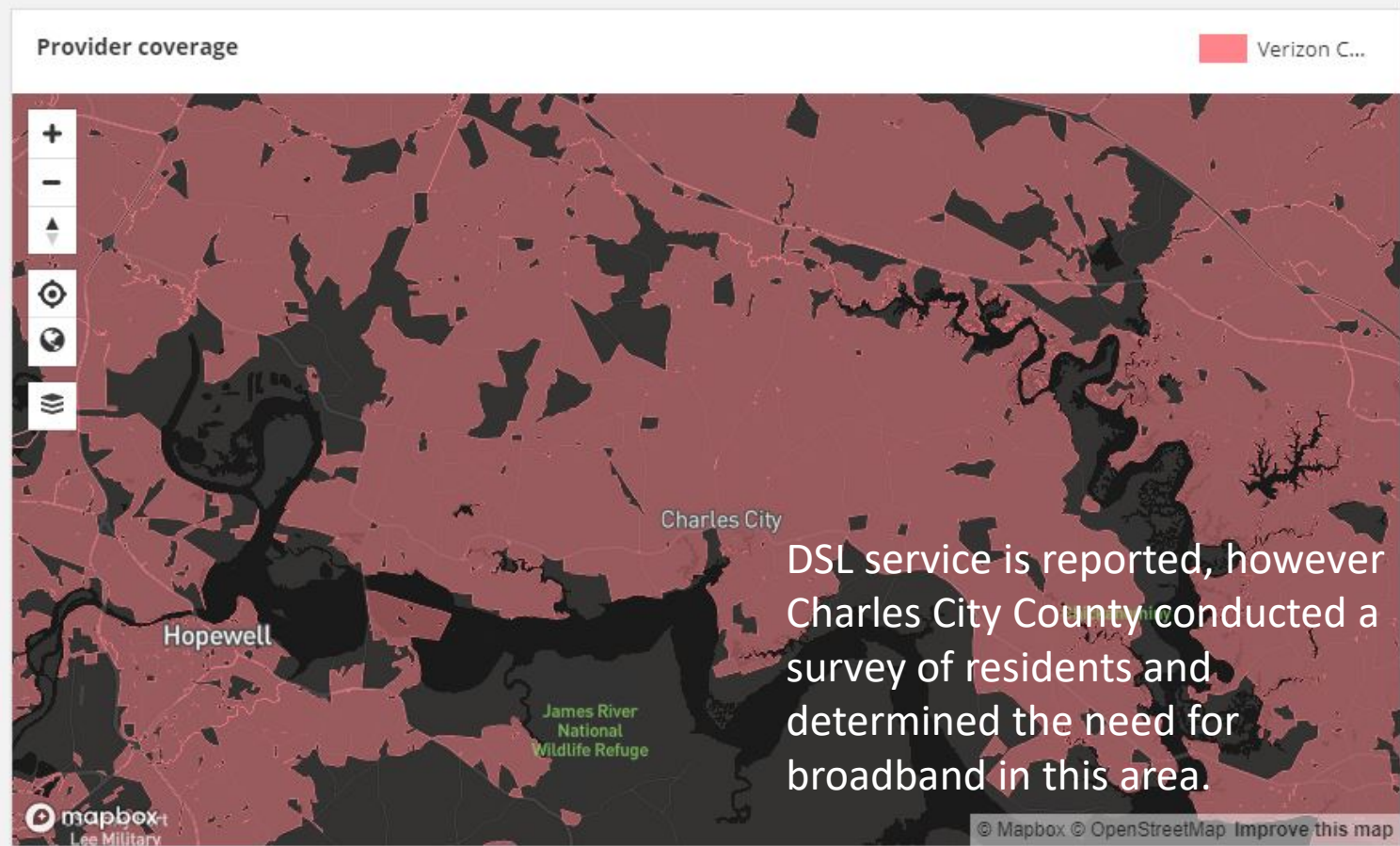


Source: <https://broadbandmap.fcc.gov/#/provider-detail?version=dec2017&direction=d&hoconums=230044> as of 9/1/19

# Map of Existing Providers - Verizon



Provider coverage overlap and population coverage

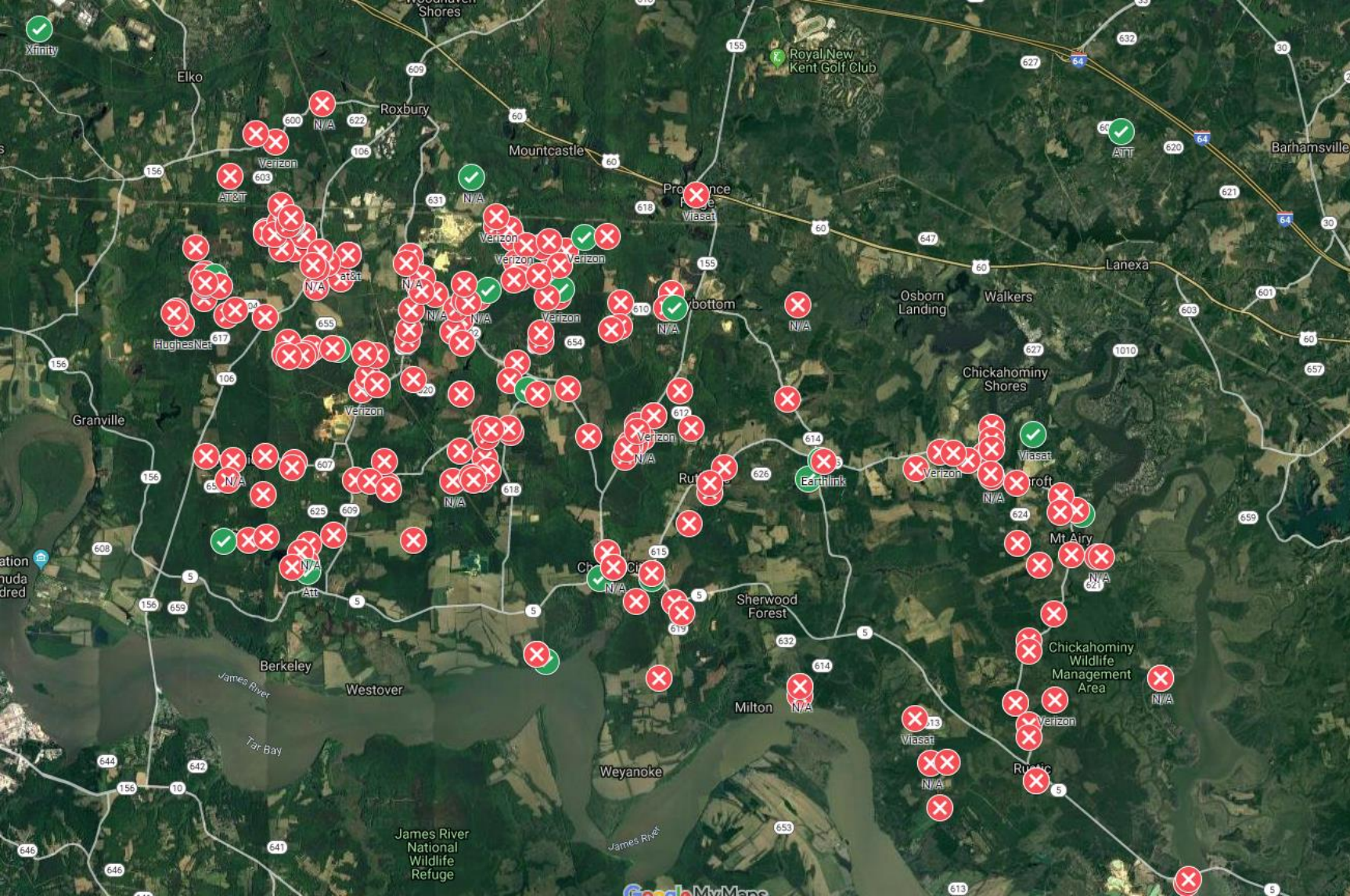
Date Dec. 2017 (latest public release)



Source: <https://broadbandmap.fcc.gov/#/provider-detail?version=dec2017&direction=d&hoconums=131425> as of 9/1/19

# Community Survey of Broadband Satisfaction

-  : Service reported as not meeting customer needs
-  : Service reported as fully satisfactory





September 3, 2019

ATTACHMENT 5. Propagation Map if Wireless Project

Attachment 5 is not applicable to this grant application.



September 3, 2019

ATTACHMENT 7. Documentation of Relationship Between Applicant and Co-Applicant (formal or informal)

The staff of Charles City County coordinated this partnership arrangement with Comcast. Comcast and Charles City County will complete a formal agreement to make review of work and processing of payments as efficient as possible. Comcast anticipates submitting invoices at the mid-point of the project and at project completion.

The partners have agreed in principle on the following responsibilities:

- *Charles City County intends to partner with Comcast as a co-applicant for a VATI grant to extend broadband service to unserved areas of Charles City County.*
- *Charles City County would complete the grant application (with Comcast's assistance); submit the completed application(s) to the Virginia DHCD; and manage the processing of work payments. Because Charles City County will be the funded applicant in the event of award, the county would timely process all VATI related Comcast invoices that applied directly to the approved work plans, design, and statement of work. Any delays in completing the work as planned would be negotiated with DHCD as partners.*
- *Charles City County also would provide services and support for any necessary citizen engagement activities, including but not limited to: processing applications for right of way in a manner consistent with all local, state, and federal law; advocating and describing the benefits of the project to those affected; and working with Comcast and other partner agencies (e.g. VDOT) and private industry (e.g. Dominion Energy) to help coordinate construction and/or pole attachments.*
- *Comcast would provide accurate VATI construction plans; associated material and work invoices to match the construction plans; detailed descriptions of necessary right of way or pole attachments; and timely notice of other needs to Charles City County.*
- *This general agreement proceeds from the notice of VATI award to the completion of the projects.*





COMMONWEALTH OF VIRGINIA

**HOUSE OF DELEGATES**

RICHMOND

**LAMONT BAGBY**  
**Pocahontas Building**  
**Post Office Box 406**  
**Richmond, Virginia 23218**

SEVENTY-FOURTH DISTRICT

COMMITTEE ASSIGNMENTS:  
EDUCATION  
TRANSPORTATION  
COMMERCE AND LABOR  
RULES

August 30, 2019

Erik Johnston, Director  
Department of Housing and Community Development  
Main Street Centre  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

Dear Director Johnston,

I am writing to express my strong support for the Virginia Telecommunication Initiative Broadband Grant for Charles City County. Through this partnership with Comcast, this grant would increase access to broadband by upgrading and expanding its network. This increased access would positively affect over 2,300 address within the proposed project area.

The need for better a better broadband network is so great in a budding community such as Charles City County. Further access to a better broadband network would not only better the local economy by allowing current and potential business to successfully compete, but it will also benefit the current and potential residents by providing them with a fast and secure network to meet all their entertainment and social needs.

I support the proposed Virginia Telecommunication Initiative Broadband Grant and request that the Department of Housing and Community Development will approve it so that the residents of Charles City County can benefit from an improved broadband network.

Sincerely,

A handwritten signature in blue ink, appearing to read "L Bagby".

Lamont Bagby  
Member, 74th District  
Virginia House of Delegates



COMMONWEALTH OF VIRGINIA

HOUSE OF DELEGATES  
RICHMOND

**DELORES L. MCQUINN**

POST OFFICE BOX 406  
RICHMOND, VIRGINIA 23218

SEVENTIETH DISTRICT

COMMITTEE ASSIGNMENTS:  
GENERAL LAWS  
TRANSPORTATION  
APPROPRIATIONS

To Whom It May Concern:

I am writing to convey my strong support for the Virginia Telecommunication Initiative Broadband Grant for Charles City County. This grant award would enable a proposed partnership with Comcast, thereby widely increasing network access to broadband. The increased access would positively affect over 2,300 addresses within the proposed project area.

The need for a reliable broadband network is so great in a community such as Charles City County. Further access to a better broadband network would not only strengthen the local economy by allowing current and potential business to successfully compete, but it will also benefit the current and potential residents by providing them with a fast and secure network to stay connected in today's modern society.

I enthusiastically support the proposed Virginia Telecommunication Initiative Broadband Grant application for Charles City County, and request that the Department of Housing and Community Development strongly consider approving the request, for the benefit of the residents and business owners who will directly benefit from an improved broadband network.

Thank you,

A handwritten signature in black ink, appearing to read "D. McQuinn".

Delegate Delores L. McQuinn  
Virginia House of Delegates  
70<sup>th</sup> District

SCHOOL BOARD  
Helen Payne-Jones, Chair  
Herbert J. Johnson, Vice Chair  
E. Preston Adkins  
Dr. Steven Fuhrmann  
Martha Harris



David W. Gaston, Ed.D.  
Superintendent

Phone: (804) 652-4612  
Fax: (804) 829-2363  
www.ccps.net

September 2, 2019

Tamarah Holmes, Ph.D.  
Associate Director of Community Development Policy  
Virginia Department of Housing and Community Development (VDHCD)  
600 East Main Street, Suite 300  
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2019 – Charles City County Broadband Expansion

Dear Dr. Holmes:

On behalf of Charles City County Public Schools (CCPS), I am writing to convey our School Board and Administrations' enthusiastic support of the application referenced above as submitted by Charles City County.

Our school division serves approximately 640 students in grades PK-12. The vision of our school division is to be a model of rural education in our Commonwealth. Our schools have been fully accredited by the Virginia Department of Education for three consecutive years, offering our students a variety of opportunities and programs ranging from Junior Army ROTC to business certifications and magnet school experiences. Through a one-to-one initiative that was initiated and implemented three years ago, every student in grades 3-12 has a laptop that connects them to their learning opportunities. All of these successes are in spite of the fact that 62% of our students qualify for free and/or reduced lunch under federal guidelines, and upwards of 60% of student households do not have access to any reliable internet service. Our schools remain one of the few oases within our County where students can enjoy reliable internet service for equitable access to learning experiences, information and research on a daily basis.

Implementing a one-to-one initiative required a creative workaround for our schools that produced a partnership with Microsoft to use One Drive/One Note to provide our students with equitable access to assignments and information for their daily learning experiences. It was found that even providing each individual student with a hot spot would not have allowed for guaranteed access to internet service at home. Through our use of One-Drive and One-Note, our teachers create portals and load their assignments, learning materials and homework to their sites every evening. When our students enter their school and power their laptops, the units immediately and automatically upload every assignment and reading for each class. At the end of each school day, a final upload guarantees that each student will at least leave their classroom with every assignment loaded in a fillable PDF format, as well as readings and support materials, to enable them to complete their work.

Unfortunately, the sobering fact remains that the large majority of our children have to wait for the 6.5 hours every day that they are in school to be able to experience what every one of their peers in the metro Richmond area are able to experience 24 hours 7 days per week as part of their learning and life experiences. Simply put, the VATI grant represents our locality's opportunity to be able to provide every citizen—and every learner – with the chance to access fast, reliable internet service at an affordable price. In an age where equity in learning resources is a vital and important focal area for learning and student success, this grant would allow our students to have complete and unfettered access to learning resources and not be limited only to the information that is uploaded for them each day because they do not have full access to online resources for research, writing and general educational experiences.

Interestingly, as part of our community outreach and engagement services this year in conjunction with large community support from our faith houses and business partnerships, CCPS opened our Community Den, a section

of our high school facility dedicated to serving the basic needs of our families and students who are in need. The Den provides everything to families from clothing and dry goods to basic toiletry items and reading books for our children. Perhaps one of the most widely used services, however, is access to the internet for our families. We have dedicated desktop computers with internet connections that are widely used by our citizens in the Den for everything from completing and filing their state and federal income taxes to completing employment applications and researching a variety of topics that provide them with information and education. On any day that the Den – which is staffed completely by school division administration, teachers and community volunteers – we see 15- 20 families visiting this facility to take advantage of its services. Obviously, having reliable internet service available for our families through a VATI grant would allow the schools to continue to assist our students and families with digital citizenship classes and support; however, given the present situation with a widespread lack of reliable service, the schools become a major service hub for access for our community.

I thank you for your consideration and careful review of Charles City County's grant application. It represents a true investment in our locality and a specific opportunity for our students to expand their learning beyond the four walls of their schools. It will also allow their families who largely have no internet access to also benefit from connectivity, allowing them to perform many of the simple daily operations and tasks that every other family in our region enjoys without having the school division and local government provide them with such access as a the major technology hub across our locality.

Sincerely,

A handwritten signature in blue ink, appearing to read "DW Gaston", with a long horizontal line extending to the right.

David W. Gaston, Ed.D.  
Division Superintendent

Cc:

Helen Payne-Jones, Chair, CCPS School Board  
Herbert Johnson, Vice- Chair, CCPS School Board  
Michelle Johnson, County Administrator, Charles City County

5806 Mooretown Road  
Williamsburg, VA 23188  
757-565-1090 Phone  
757-564-9120 Fax



P.O. Drawer BM  
Williamsburg, VA 23187  
www.hendersoninc.com  
2701-004849 "A"

August 27, 2019

Reference: Letter of Support

To the Virginia Department of Housing and Community Development (DHCD):

We are preparing this Letter of Support for Charles City County as they apply for the grant concerning the Virginia Telecommunication Initiative (VATI). We feel this grant would be very useful for citizens and business owners of Charles City County. The opportunity to extend broadband services in Charles City County would greatly help growth in our beautiful community.

If I can be of any further assistance, please contact me.

Respectfully,

Greg Thompson  
Material Resource Manager  
Henderson Inc./Sturgeon Point Materials  
(757) 879-5564  
greg@hendersoninc.com



# Highly Effective Services, Inc.

Yvonne D. Smith-Jones, President  
15500 John Tyler Memorial Highway  
Charles City, Virginia 23030  
[Drysi12@gmail.com](mailto:Drysi12@gmail.com)  
804-301-5884 or 804-829-6312  
[Http://highlyeffectiveservices.weebly.com](http://highlyeffectiveservices.weebly.com)

Business Manager – Cynthia Bradby  
Resource Manager- LaVerne Smith

May 31, 2019

Charles City County Government  
10900 Courthouse Road  
Charles City, Virginia 23030

As a SWAN certified professional development business located in Charles City County providing opportunities for leadership development for Prek-16 and STEM services, it is imperative to deliver these services as online, interactive embedded professional development modules for today's school based leaders and staff. As the county updates its overall profile based on the Comprehensive Plan, it is crucial to have an infrastructure based on efficient and effective delivery of technical services.

The need is urgent as businesses, government and schools find it demanding to deliver services to its citizens. As well as, overall safety is being compromised because Emergency Services cannot receive the necessary signals in a timely manner to locate citizens in need. The needs increase every year as the county struggles to keep up with innovations deemed to provide efficiency and effectiveness deliverables to its residents. Thus, the gap for quality services continues to expand and grow exponentially.

As described, the needs are tremendous and vital to sustain working and school age families in this rural, rustic locality. Tourists, bikers, and citizens enjoy the environmental attributes of the county therefore; given an opportunity, the county would benefit from extended broadband services. Meanwhile, the Virginia Telecommunication Initiative grant would support efforts in delivering services to unserved areas in the county.

Highly Effective Services, Incorporation supports Charles City County in applying for a grant with the Virginia Department of Housing and Community Development to extend Broadband services to the locality.

Sincerely,

Yvonne D. Smith-Jones  
CEO Highly Effective Services, Inc.  
Charles City, Virginia 23030



**L.G. Scott Landscaping and Tree Service**

12700 Sterling Heights Lane  
Providence Forge, VA 23140

Office: (804) 966-2706

Fax: (888) 908-3172

[www.lgscottsolutions.com](http://www.lgscottsolutions.com)



August 26, 2019

To Whom It May Concern:

We operate a landscaping business in Charles City County. The lack of reliable and fast internet greatly impacts our business. The software that we use to run our business is in the cloud. We literally cannot schedule or send estimates or invoices when the internet goes down. We currently use a hotspot, and it is very unreliable.

Please do whatever you can to help our county provide reliable and fast internet for the local businesses.

Respectfully,

A handwritten signature in black ink that reads "Luke G. Scott". The signature is written in a cursive style with a long horizontal line extending from the end.

Luke G. Scott

President

L. G. Scott Landscaping and Tree Service



Friday, August 30, 2019

From:  
Lil Doc's Appliance Repair LLC  
19200 The Glebe Lane  
Charles City, VA 23030

To:  
Virginia Department of Housing and Community Development

Re:  
2020 Virginia Telecommunication Initiative (VATI) grant


To whom it may concern:

As small business owners in Charles City County, Virginia, we support the county's decision to apply for this grant. Our business relies heavily on internet. We run an appliance repair company out of our home. Customers contact us through cell phone and email. We bill various companies online when we complete repairs for them.

We are currently using a Verizon air card to access a weak, pathetic internet signal through the cellphone towers. We do not have any signal to access WIFI. Some days, we cannot get online at all. Many times, it has been necessary to go to someone else's house in another county because our internet speed is too slow and unreliable to be trusted during important tasks.

Better access to the internet would benefit the county overall. More importantly to us, the internet would improve our business and livelihood.

Sincerely,

  
Dawn Wine  
Perry & Dawn Wine





Via electronic mail to [dwilliams@co.charles-city.va.us](mailto:dwilliams@co.charles-city.va.us)

Friday, August 30, 2019  
1 of 2 pages

Denise Williams  
Community Development Department  
Charles City County  
10900 Courthouse Road, Charles City, VA 23030

Re: 2020 Virginia Telecommunication Initiative (VATI)

Dear Madam,

I am very strongly in favor of the County pursuing VATI to bring much needed broadband to our family and community businesses. We are having to run our family's business off of a limited mobile hotspot at lower bandwidths than the business needs for marketing, educational and security needs.



---

Shirley Plantation, L.L.C.

804 357-3913 cell

[charles@remadeland.com](mailto:charles@remadeland.com)

501 Shirley Plantation, Charles City County, Virginia 23030 [www.ShirleyPlantation.com](http://www.ShirleyPlantation.com)

Our tourism business depends upon school and other groups, which are facing limited budgets. Our ability to hold video classes and on-line education sessions is limited by the lack of bandwidth. We serve many schools across the Commonwealth and the Nation but are limited by the data we can transmit and the types of classes we can conduct.

In short, we are not nearly as effective putting educational data through our current "straw" when the relative "fire-hose" of broadband is the successful standard for better online education programming. With broadband capability, we can develop and expand to a better and more complete suite of services to our education and institutional clients in the Commonwealth and across the U.S.

Very truly,



Charles H. Carter, III  
Manager/Member



Via electronic mail to [dwilliams@co.charles-city.va.us](mailto:dwilliams@co.charles-city.va.us)

Friday, August 30, 2019

Charles City County Community Development Department  
10900 Courthouse Road, Charles City, VA 23030

Re: 2020 Virginia Telecommunication Initiative (VATI)

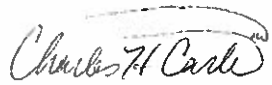
Dear Madam,

I am very strongly in favor of the County pursuing VATI to bring much needed broadband to our family and community businesses. In my business, just this year, I suffered a \$80,000 loss as damage to our marine facility was not video recorded.

The unavailability of cost of adequate broadband to run the video monitoring prevented determination of the culprits according to the U.S. Coast Guard. We had the vessel schedules and could track the vessels at the dock but not the time of the incident (indicating the offending vessel), which would have been easily determined by broadband camera.

This is not the first time we've suffered such a loss either with similar incidents having occurred twice in the past decade. We are having to run our family's business off of a limited mobile hotspot at lower bandwidths than the business needs for video conferencing as well filming of real time operations for marketing, educational and security needs.

Very truly,

  
Charles H. Carter, III



---

Port Tobacco at Weanack // Weanack Land LLC  
461 Shirley Plantation, Charles City, VA 23030

804 357-3913  
[www.remadeland.com](http://www.remadeland.com)

[charles@remadeland.com](mailto:charles@remadeland.com)



324 West Main Street  
Charlottesville, VA 22903

September 3, 2019

Michelle Johnson  
Charles City County Administrator  
10900 Courthouse Road  
Charles City, VA 23030

Dear Ms. Johnson:

The purpose of this letter is to provide documentation regarding the in-kind contributions for the projects proposed to the Virginia Telecommunication Initiative (“VATI”) program.

The proposed project represents a partnership between Comcast and Charles City County. As indicated in the application, Comcast will provide approximately 25% of the projected construction costs of \$5,288,016, totaling approximately \$1,322,004. Charles City County will assist in providing in-kind contributions including application analysis and preparation, coordination with the Department of Housing and Community Development, assistance with right of way permitting, and participating in further concert with Comcast as the project is approved and construction begins. The value of these services will depend on the level of activity occurring as the project commences.

Should you have any questions regarding the information listed above, please do not hesitate to contact me.

Sincerely,

Nathan Daugherty  
Sr. Manager, Government Affairs & Regulatory Affairs

**Comcast / Charles City County Broadband Project - Development Funding Sources**

Source (e.g., HUD)	Amount	Status	Documentation Included
Comcast	\$1,322,004	<input checked="" type="checkbox"/> committed <input type="checkbox"/> pending	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
DHCD	\$3,966,012	<input type="checkbox"/> committed <input checked="" type="checkbox"/> pending	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		<input type="checkbox"/> committed <input type="checkbox"/> pending	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> committed <input type="checkbox"/> pending	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> committed <input type="checkbox"/> pending	<input type="checkbox"/> Yes <input type="checkbox"/> No

**Operating Funding Sources**

Source (e.g., HUD)	Amount	Status	Documentation Included
n/a		<input type="checkbox"/> committed <input type="checkbox"/> pending	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> committed <input type="checkbox"/> pending	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> committed <input type="checkbox"/> pending	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> committed <input type="checkbox"/> pending	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> committed <input type="checkbox"/> pending	<input type="checkbox"/> Yes <input type="checkbox"/> No

Comcast/Charles City  
County VATI Derivation of Costs

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>Comcast Broadband Project</b>					
<u>Construction</u>					
<i>Broadband Construction - 141 miles</i>	\$5,288,016	\$3,966,012	\$1,322,004	Comcast survey	9/3/2019



September 3, 2019

Michelle Johnson  
Charles City County Administrator  
10900 Courthouse Road  
Charles City, VA 23030

Dear Ms. Johnson:

The purpose of this letter is to provide information supporting the construction costs for the Comcast Broadband Project proposed to the Virginia Telecommunications Initiative (“VATI”) program.

The Comcast Broadband Project consists of includes infrastructure generally dispersed throughout much of the whole north-central area of Charles City County, as noted on the Project Area map included in the VATI grant application.

The total build is estimated to be 141 miles of infrastructure and laterals. Estimated budget costs for construction are:

Materials:	\$1,072, 260
Labor:	\$3,566,556
Facility:	\$150,000
Project Management:	\$499,200
 Total cost:	 \$5,288,016

Examples of items that are included in the Materials category are power supplies, fiber, conduit, splice enclosures, pedestals, and taps. Examples of items in the Labor category are in-house and contract labor to trench and backfill, lay conduit and fiber, perform administration of VDOT permits, and provide crew supervision. Examples of items in the Facility category include physical structures necessary to house Comcast equipment and hardware. The itemized breakdown of construction costs is confidential and proprietary information.

Should you have any questions regarding the information listed above, please do not hesitate to contact Nathan Daugherty at [nathan\\_daugherty@comcast.com](mailto:nathan_daugherty@comcast.com) or 434-238-0729.

Sincerely,

A handwritten signature in blue ink, appearing to read 'T. Yates' with a stylized flourish at the end.

Tom Yates  
Senior Director, Construction





324 West Main Street  
Charlottesville, VA 22903

September 3, 2019

Michelle Johnson  
Charles City County Administrator  
10900 Courthouse Road  
Charles City, VA 23030

Dear Ms. Johnson:

The purpose of this letter is to provide information supporting documentation for cost estimates for the Comcast Broadband Project proposed to the Virginia Telecommunications Initiative (“VATI”) program.

Comcast’s Construction and Design team managed projects that added thousands of miles to Comcast’s regional hybrid fiber coaxial network in 2017-18. Comcast’s construction estimates are determined through a detailed project analysis that includes a field survey, an analysis of permitting costs (internal or external), a network impact study to determine necessary hub site preparation and possible infrastructure requirements, and a financial evaluation for overall build costs and likely return-on-investment. When contract labor is utilized, costs are accrued according to the fee schedule in the contract. This design and construction process is standard within the telecommunications industry.

The precise amount to be spent on contract labor versus in house resources will be determined when the grant is approved and the work commences. The allocation of work will depend on the level of construction activity at that time. Any contracted engineering and design work outlined in this proposal will be performed by Comcast approved contractors.

Should you have any questions regarding the information listed above, please do not hesitate to contact Nathan Daugherty at [nathan\\_daugherty@comcast.com](mailto:nathan_daugherty@comcast.com) or 434-238-0729.

Sincerely,

Tom Yates  
Senior Director, Construction





September 3, 2019

Michelle Johnson  
Charles City County Administrator  
10900 Courthouse Road  
Charles City, VA 23030

Dear Ms. Johnson:

The purpose of this letter is to provide information regarding the two most recent Form 477 submissions by Comcast to the Federal Communications Commission. Data from these submissions can be located at <https://www.fcc.gov/general/broadband-deployment-data-fcc-form-477>. Summaries of each are attached to this letter.

Should you have any questions regarding the information listed above, please do not hesitate to contact me.

Sincerely,

Nathan Daugherty  
Sr. Manager, Government Affairs & Regulatory Affairs

(RETAIN FOR YOUR RECORDS)  
Form 477 Filing Summary

FRN: 0003768165 | Data as of: Dec 31, 2018 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 6, 2019 11:43:12

**Filer Identification**

Section	Question	Response
<b>Filer Information</b>	Company Name	COMCAST CABLE COMMUNICATIONS, LLC
	Holding Company Name	Comcast Corporation
	SAC ID	
	499 ID	812736, 820956, 822102, 823798, 825948, 827142, 832043
<b>Data Contact Information</b>	Data Contact Name	Joanne Horstmann
	Data Contact Phone Number	(610) 665-2546
	Data Contact E-mail	joanne_horstmann@cable.comcast.com
<b>Emergency Operations Contact Information</b>	Emergency Operations Name	Edge Services Desk
	Emergency Operations Phone Number	(800) 777-9824
	Emergency Operations E-mail	CNOC_Voice_EventMgmt@cable.comcast.com
<b>Certifying Official Contact Information</b>	Certifying Official Name	Julie Laine
	Certifying Official Phone Number	(215) 286-2334
	Certifying Official E-mail	Julie_Laine@comcast.com

**Data Submitted**

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	55.csv	Mar 6, 2019 10:24:06	1644
	54.csv	Mar 6, 2019 10:23:04	15801
	53.csv	Mar 6, 2019 10:21:53	74667
	51.csv	Mar 6, 2019 10:20:41	60837
	50.csv	Mar 6, 2019 10:19:16	10630
	49.csv	Mar 6, 2019 10:17:20	30370
	48.csv	Mar 6, 2019 10:15:57	65358
	47.csv	Mar 6, 2019 10:14:18	63236
	36.csv	Mar 6, 2019 10:13:14	1698
	35.csv	Mar 6, 2019 10:13:14	22660

Form Section	File Name	Date & Time	Number of Rows
	34.csv	Mar 6, 2019 10:13:14	77336
	33.csv	Mar 6, 2019 10:13:14	17064
	29.csv	Mar 6, 2019 10:13:14	5377
	28.csv	Mar 6, 2019 10:13:13	20394
	27.csv	Mar 6, 2019 10:13:13	34274
	26.csv	Mar 6, 2019 10:13:13	97886
	25.csv	Mar 6, 2019 10:13:13	86271
	24.csv	Mar 6, 2019 10:13:13	68768
	23.csv	Mar 6, 2019 10:13:13	2159
	22.csv	Mar 6, 2019 10:13:13	10354
	21.csv	Mar 6, 2019 10:13:13	5740
	45.csv	Mar 6, 2019 10:07:30	13212
	42.csv	Mar 6, 2019 10:05:43	180886
	20.csv	Mar 6, 2019 10:04:30	1423
	18.csv	Mar 6, 2019 10:04:29	89717
	17.csv	Mar 6, 2019 10:04:29	174924
	16.csv	Mar 6, 2019 10:04:29	47
	13.csv	Mar 6, 2019 10:04:29	67676
	12.csv	Mar 6, 2019 10:04:29	156513
	11.csv	Mar 6, 2019 10:04:29	5073
	10.csv	Mar 6, 2019 10:02:31	13840
	09.csv	Mar 6, 2019 10:02:31	25089
	08.csv	Mar 6, 2019 10:02:31	62692
	06.csv	Mar 6, 2019 10:02:31	138878
	05.csv	Mar 6, 2019 10:02:31	8454
	04.csv	Mar 6, 2019 10:02:31	3940
	01.csv	Mar 6, 2019 10:02:31	21183
	41.csv	Mar 6, 2019 10:01:33	38072
	39.csv	Mar 6, 2019 10:00:45	5871
	37.csv	Mar 6, 2019 09:59:48	144
Fixed Broadband Subscription	53.csv	Feb 27, 2019 15:17:24	21083
	48.csv	Feb 27, 2019 15:17:24	20216
	55.csv	Feb 27, 2019 15:09:11	400

Form Section	File Name	Date & Time	Number of Rows
	54.csv	Feb 27, 2019 15:09:11	2893
	51.csv	Feb 27, 2019 15:09:11	15993
	50.csv	Feb 27, 2019 15:09:11	2451
	49.csv	Feb 27, 2019 15:09:10	9308
	47.csv	Feb 27, 2019 15:09:10	16888
	45.csv	Feb 27, 2019 15:06:12	2691
	42.csv	Feb 27, 2019 15:06:12	41012
	41.csv	Feb 27, 2019 15:06:12	9478
	25.csv	Feb 27, 2019 15:05:24	22956
	39.csv	Feb 27, 2019 15:04:45	944
	37.csv	Feb 27, 2019 15:02:15	35
	18.csv	Feb 27, 2019 14:56:48	17567
	17.csv	Feb 27, 2019 14:56:48	42931
	16.csv	Feb 27, 2019 14:56:48	10
	13.csv	Feb 27, 2019 14:56:48	20865
	12.csv	Feb 27, 2019 14:56:48	40656
	11.csv	Feb 27, 2019 14:56:48	3020
	36.csv	Feb 27, 2019 14:52:24	421
	35.csv	Feb 27, 2019 14:52:24	5186
	34.csv	Feb 27, 2019 14:52:24	20079
	33.csv	Feb 27, 2019 14:52:24	3985
	29.csv	Feb 27, 2019 14:52:24	1464
	28.csv	Feb 27, 2019 14:52:24	4051
	27.csv	Feb 27, 2019 14:52:23	11901
	10.csv	Feb 27, 2019 14:50:04	3458
	09.csv	Feb 27, 2019 14:50:03	8020
	08.csv	Feb 27, 2019 14:50:03	18759
	06.csv	Feb 27, 2019 14:50:03	48079
	05.csv	Feb 27, 2019 14:50:03	1896
	04.csv	Feb 27, 2019 14:50:03	1657
	01.csv	Feb 27, 2019 14:50:03	4314
	26.csv	Feb 27, 2019 14:46:25	30211
	24.csv	Feb 27, 2019 14:46:24	21378

Form Section	File Name	Date & Time	Number of Rows
	23.csv	Feb 27, 2019 14:46:24	436
	22.csv	Feb 27, 2019 14:46:24	2195
	21.csv	Feb 27, 2019 14:46:24	947
	20.csv	Feb 27, 2019 14:46:24	537
Fixed Voice Subscription	48.csv	Feb 27, 2019 14:31:10	1190
	37.csv	Feb 27, 2019 14:31:10	36
	55.csv	Feb 27, 2019 14:21:01	44
	54.csv	Feb 27, 2019 14:21:01	227
	53.csv	Feb 27, 2019 14:21:01	1164
	51.csv	Feb 27, 2019 14:21:01	1069
	50.csv	Feb 27, 2019 14:21:01	162
	49.csv	Feb 27, 2019 14:21:01	508
	47.csv	Feb 27, 2019 14:21:01	993
	45.csv	Feb 27, 2019 14:21:01	180
	42.csv	Feb 27, 2019 14:21:01	2559
	41.csv	Feb 27, 2019 14:21:01	541
	39.csv	Feb 27, 2019 14:21:00	81
	36.csv	Feb 27, 2019 14:21:00	65
	35.csv	Feb 27, 2019 14:21:00	329
	34.csv	Feb 27, 2019 14:21:00	1303
	33.csv	Feb 27, 2019 14:21:00	249
	29.csv	Feb 27, 2019 14:21:00	109
	28.csv	Feb 27, 2019 14:21:00	277
	27.csv	Feb 27, 2019 14:21:00	667
	26.csv	Feb 27, 2019 14:21:00	1991
	25.csv	Feb 27, 2019 14:21:00	1315
	24.csv	Feb 27, 2019 14:13:03	1316
	23.csv	Feb 27, 2019 14:13:03	54
	22.csv	Feb 27, 2019 14:13:03	154
	21.csv	Feb 27, 2019 14:13:03	94
	20.csv	Feb 27, 2019 14:13:03	38
	18.csv	Feb 27, 2019 14:13:03	1090
	17.csv	Feb 27, 2019 14:13:03	2502

Form Section	File Name	Date & Time	Number of Rows
	16.csv	Feb 27, 2019 14:13:03	3
	13.csv	Feb 27, 2019 14:13:03	1240
	12.csv	Feb 27, 2019 14:13:03	2541
	11.csv	Feb 27, 2019 14:13:03	179
	10.csv	Feb 27, 2019 14:08:19	202
	09.csv	Feb 27, 2019 14:08:19	504
	08.csv	Feb 27, 2019 14:08:19	1044
	06.csv	Feb 27, 2019 14:08:19	2865
	05.csv	Feb 27, 2019 14:08:19	133
	04.csv	Feb 27, 2019 14:08:19	132
	01.csv	Feb 27, 2019 14:08:19	305

## Fixed Broadband Deployment

### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Alabama	Comcast	Cable Modem – DOCSIS 3.0	5146
		Cable Modem – DOCSIS 3.1	16037
Arizona	Comcast	Cable Modem – DOCSIS 3.1	3940
Arkansas	Comcast	Cable Modem – DOCSIS 3.0	17
		Cable Modem – DOCSIS 3.1	8437
California	Comcast	Cable Modem – DOCSIS 3.0	804
		Cable Modem – DOCSIS 3.1	138051
		Optical Carrier/Fiber to the End User	23
Colorado	Comcast	Cable Modem – DOCSIS 3.0	282
		Cable Modem – DOCSIS 3.1	62406
		Optical Carrier/Fiber to the End User	4
Connecticut	Comcast	Cable Modem – DOCSIS 3.0	4426
		Cable Modem – DOCSIS 3.1	20662
		Optical Carrier/Fiber to the End User	1
Delaware	Comcast	Cable Modem – DOCSIS 3.0	599
		Cable Modem – DOCSIS 3.1	13240
		Optical Carrier/Fiber to the End User	1
District of Columbia	Comcast	Cable Modem – DOCSIS 3.0	170



State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	4902
		Optical Carrier/Fiber to the End User	1
Florida	Comcast	Cable Modem – DOCSIS 3.0	10119
		Cable Modem – DOCSIS 3.1	146390
		Optical Carrier/Fiber to the End User	4
Georgia	Comcast	Cable Modem – DOCSIS 3.0	10945
		Cable Modem – DOCSIS 3.1	56728
		Optical Carrier/Fiber to the End User	3
Idaho	Comcast	Cable Modem – DOCSIS 3.1	47
Illinois	Comcast	Cable Modem – DOCSIS 3.0	743
		Cable Modem – DOCSIS 3.1	174173
		Optical Carrier/Fiber to the End User	8
Indiana	Comcast	Cable Modem – DOCSIS 3.0	3912
		Cable Modem – DOCSIS 3.1	85804
		Optical Carrier/Fiber to the End User	1
Kansas	Comcast	Cable Modem – DOCSIS 3.0	3
		Cable Modem – DOCSIS 3.1	1420
Kentucky	Comcast	Cable Modem – DOCSIS 3.0	5180
		Cable Modem – DOCSIS 3.1	560
Louisiana	Comcast	Cable Modem – DOCSIS 3.0	58
		Cable Modem – DOCSIS 3.1	10296
Maine	Comcast	Cable Modem – DOCSIS 3.0	186
		Cable Modem – DOCSIS 3.1	1973
Maryland	Comcast	Cable Modem – DOCSIS 3.0	5771
		Cable Modem – DOCSIS 3.1	62991
		Optical Carrier/Fiber to the End User	6
Massachusetts	Comcast	Cable Modem – DOCSIS 3.0	3971
		Cable Modem – DOCSIS 3.1	82284
		Optical Carrier/Fiber to the End User	16
Michigan	Comcast	Cable Modem – DOCSIS 3.0	9485
		Cable Modem – DOCSIS 3.1	88399
		Optical Carrier/Fiber to the End User	2
Minnesota	Comcast	Cable Modem – DOCSIS 3.0	28

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	34244
		Optical Carrier/Fiber to the End User	2
Mississippi	Comcast	Cable Modem – DOCSIS 3.0	7447
		Cable Modem – DOCSIS 3.1	12947
Missouri	Comcast	Cable Modem – DOCSIS 3.0	1
		Cable Modem – DOCSIS 3.1	5376
New Hampshire	Comcast	Cable Modem – DOCSIS 3.0	653
		Cable Modem – DOCSIS 3.1	16402
		Optical Carrier/Fiber to the End User	9
New Jersey	Comcast	Cable Modem – DOCSIS 3.0	4213
		Cable Modem – DOCSIS 3.1	73118
		Optical Carrier/Fiber to the End User	5
New Mexico	Comcast	Cable Modem – DOCSIS 3.0	2669
		Cable Modem – DOCSIS 3.1	19990
		Optical Carrier/Fiber to the End User	1
New York	Comcast	Cable Modem – DOCSIS 3.0	59
		Cable Modem – DOCSIS 3.1	1639
North Carolina	Comcast	Cable Modem – DOCSIS 3.0	9
		Cable Modem – DOCSIS 3.1	135
Ohio	Comcast	Cable Modem – DOCSIS 3.0	349
		Cable Modem – DOCSIS 3.1	5522
Oregon	Comcast	Cable Modem – DOCSIS 3.0	42
		Cable Modem – DOCSIS 3.1	38021
		Optical Carrier/Fiber to the End User	9
Pennsylvania	Comcast	Cable Modem – DOCSIS 3.0	9989
		Cable Modem – DOCSIS 3.1	170885
		Optical Carrier/Fiber to the End User	12
South Carolina	Comcast	Cable Modem – DOCSIS 3.0	3174
		Cable Modem – DOCSIS 3.1	10038
Tennessee	Comcast	Cable Modem – DOCSIS 3.0	10094
		Cable Modem – DOCSIS 3.1	53135
		Optical Carrier/Fiber to the End User	7
Texas	Comcast	Cable Modem – DOCSIS 3.0	311

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	65036
		Optical Carrier/Fiber to the End User	11
Utah	Comcast	Cable Modem – DOCSIS 3.0	78
		Cable Modem – DOCSIS 3.1	30291
		Optical Carrier/Fiber to the End User	1
Vermont	Comcast	Cable Modem – DOCSIS 3.0	504
		Cable Modem – DOCSIS 3.1	10126
Virginia	Comcast	Cable Modem – DOCSIS 3.0	12438
		Cable Modem – DOCSIS 3.1	48395
		Optical Carrier/Fiber to the End User	4
Washington	Comcast	Cable Modem – DOCSIS 3.0	63
		Cable Modem – DOCSIS 3.1	74596
		Optical Carrier/Fiber to the End User	8
West Virginia	Comcast	Cable Modem – DOCSIS 3.0	3797
		Cable Modem – DOCSIS 3.1	12003
		Optical Carrier/Fiber to the End User	1
Wisconsin	Comcast	Cable Modem – DOCSIS 3.1	1644
<b>Total</b>			<b>1780158</b>

## Fixed Broadband Subscription

### Fixed Broadband Subscriptions by State, Technology and End-user Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Cable Modem	4314	138114	16408	154522
Arizona	Cable Modem	1657	93468	3536	97004
Arkansas	Cable Modem	1896	58726	8285	67011
California	Cable Modem	48058	2746541	197417	2943958
	Optical Carrier/Fiber to the End User	21	25	0	25
Colorado	Cable Modem	18755	1144523	82087	1226610
	Optical Carrier/Fiber to the End User	4	4	0	4
Connecticut	Cable Modem	8019	458982	41003	499985
	Optical Carrier/Fiber to the End User	1	1	0	1
Delaware	Cable Modem	3457	190265	16048	206313
	Optical Carrier/Fiber to the End User	1	1	0	1

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
District of Columbia	Cable Modem	3019	132236	14999	147235
	Optical Carrier/Fiber to the End User	1	1	0	1
Florida	Cable Modem	40652	2390180	230652	2620832
	Optical Carrier/Fiber to the End User	4	4	0	4
Georgia	Cable Modem	20862	1153484	110101	1263585
	Optical Carrier/Fiber to the End User	3	3	0	3
Idaho	Cable Modem	10	106	6	112
Illinois	Cable Modem	42923	2066959	166984	2233943
	Optical Carrier/Fiber to the End User	8	8	0	8
Indiana	Cable Modem	17566	770802	63498	834300
	Optical Carrier/Fiber to the End User	1	1	0	1
Kansas	Cable Modem	537	15347	1406	16753
Kentucky	Cable Modem	947	44970	3947	48917
Louisiana	Cable Modem	2195	86901	9466	96367
Maine	Cable Modem	436	32938	2130	35068
Maryland	Cable Modem	21372	918093	82782	1000875
	Optical Carrier/Fiber to the End User	6	6	0	6
Massachusetts	Cable Modem	22942	1460260	121246	1581506
	Optical Carrier/Fiber to the End User	14	16	0	16
Michigan	Cable Modem	30209	1259656	103579	1363235
	Optical Carrier/Fiber to the End User	2	2	0	2
Minnesota	Cable Modem	11899	625487	48546	674033
	Optical Carrier/Fiber to the End User	2	2	0	2
Mississippi	Cable Modem	4051	162307	18765	181072
Missouri	Cable Modem	1464	67900	4217	72117
New Hampshire	Cable Modem	3977	309360	24754	334114
	Optical Carrier/Fiber to the End User	8	9	0	9
New Jersey	Cable Modem	20074	1093491	86031	1179522
	Optical Carrier/Fiber to the End User	5	5	0	5
New Mexico	Cable Modem	5185	233112	19277	252389
	Optical Carrier/Fiber to the End User	1	1	0	1
New York	Cable Modem	421	21243	1570	22813

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
North Carolina	Cable Modem	35	556	66	622
Ohio	Cable Modem	944	36327	3270	39597
Oregon	Cable Modem	9469	630789	54424	685213
	Optical Carrier/Fiber to the End User	9	9	0	9
Pennsylvania	Cable Modem	41000	1885330	165682	2051012
	Optical Carrier/Fiber to the End User	12	12	0	12
South Carolina	Cable Modem	2691	125678	12367	138045
Tennessee	Cable Modem	16881	708301	72129	780430
	Optical Carrier/Fiber to the End User	7	7	0	7
Texas	Cable Modem	20205	981666	104864	1086530
	Optical Carrier/Fiber to the End User	11	11	0	11
Utah	Cable Modem	9307	436762	34456	471218
	Optical Carrier/Fiber to the End User	1	1	0	1
Vermont	Cable Modem	2451	122143	11936	134079
Virginia	Cable Modem	15989	756338	69285	825623
	Optical Carrier/Fiber to the End User	4	4	0	4
Washington	Cable Modem	21075	1501401	99943	1601344
	Optical Carrier/Fiber to the End User	8	8	0	8
West Virginia	Cable Modem	2892	139666	10325	149991
	Optical Carrier/Fiber to the End User	1	1	0	1
Wisconsin	Cable Modem	400	19322	1691	21013
<b>Total</b>		<b>480371</b>	<b>25019872</b>	<b>2119178</b>	<b>27139050</b>

#### Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
3.000	0.770	226867	7426	234293
5.000	1.000	3813	0	3813
6.000	1.000	0	2350	2350
7.000	1.000	0	4711	4711
8.000	2.000	1855	0	1855
10.000	2.000	611	0	611
15.000	2.000	1088418	0	1088418
16.000	2.000	2770	9788	12558

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
19.000	4.000	518	0	518
20.000	1.000	135043	0	135043
22.000	5.000	0	42895	42895
25.000	2.000	621920	0	621920
25.000	4.000	65	0	65
25.000	5.000	4960	541468	546428
25.000	10.000	0	187524	187524
27.000	7.000	0	33294	33294
50.000	5.000	3842	0	3842
50.000	10.000	1734	493055	494789
55.000	5.000	16	0	16
60.000	5.000	3712149	0	3712149
70.000	5.000	165642	0	165642
75.000	5.000	133153	0	133153
75.000	10.000	404	0	404
75.000	15.000	6	342257	342263
100.000	5.000	185305	0	185305
100.000	10.000	280320	3501	283821
100.000	20.000	0	104812	104812
105.000	10.000	113048	0	113048
105.000	20.000	188808	0	188808
150.000	5.000	5104672	0	5104672
150.000	10.000	5091950	0	5091950
150.000	15.000	27297	0	27297
150.000	20.000	100328	239069	339397
200.000	10.000	882	0	882
205.000	20.000	10	0	10
250.000	10.000	4561845	0	4561845
250.000	20.000	1131801	0	1131801
250.000	25.000	80771	1465	82236
300.000	25.000	66419	46890	113309
400.000	10.000	1507553	0	1507553
500.000	35.000	0	5360	5360

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
986.500	35.000	474935	10361	485296
1000.000	1000.000	0	42952	42952
2000.000	2000.000	142	0	142
<b>Total</b>		<b>25019872</b>	<b>2119178</b>	<b>27139050</b>

#### Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Cable Modem	3.000	0.770	226867	7426	234293
	5.000	1.000	3813	0	3813
	6.000	1.000	0	2350	2350
	7.000	1.000	0	4711	4711
	8.000	2.000	1855	0	1855
	10.000	2.000	611	0	611
	15.000	2.000	1088418	0	1088418
	16.000	2.000	2770	9788	12558
	19.000	4.000	518	0	518
	20.000	1.000	135043	0	135043
	22.000	5.000	0	42895	42895
	25.000	2.000	621920	0	621920
	25.000	4.000	65	0	65
	25.000	5.000	4960	541468	546428
	25.000	10.000	0	187524	187524
	27.000	7.000	0	33294	33294
	50.000	5.000	3842	0	3842
	50.000	10.000	1734	493055	494789
	55.000	5.000	16	0	16
	60.000	5.000	3712149	0	3712149
	70.000	5.000	165642	0	165642
75.000	5.000	133153	0	133153	
75.000	10.000	404	0	404	
75.000	15.000	6	342257	342263	
100.000	5.000	185305	0	185305	
100.000	10.000	280320	3501	283821	

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	100.000	20.000	0	104812	104812
	105.000	10.000	113048	0	113048
	105.000	20.000	188808	0	188808
	150.000	5.000	5104672	0	5104672
	150.000	10.000	5091950	0	5091950
	150.000	15.000	27297	0	27297
	150.000	20.000	100328	239069	339397
	200.000	10.000	882	0	882
	205.000	20.000	10	0	10
	250.000	10.000	4561845	0	4561845
	250.000	20.000	1131801	0	1131801
	250.000	25.000	80771	1465	82236
	300.000	25.000	66419	46890	113309
	400.000	10.000	1507553	0	1507553
	500.000	35.000	0	5360	5360
	986.500	35.000	474935	10361	485296
	1000.000	1000.000	0	42952	42952
<b>Optical Carrier/Fiber to the End User</b>	2000.000	2000.000	142	0	142
<b>Total</b>			<b>25019872</b>	<b>2119178</b>	<b>27139050</b>

## Fixed Voice Subscription

### VGE Lines and VoIP Subscriptions by State and End-user Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Alabama	0	0	77738	49623
Arizona	0	0	45193	38661
Arkansas	0	0	32366	16635
California	0	0	1391487	998375
Colorado	0	0	573134	405529
Connecticut	0	0	358604	270004
Delaware	0	0	143484	112218
District of Columbia	0	0	73345	46970
Florida	0	0	1311660	860109
Georgia	0	0	613527	405090



State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Idaho	0	0	23	0
Illinois	0	0	1115178	764425
Indiana	0	0	397083	258069
Kansas	0	0	9771	7070
Kentucky	0	0	18866	12653
Louisiana	0	0	39989	27293
Maine	0	0	17031	14522
Maryland	0	0	623518	461779
Massachusetts	0	0	1141075	877862
Michigan	0	0	720546	493601
Minnesota	0	0	314434	224134
Mississippi	0	0	80744	52348
Missouri	0	0	36065	28956
New Hampshire	0	0	235711	185082
New Jersey	0	0	871338	699182
New Mexico	0	0	108245	69086
New York	0	0	19275	16210
North Carolina	0	0	901	0
Ohio	0	0	32142	24401
Oregon	0	0	326726	209211
Pennsylvania	0	0	1440673	1070417
South Carolina	0	0	57876	37988
Tennessee	0	0	358822	228430
Texas	0	0	519376	298825
Utah	0	0	199088	133825
Vermont	0	0	87758	66085
Virginia	0	0	475696	339654
Washington	0	0	771290	565072
West Virginia	0	0	81289	63207
Wisconsin	0	0	8946	5398
<b>Total</b>	<b>0</b>	<b>0</b>	<b>14730013</b>	<b>10437999</b>

**Fixed Voice  
Subscription  
(iVoIP)**

**Over-the-top VoIP Subscriptions by State and End-user Type**

State	Total	Consumer	Business / Govt
Alabama	0	0	0
Arizona	0	0	0
Arkansas	0	0	0
California	0	0	0
Colorado	0	0	0
Connecticut	0	0	0
Delaware	0	0	0
District of Columbia	0	0	0
Florida	0	0	0
Georgia	0	0	0
Idaho	0	0	0
Illinois	0	0	0
Indiana	0	0	0
Kansas	0	0	0
Kentucky	0	0	0
Louisiana	0	0	0
Maine	0	0	0
Maryland	0	0	0
Massachusetts	0	0	0
Michigan	0	0	0
Minnesota	0	0	0
Mississippi	0	0	0
Missouri	0	0	0
New Hampshire	0	0	0
New Jersey	0	0	0
New Mexico	0	0	0
New York	0	0	0
North Carolina	0	0	0
Ohio	0	0	0
Oregon	0	0	0
Pennsylvania	0	0	0
South Carolina	0	0	0

State	Total	Consumer	Business / Govt
Tennessee	0	0	0
Texas	0	0	0
Utah	0	0	0
Vermont	0	0	0
Virginia	0	0	0
Washington	0	0	0
West Virginia	0	0	0
Wisconsin	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

**All other VoIP Subscriptions by State, End-user Type, Bundle and Last-mile Medium**

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Alabama	77738	49623	28115	74640	3098	0	77738	0	0
Arizona	45193	38661	6532	44335	858	0	45193	0	0
Arkansas	32366	16635	15731	31445	921	0	32366	0	0
California	1391487	998375	393112	1368046	23441	0	1391487	0	0
Colorado	573134	405529	167605	557369	15765	0	573134	0	0
Connecticut	358604	270004	88600	349456	9148	0	358604	0	0
Delaware	143484	112218	31266	139670	3814	0	143484	0	0
District of Columbia	73345	46970	26375	71709	1636	0	73345	0	0
Florida	1311660	860109	451551	1268443	43217	0	1311660	0	0
Georgia	613527	405090	208437	598330	15197	0	613527	0	0
Idaho	23	0	23	0	23	0	23	0	0
Illinois	1115178	764425	350753	1086282	28896	0	1115178	0	0
Indiana	397083	258069	139014	383993	13090	0	397083	0	0
Kansas	9771	7070	2701	9527	244	0	9771	0	0
Kentucky	18866	12653	6213	18130	736	0	18866	0	0
Louisiana	39989	27293	12696	38526	1463	0	39989	0	0
Maine	17031	14522	2509	16596	435	0	17031	0	0
Maryland	623518	461779	161739	610507	13011	0	623518	0	0
Massachusetts	1141075	877862	263213	1103637	37438	0	1141075	0	0
Michigan	720546	493601	226945	695291	25255	0	720546	0	0

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Minnesota	314434	224134	90300	307055	7379	0	314434	0	0
Mississippi	80744	52348	28396	77671	3073	0	80744	0	0
Missouri	36065	28956	7109	35235	830	0	36065	0	0
New Hampshire	235711	185082	50629	227442	8269	0	235711	0	0
New Jersey	871338	699182	172156	851861	19477	0	871338	0	0
New Mexico	108245	69086	39159	105897	2348	0	108245	0	0
New York	19275	16210	3065	18944	331	0	19275	0	0
North Carolina	901	0	901	0	901	0	901	0	0
Ohio	32142	24401	7741	31021	1121	0	32142	0	0
Oregon	326726	209211	117515	317287	9439	0	326726	0	0
Pennsylvania	1440673	1070417	370256	1396659	44014	0	1440673	0	0
South Carolina	57876	37988	19888	55982	1894	0	57876	0	0
Tennessee	358822	228430	130392	347692	11130	0	358822	0	0
Texas	519376	298825	220551	510264	9112	0	519376	0	0
Utah	199088	133825	65263	195140	3948	0	199088	0	0
Vermont	87758	66085	21673	85259	2499	0	87758	0	0
Virginia	475696	339654	136042	464974	10722	0	475696	0	0
Washington	771290	565072	206218	751703	19587	0	771290	0	0
West Virginia	81289	63207	18082	79199	2090	0	81289	0	0
Wisconsin	8946	5398	3548	8470	476	0	8946	0	0
<b>Total</b>	<b>14730013</b>	<b>10437999</b>	<b>4292014</b>	<b>14333687</b>	<b>396326</b>	<b>0</b>	<b>14730013</b>	<b>0</b>	<b>0</b>

(RETAIN FOR YOUR RECORDS)  
Form 477 Filing Summary

FRN: 0003768165 | Data as of: Jun 30, 2018 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Aug 30, 2018 17:22:35

**Filer Identification**

Section	Question	Response
<b>Filer Information</b>	Provider Name	COMCAST CABLE COMMUNICATIONS, LLC
	Holding Company Name	Comcast Corporation
	SAC ID	
	499 ID	812736, 820956, 822102, 823798, 825948, 827142, 832043
<b>Data Contact Information</b>	Data Contact Name	Joanne Horstmann
	Data Contact Phone Number	(610) 665-2546
	Data Contact E-mail	joanne_horstmann@cable.comcast.com
<b>Emergency Operations Contact Information</b>	Emergency Operations Name	Edge Service Desk
	Emergency Operations Phone Number	(800) 777-9824
	Emergency Operations E-mail	CNOC_Voice_EventMgmt@cable.comcast.com
<b>Certifying Official Contact Information</b>	Certifying Official Name	Julie Laine
	Certifying Official Phone Number	(215) 286-2334
	Certifying Official E-mail	Julie_Laine@comcast.com

**Data Submitted**

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	36.csv	Aug 30, 2018 11:54:29	1689
	35.csv	Aug 30, 2018 11:54:29	22604
	34.csv	Aug 30, 2018 11:54:29	77078
	33.csv	Aug 29, 2018 16:26:46	16956
	29.csv	Aug 29, 2018 16:26:46	5357
	28.csv	Aug 29, 2018 16:26:46	20774
	27.csv	Aug 29, 2018 16:26:46	34275
	26.csv	Aug 29, 2018 16:26:46	97699
	55.csv	Aug 29, 2018 16:16:53	1639
	54.csv	Aug 29, 2018 16:16:14	15649

Form Section	File Name	Date & Time	Number of Rows
	53.csv	Aug 29, 2018 16:14:47	74580
	51.csv	Aug 29, 2018 16:13:42	60604
	50.csv	Aug 29, 2018 16:12:44	10589
	25.csv	Aug 29, 2018 16:12:11	86160
	23.csv	Aug 29, 2018 16:12:11	2134
	24.csv	Aug 29, 2018 16:12:11	68672
	22.csv	Aug 29, 2018 16:12:11	10354
	21.csv	Aug 29, 2018 16:12:11	5726
	49.csv	Aug 29, 2018 16:12:01	30199
	48.csv	Aug 29, 2018 16:11:25	65094
	47.csv	Aug 29, 2018 16:10:43	63275
	45.csv	Aug 29, 2018 16:10:09	13219
	42.csv	Aug 29, 2018 16:09:39	180414
	41.csv	Aug 29, 2018 16:08:27	38032
	39.csv	Aug 29, 2018 16:06:59	5854
	37.csv	Aug 29, 2018 16:05:52	145
	20.csv	Aug 29, 2018 16:00:36	1424
	18.csv	Aug 29, 2018 16:00:35	89638
	17.csv	Aug 29, 2018 16:00:35	174692
	16.csv	Aug 29, 2018 16:00:35	46
	13.csv	Aug 29, 2018 16:00:35	67489
	12.csv	Aug 29, 2018 15:58:55	156402
	11.csv	Aug 29, 2018 15:58:55	5082
	10.csv	Aug 29, 2018 15:58:55	13811
	09.csv	Aug 29, 2018 15:58:55	24502
	08.csv	Aug 29, 2018 15:58:55	62487
	06.csv	Aug 29, 2018 15:56:24	138664
	05.csv	Aug 29, 2018 15:56:24	8420
	04.csv	Aug 29, 2018 15:56:24	3933
	01.csv	Aug 29, 2018 15:56:24	21193
Fixed Broadband Subscription	53.csv	Aug 30, 2018 17:02:45	21669
	48.csv	Aug 30, 2018 16:55:01	20268
	55.csv	Aug 30, 2018 16:53:45	391

Form Section	File Name	Date & Time	Number of Rows
	54.csv	Aug 30, 2018 16:52:22	2736
	51.csv	Aug 30, 2018 16:50:40	15642
	50.csv	Aug 30, 2018 16:49:47	2449
	36.csv	Aug 30, 2018 16:49:20	395
	35.csv	Aug 30, 2018 16:49:20	5426
	34.csv	Aug 30, 2018 16:49:20	19611
	33.csv	Aug 30, 2018 16:49:20	3986
	29.csv	Aug 30, 2018 16:49:20	1448
	28.csv	Aug 30, 2018 16:49:20	3600
	27.csv	Aug 30, 2018 16:49:20	12341
	49.csv	Aug 30, 2018 16:47:55	9467
	47.csv	Aug 30, 2018 16:46:02	15850
	26.csv	Aug 30, 2018 16:45:15	27178
	24.csv	Aug 30, 2018 16:45:15	20580
	23.csv	Aug 30, 2018 16:45:15	436
	21.csv	Aug 30, 2018 16:45:15	954
	45.csv	Aug 30, 2018 16:44:50	2436
	42.csv	Aug 30, 2018 16:44:01	39940
	37.csv	Aug 30, 2018 16:42:58	34
	05.csv	Aug 30, 2018 16:39:15	1730
	20.csv	Aug 30, 2018 16:37:43	527
	18.csv	Aug 30, 2018 16:37:43	16166
	17.csv	Aug 30, 2018 16:37:43	40534
	13.csv	Aug 30, 2018 16:37:43	19985
	12.csv	Aug 30, 2018 16:37:43	37184
	10.csv	Aug 30, 2018 16:37:42	3333
	08.csv	Aug 30, 2018 16:37:42	19588
	06.csv	Aug 30, 2018 16:37:42	50729
	04.csv	Aug 30, 2018 16:37:42	1776
	01.csv	Aug 30, 2018 16:37:42	3980
	25.csv	Aug 30, 2018 16:19:29	23073
	22.csv	Aug 30, 2018 16:19:29	1963
	41.csv	Aug 30, 2018 16:18:53	9696

Form Section	File Name	Date & Time	Number of Rows
	39.csv	Aug 30, 2018 16:17:50	865
	16.csv	Aug 30, 2018 16:16:50	10
	11.csv	Aug 30, 2018 16:16:49	2958
	09.csv	Aug 30, 2018 16:16:49	7928
Fixed Voice Subscription	20.csv	Aug 30, 2018 10:48:08	35
	18.csv	Aug 30, 2018 10:48:07	1073
	17.csv	Aug 30, 2018 10:48:07	2488
	16.csv	Aug 30, 2018 10:48:07	2
	13.csv	Aug 30, 2018 10:48:07	1199
	12.csv	Aug 30, 2018 10:48:07	2481
	11.csv	Aug 30, 2018 10:48:07	179
	10.csv	Aug 30, 2018 10:48:07	199
	09.csv	Aug 30, 2018 10:48:07	489
	08.csv	Aug 30, 2018 10:48:07	1035
	06.csv	Aug 30, 2018 10:48:07	2806
	05.csv	Aug 30, 2018 10:48:07	122
	04.csv	Aug 30, 2018 10:48:07	118
	01.csv	Aug 30, 2018 10:48:07	302
	48.csv	Aug 30, 2018 10:15:32	1153
	55.csv	Aug 30, 2018 10:06:22	33
	54.csv	Aug 30, 2018 10:05:32	215
	53.csv	Aug 30, 2018 10:04:35	1140
	51.csv	Aug 30, 2018 09:59:56	1066
	50.csv	Aug 30, 2018 09:56:58	157
	49.csv	Aug 30, 2018 09:55:25	500
	47.csv	Aug 30, 2018 09:53:31	984
	42.csv	Aug 30, 2018 09:52:32	2507
	45.csv	Aug 30, 2018 09:50:48	179
	41.csv	Aug 30, 2018 09:47:44	533
	39.csv	Aug 30, 2018 09:46:26	73
	37.csv	Aug 30, 2018 09:43:55	20
	36.csv	Aug 30, 2018 09:19:44	52
	35.csv	Aug 30, 2018 09:19:44	326



Form Section	File Name	Date & Time	Number of Rows
	34.csv	Aug 30, 2018 09:19:44	1261
	33.csv	Aug 30, 2018 09:19:44	234
	29.csv	Aug 30, 2018 09:19:44	97
	28.csv	Aug 30, 2018 09:19:44	279
	27.csv	Aug 30, 2018 09:19:44	642
	26.csv	Aug 30, 2018 09:12:51	1943
	25.csv	Aug 30, 2018 09:12:51	1294
	24.csv	Aug 30, 2018 09:12:51	1312
	23.csv	Aug 30, 2018 09:12:51	39
	22.csv	Aug 30, 2018 09:12:51	148
	21.csv	Aug 30, 2018 09:12:51	91

## Fixed Broadband Deployment

### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Alabama	Comcast	Cable Modem – DOCSIS 3.0	6932
		Cable Modem – DOCSIS 3.1	14261
Arizona	Comcast	Cable Modem – DOCSIS 3.1	3933
Arkansas	Comcast	Cable Modem – DOCSIS 3.0	519
		Cable Modem – DOCSIS 3.1	7901
California	Comcast	Cable Modem – DOCSIS 3.0	718
		Cable Modem – DOCSIS 3.1	137919
		Optical Carrier/Fiber to the End User	27
Colorado	Comcast	Cable Modem – DOCSIS 3.0	269
		Cable Modem – DOCSIS 3.1	62214
		Optical Carrier/Fiber to the End User	4
Connecticut	Comcast	Cable Modem – DOCSIS 3.0	4399
		Cable Modem – DOCSIS 3.1	20102
		Optical Carrier/Fiber to the End User	1
Delaware	Comcast	Cable Modem – DOCSIS 3.0	610
		Cable Modem – DOCSIS 3.1	13200
		Optical Carrier/Fiber to the End User	1
District of Columbia	Comcast	Cable Modem – DOCSIS 3.0	170

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	4911
		Optical Carrier/Fiber to the End User	1
Florida	Comcast	Cable Modem – DOCSIS 3.0	19145
		Cable Modem – DOCSIS 3.1	137254
		Optical Carrier/Fiber to the End User	3
Georgia	Comcast	Cable Modem – DOCSIS 3.0	13459
		Cable Modem – DOCSIS 3.1	54027
		Optical Carrier/Fiber to the End User	3
Idaho	Comcast	Cable Modem – DOCSIS 3.1	46
Illinois	Comcast	Cable Modem – DOCSIS 3.0	9536
		Cable Modem – DOCSIS 3.1	165149
		Optical Carrier/Fiber to the End User	7
Indiana	Comcast	Cable Modem – DOCSIS 3.0	7924
		Cable Modem – DOCSIS 3.1	81713
		Optical Carrier/Fiber to the End User	1
Kansas	Comcast	Cable Modem – DOCSIS 3.0	4
		Cable Modem – DOCSIS 3.1	1420
Kentucky	Comcast	Cable Modem – DOCSIS 3.0	5192
		Cable Modem – DOCSIS 3.1	534
Louisiana	Comcast	Cable Modem – DOCSIS 3.0	622
		Cable Modem – DOCSIS 3.1	9732
Maine	Comcast	Cable Modem – DOCSIS 3.0	182
		Cable Modem – DOCSIS 3.1	1952
Maryland	Comcast	Cable Modem – DOCSIS 3.0	5874
		Cable Modem – DOCSIS 3.1	62793
		Optical Carrier/Fiber to the End User	5
Massachusetts	Comcast	Cable Modem – DOCSIS 3.0	3986
		Cable Modem – DOCSIS 3.1	82163
		Optical Carrier/Fiber to the End User	11
Michigan	Comcast	Cable Modem – DOCSIS 3.0	13822
		Cable Modem – DOCSIS 3.1	83876
		Optical Carrier/Fiber to the End User	1
Minnesota	Comcast	Cable Modem – DOCSIS 3.0	28

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	34245
		Optical Carrier/Fiber to the End User	2
Mississippi	Comcast	Cable Modem – DOCSIS 3.0	8690
		Cable Modem – DOCSIS 3.1	12084
Missouri	Comcast	Cable Modem – DOCSIS 3.0	1
		Cable Modem – DOCSIS 3.1	5356
New Hampshire	Comcast	Cable Modem – DOCSIS 3.0	654
		Cable Modem – DOCSIS 3.1	16294
		Optical Carrier/Fiber to the End User	8
New Jersey	Comcast	Cable Modem – DOCSIS 3.0	4154
		Cable Modem – DOCSIS 3.1	72921
		Optical Carrier/Fiber to the End User	3
New Mexico	Comcast	Cable Modem – DOCSIS 3.0	2668
		Cable Modem – DOCSIS 3.1	19935
		Optical Carrier/Fiber to the End User	1
New York	Comcast	Cable Modem – DOCSIS 3.0	57
		Cable Modem – DOCSIS 3.1	1632
North Carolina	Comcast	Cable Modem – DOCSIS 3.0	8
		Cable Modem – DOCSIS 3.1	137
Ohio	Comcast	Cable Modem – DOCSIS 3.0	338
		Cable Modem – DOCSIS 3.1	5516
Oregon	Comcast	Cable Modem – DOCSIS 3.0	41
		Cable Modem – DOCSIS 3.1	37982
		Optical Carrier/Fiber to the End User	9
Pennsylvania	Comcast	Cable Modem – DOCSIS 3.0	23723
		Cable Modem – DOCSIS 3.1	156681
		Optical Carrier/Fiber to the End User	10
South Carolina	Comcast	Cable Modem – DOCSIS 3.0	4296
		Cable Modem – DOCSIS 3.1	8923
Tennessee	Comcast	Cable Modem – DOCSIS 3.0	13100
		Cable Modem – DOCSIS 3.1	50168
		Optical Carrier/Fiber to the End User	7
Texas	Comcast	Cable Modem – DOCSIS 3.0	401

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	64681
		Optical Carrier/Fiber to the End User	12
Utah	Comcast	Cable Modem – DOCSIS 3.0	70
		Cable Modem – DOCSIS 3.1	30128
		Optical Carrier/Fiber to the End User	1
Vermont	Comcast	Cable Modem – DOCSIS 3.0	496
		Cable Modem – DOCSIS 3.1	10093
Virginia	Comcast	Cable Modem – DOCSIS 3.0	13378
		Cable Modem – DOCSIS 3.1	47224
		Optical Carrier/Fiber to the End User	2
Washington	Comcast	Cable Modem – DOCSIS 3.0	112
		Cable Modem – DOCSIS 3.1	74460
		Optical Carrier/Fiber to the End User	8
West Virginia	Comcast	Cable Modem – DOCSIS 3.0	3690
		Cable Modem – DOCSIS 3.1	11958
		Optical Carrier/Fiber to the End User	1
Wisconsin	Comcast	Cable Modem – DOCSIS 3.1	1639
<b>Total</b>			<b>1776554</b>

## Fixed Broadband Subscription

### Fixed Broadband Subscriptions by State, Technology and End-user Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Cable Modem	3980	133774	16085	149859
Arizona	Cable Modem	1776	86496	3320	89816
Arkansas	Cable Modem	1730	55326	7918	63244
California	Cable Modem	50704	2671244	190503	2861747
	Optical Carrier/Fiber to the End User	25	30	0	30
Colorado	Cable Modem	19584	1095402	77910	1173312
	Optical Carrier/Fiber to the End User	4	4	0	4
Connecticut	Cable Modem	7927	437391	40079	477470
	Optical Carrier/Fiber to the End User	1	1	0	1
Delaware	Cable Modem	3332	181870	15554	197424
	Optical Carrier/Fiber to the End User	1	1	0	1

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
District of Columbia	Cable Modem	2957	130064	14602	144666
	Optical Carrier/Fiber to the End User	1	1	0	1
Florida	Cable Modem	37181	2209461	223300	2432761
	Optical Carrier/Fiber to the End User	3	3	0	3
Georgia	Cable Modem	19982	1117348	105753	1223101
	Optical Carrier/Fiber to the End User	3	3	0	3
Idaho	Cable Modem	10	101	6	107
Illinois	Cable Modem	40527	1990200	159352	2149552
	Optical Carrier/Fiber to the End User	7	7	0	7
Indiana	Cable Modem	16165	734632	61140	795772
	Optical Carrier/Fiber to the End User	1	1	0	1
Kansas	Cable Modem	527	14981	1304	16285
Kentucky	Cable Modem	954	43617	3796	47413
Louisiana	Cable Modem	1963	82900	9325	92225
Maine	Cable Modem	436	32361	2083	34444
Maryland	Cable Modem	20575	884980	80637	965617
	Optical Carrier/Fiber to the End User	5	5	0	5
Massachusetts	Cable Modem	23063	1425965	119309	1545274
	Optical Carrier/Fiber to the End User	10	11	0	11
Michigan	Cable Modem	27177	1202166	99719	1301885
	Optical Carrier/Fiber to the End User	1	1	0	1
Minnesota	Cable Modem	12339	606419	45954	652373
	Optical Carrier/Fiber to the End User	2	2	0	2
Mississippi	Cable Modem	3600	155128	18489	173617
Missouri	Cable Modem	1448	65430	3895	69325
New Hampshire	Cable Modem	3978	302519	24587	327106
	Optical Carrier/Fiber to the End User	8	8	0	8
New Jersey	Cable Modem	19608	1071293	84513	1155806
	Optical Carrier/Fiber to the End User	3	3	0	3
New Mexico	Cable Modem	5425	219858	18220	238078
	Optical Carrier/Fiber to the End User	1	1	0	1
New York	Cable Modem	395	20878	1543	22421

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
North Carolina	Cable Modem	34	533	64	597
Ohio	Cable Modem	865	34938	3167	38105
Oregon	Cable Modem	9687	613025	52703	665728
	Optical Carrier/Fiber to the End User	9	9	0	9
Pennsylvania	Cable Modem	39930	1813539	161382	1974921
	Optical Carrier/Fiber to the End User	10	10	0	10
South Carolina	Cable Modem	2436	121321	11782	133103
Tennessee	Cable Modem	15843	682723	69960	752683
	Optical Carrier/Fiber to the End User	7	7	0	7
Texas	Cable Modem	20256	929639	99945	1029584
	Optical Carrier/Fiber to the End User	12	12	0	12
Utah	Cable Modem	9466	417408	32644	450052
	Optical Carrier/Fiber to the End User	1	1	0	1
Vermont	Cable Modem	2449	114871	11649	126520
Virginia	Cable Modem	15640	722966	66604	789570
	Optical Carrier/Fiber to the End User	2	2	0	2
Washington	Cable Modem	21661	1456351	95681	1552032
	Optical Carrier/Fiber to the End User	8	8	0	8
West Virginia	Cable Modem	2735	130290	9907	140197
	Optical Carrier/Fiber to the End User	1	1	0	1
Wisconsin	Cable Modem	391	18454	1617	20071
<b>Total</b>		<b>468862</b>	<b>24027994</b>	<b>2046001</b>	<b>26073995</b>

#### Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
3.000	0.770	242684	7842	250526
5.000	0.614	4	0	4
5.000	1.000	4225	0	4225
6.000	1.000	0	3229	3229
7.000	1.000	0	4916	4916
8.000	2.000	1896	0	1896
10.000	2.000	52801	0	52801
15.000	2.000	936509	0	936509

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
16.000	2.000	2617	11877	14494
16.000	3.000	1	0	1
19.000	4.000	651	0	651
20.000	1.000	62	0	62
22.000	5.000	157	42440	42597
25.000	2.000	467833	0	467833
25.000	4.000	8504	1	8505
25.000	5.000	16904	525923	542827
25.000	10.000	1	217002	217003
27.000	7.000	2	39490	39492
50.000	5.000	4093	0	4093
50.000	10.000	1671	561279	562950
55.000	5.000	2281	0	2281
60.000	5.000	3555998	0	3555998
70.000	5.000	192546	0	192546
75.000	5.000	151998	0	151998
75.000	10.000	1637	0	1637
75.000	15.000	27	238462	238489
100.000	5.000	61005	0	61005
100.000	10.000	5032672	3797	5036469
100.000	15.000	26934	0	26934
100.000	20.000	5	119421	119426
105.000	10.000	146037	0	146037
105.000	20.000	239745	0	239745
150.000	5.000	5128895	0	5128895
150.000	10.000	144699	0	144699
150.000	20.000	1193197	193925	1387122
150.000	35.000	23	0	23
200.000	10.000	99193	0	99193
205.000	20.000	28	0	28
250.000	10.000	4745001	0	4745001
250.000	25.000	109270	29554	138824
300.000	25.000	95349	26	95375

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
400.000	10.000	1167643	0	1167643
500.000	35.000	0	2781	2781
986.500	35.000	193064	6054	199118
1000.000	1000.000	0	37982	37982
2000.000	2000.000	132	0	132
<b>Total</b>		<b>24027994</b>	<b>2046001</b>	<b>26073995</b>

#### Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
<b>Cable Modem</b>	3.000	0.770	242684	7842	250526
	5.000	0.614	4	0	4
	5.000	1.000	4225	0	4225
	6.000	1.000	0	3229	3229
	7.000	1.000	0	4916	4916
	8.000	2.000	1896	0	1896
	10.000	2.000	52801	0	52801
	15.000	2.000	936509	0	936509
	16.000	2.000	2617	11877	14494
	16.000	3.000	1	0	1
	19.000	4.000	651	0	651
	20.000	1.000	62	0	62
	22.000	5.000	157	42440	42597
	25.000	2.000	467833	0	467833
	25.000	4.000	8504	1	8505
	25.000	5.000	16904	525923	542827
	25.000	10.000	1	217002	217003
	27.000	7.000	2	39490	39492
	50.000	5.000	4093	0	4093
	50.000	10.000	1671	561279	562950
55.000	5.000	2281	0	2281	
60.000	5.000	3555998	0	3555998	
70.000	5.000	192546	0	192546	
75.000	5.000	151998	0	151998	



Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	75.000	10.000	1637	0	1637
	75.000	15.000	27	238462	238489
	100.000	5.000	61005	0	61005
	100.000	10.000	5032672	3797	5036469
	100.000	15.000	26934	0	26934
	100.000	20.000	5	119421	119426
	105.000	10.000	146037	0	146037
	105.000	20.000	239745	0	239745
	150.000	5.000	5128895	0	5128895
	150.000	10.000	144699	0	144699
	150.000	20.000	1193197	193925	1387122
	150.000	35.000	23	0	23
	200.000	10.000	99193	0	99193
	205.000	20.000	28	0	28
	250.000	10.000	4745001	0	4745001
	250.000	25.000	109270	29554	138824
	300.000	25.000	95349	26	95375
	400.000	10.000	1167643	0	1167643
	500.000	35.000	0	2781	2781
	986.500	35.000	193064	6054	199118
	1000.000	1000.000	0	37982	37982
<b>Optical Carrier/Fiber to the End User</b>	2000.000	2000.000	132	0	132
<b>Total</b>			<b>24027994</b>	<b>2046001</b>	<b>26073995</b>

## Fixed Voice Subscription

### VGE Lines and VoIP Subscriptions by State and End-user Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Alabama	0	0	80980	52618
Arizona	0	0	44950	38412
Arkansas	0	0	33259	17958
California	0	0	1391915	1003247
Colorado	0	0	571074	406056
Connecticut	0	0	355316	267225

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Delaware	0	0	141500	110525
District of Columbia	0	0	74160	48119
Florida	0	0	1336332	888839
Georgia	0	0	623561	420236
Idaho	0	0	21	0
Illinois	0	0	1147871	803219
Indiana	0	0	409654	273374
Kansas	0	0	9634	7085
Kentucky	0	0	19588	13545
Louisiana	0	0	41409	28739
Maine	0	0	16819	14364
Maryland	0	0	619293	460018
Massachusetts	0	0	1140649	878823
Michigan	0	0	737026	514163
Minnesota	0	0	315690	228321
Mississippi	0	0	83498	54893
Missouri	0	0	35626	28695
New Hampshire	0	0	236064	186008
New Jersey	0	0	869615	697919
New Mexico	0	0	106557	68421
New York	0	0	19184	16143
North Carolina	0	0	835	0
Ohio	0	0	31652	24072
Oregon	0	0	330053	213330
Pennsylvania	0	0	1426141	1060115
South Carolina	0	0	58880	39162
Tennessee	0	0	368143	238942
Texas	0	0	510400	294402
Utah	0	0	197180	132190
Vermont	0	0	87075	65684
Virginia	0	0	466056	332898
Washington	0	0	773573	572347
West Virginia	0	0	79074	61472

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Wisconsin	0	0	8733	5289
<b>Total</b>	<b>0</b>	<b>0</b>	<b>14799040</b>	<b>10566868</b>

**Fixed Voice  
Subscription  
(iVoIP)**

**Over-the-top VoIP Subscriptions by State and End-user Type**

State	Total	Consumer	Business / Govt
Alabama	0	0	0
Arizona	0	0	0
Arkansas	0	0	0
California	0	0	0
Colorado	0	0	0
Connecticut	0	0	0
Delaware	0	0	0
District of Columbia	0	0	0
Florida	0	0	0
Georgia	0	0	0
Idaho	0	0	0
Illinois	0	0	0
Indiana	0	0	0
Kansas	0	0	0
Kentucky	0	0	0
Louisiana	0	0	0
Maine	0	0	0
Maryland	0	0	0
Massachusetts	0	0	0
Michigan	0	0	0
Minnesota	0	0	0
Mississippi	0	0	0
Missouri	0	0	0
New Hampshire	0	0	0
New Jersey	0	0	0
New Mexico	0	0	0
New York	0	0	0

State	Total	Consumer	Business / Govt
North Carolina	0	0	0
Ohio	0	0	0
Oregon	0	0	0
Pennsylvania	0	0	0
South Carolina	0	0	0
Tennessee	0	0	0
Texas	0	0	0
Utah	0	0	0
Vermont	0	0	0
Virginia	0	0	0
Washington	0	0	0
West Virginia	0	0	0
Wisconsin	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

**All other VoIP Subscriptions by State, End-user Type, Bundle and Last-mile Medium**

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Alabama	80980	52618	28362	77665	3315	0	80980	0	0
Arizona	44950	38412	6538	44111	839	0	44950	0	0
Arkansas	33259	17958	15301	32294	965	0	33259	0	0
California	1391915	1003247	388668	1368613	23302	0	1391915	0	0
Colorado	571074	406056	165018	555028	16046	0	571074	0	0
Connecticut	355316	267225	88091	345555	9761	0	355316	0	0
Delaware	141500	110525	30975	137546	3954	0	141500	0	0
District of Columbia	74160	48119	26041	72523	1637	0	74160	0	0
Florida	1336332	888839	447493	1291344	44988	0	1336332	0	0
Georgia	623561	420236	203325	608164	15397	0	623561	0	0
Idaho	21	0	21	0	21	0	21	0	0
Illinois	1147871	803219	344652	1118806	29065	0	1147871	0	0
Indiana	409654	273374	136280	396404	13250	0	409654	0	0
Kansas	9634	7085	2549	9392	242	0	9634	0	0
Kentucky	19588	13545	6043	18823	765	0	19588	0	0

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Louisiana	41409	28739	12670	39875	1534	0	41409	0	0
Maine	16819	14364	2455	16396	423	0	16819	0	0
Maryland	619293	460018	159275	605958	13335	0	619293	0	0
Massachusetts	1140649	878823	261826	1100630	40019	0	1140649	0	0
Michigan	737026	514163	222863	710857	26169	0	737026	0	0
Minnesota	315690	228321	87369	308389	7301	0	315690	0	0
Mississippi	83498	54893	28605	80212	3286	0	83498	0	0
Missouri	35626	28695	6931	34781	845	0	35626	0	0
New Hampshire	236064	186008	50056	228340	7724	0	236064	0	0
New Jersey	869615	697919	171696	849727	19888	0	869615	0	0
New Mexico	106557	68421	38136	104236	2321	0	106557	0	0
New York	19184	16143	3041	18847	337	0	19184	0	0
North Carolina	835	0	835	0	835	0	835	0	0
Ohio	31652	24072	7580	30422	1230	0	31652	0	0
Oregon	330053	213330	116723	320388	9665	0	330053	0	0
Pennsylvania	1426141	1060115	366026	1380002	46139	0	1426141	0	0
South Carolina	58880	39162	19718	56910	1970	0	58880	0	0
Tennessee	368143	238942	129201	356529	11614	0	368143	0	0
Texas	510400	294402	215998	501398	9002	0	510400	0	0
Utah	197180	132190	64990	193188	3992	0	197180	0	0
Vermont	87075	65684	21391	84399	2676	0	87075	0	0
Virginia	466056	332898	133158	455100	10956	0	466056	0	0
Washington	773573	572347	201226	753713	19860	0	773573	0	0
West Virginia	79074	61472	17602	76843	2231	0	79074	0	0
Wisconsin	8733	5289	3444	8200	533	0	8733	0	0
<b>Total</b>	<b>14799040</b>	<b>10566868</b>	<b>4232172</b>	<b>14391608</b>	<b>407432</b>	<b>0</b>	<b>14799040</b>	<b>0</b>	<b>0</b>



324 West Main Street  
Charlottesville, VA 22903

September 3, 2019

ATTACHMENT 15. Copy of Public Notice

Charles City County posted the following Public Notice to its website on August 2, 2019. It can be accessed online at <http://co.charles-city.va.us/CivicAlerts.aspx?AID=107>.

**CHARLES CITY COUNTY BOARD OF SUPERVISORS NOTICE OF AND REQUEST FOR PUBLIC COMMENT VIRGINIA TELECOMMUNICATIONS INITIATIVE (VATI) 2020 APPLICATION:**

Charles City County intends to file a grant application with the Virginia Department of Housing and Community Development (DHCD) under its 2020 Virginia Telecommunications Initiative (“VATI”). In accordance with VATI Program guidelines, Charles City County is requesting public comments regarding the proposed submission. Comments will be accepted from August 6 through August 21, 2019.

BACKGROUND/ SUMMARY:

Facilitating the expansion of broadband access across the unserved areas of Charles City County continues to be a top priority for the County’s Board of Supervisors. This grant submission will request the financial assistance necessary for carrying out the project, through a public/ private partnership.

The Virginia Department of Housing and Community Development (DHCD) announced a competitive grant and application process to award \$19 million to eligible applicants to provide last-mile services to unserved areas in the Commonwealth of Virginia. The primary objective of the VATI is to provide assistance to supplement construction costs by private sector broadband service providers, in partnership with local units of government to extend service to areas that are presently unserved by any broadband provider. Unserved areas are defined as having broadband speeds of less than 10 Mbps download and 1 Mbps upload or less. In addition, a proposed project area is considered eligible if 10% or less of serviceable units have access to service with no additional special construction costs from any provider as of the date of the application for the proposed project areas. Applications must be submitted by a unit of government (Towns, Cities, Counties, EDA/ IDA, Broadband/ Wireless Authorities, Planning District Commissions, etc.) with a private sector provider(s) as a co-applicant. Public comment is encouraged.

COMMENT SUBMITTAL:

Attn: Abbey Pemberton Department of Finance Charles City County Post Office Box 128  
Charles City, VA 23030 Email: [apemberton@co.charles-city.va.us](mailto:apemberton@co.charles-city.va.us)











Verizon Virginia LLC	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366003001071	10	1	1.5	0.384	1	0	0
Verizon Virginia LLC	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366003002013	10	1	1.5	0.384	1	0	0
Verizon Virginia LLC	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366003002043	10	1	1.5	0.384	1	0	0
Verizon Virginia LLC	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366003002060	10	1	1.5	0.384	1	0	0
Verizon Virginia LLC	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366003002191	10	1	1.5	0.384	1	0	0
Verizon Virginia LLC	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366001001086	10	1	1	0.384	1	0	0
Verizon Virginia LLC	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366003001005	10	1	1	0.384	1	0	0
Verizon Virginia LLC	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366003002014	10	1	1	0.384	1	0	0
Verizon Virginia LLC	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366003002034	10	1	1	0.384	1	0	0
MCI	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366001001012	30	0	0	0	1	3	3
MCI	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366001001019	30	0	0	0	1	1.5	1.5
MCI	Verizon Communications Inc.	131425	Verizon Communications Inc.	VA	510366003002090	30	0	0	0	1	1.5	1.5

Unique Resp ID #	IP Address	Are you a resident of Charles City County?	Primary Address	City	State	ZIP	Does your household currently subscribe to internet service?	If yes, who is your current provider?	What type of internet connection do you currently have?	Please rate your home internet service:	Would you be willing to commit to a 1-year service contract if broadband access was offered to your household?	To enable broadband expansion in your immediate area, would you be willing to pay a small fee (e.g. \$ 2/ month)?	Additional comments to share? Please use the comment box below:
1	174.226.20.5	Yes	5326 Adkins Rd	Providence Forge	Va	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	Depends on speed "Broadband" not very descriptive. I would certainly consider because I have nothing reliable at this time. I must go somewhere to get internet service.
2	99.203.117.105	Yes	9130 Little Elam Rd	Charles City	VA	23030	Yes	Direct Tv	I do not know	POOR: Does not meet any of my needs	Yes	Yes	Please bring broadband, It is needed.
3	72.82.47.154	Yes	8921 Sturgeon Point Rd.	Charles City	VA	23030	Yes	Verizon	Fixed wireless (service from a tower to a small antenna on your house)	ABOVE AVERAGE: Meets most of my needs	No	No	DSL is fine for me now, but with more developments in technology, it will probably become inadequate at some date in the future.
4	108.11.161.40	Yes	7740 Kips Creek Drive	Charles City	VA	23030	Yes		DSL (provided by your landline telephone company)	POOR: Does not meet any of my needs	Yes	Yes	Please do it soon.
5	198.246.136.35	Yes	5580 Cattail Road	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	No	How reliable will your service be?
6	174.255.199.191	Yes	5580 Cattail Road	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
7	174.226.11.254	Yes	15040 Sandy Point Rd	Charles City	Virginia	23030	Yes	Verizon - I use my cell plan for internet access	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	I find it very difficult to operate a home based business without stable high speed internet. It's very frustrating 😞
8	76.104.92.193	Yes	3181 LITTLE BUCK TRL	HENRICO	VA	23231	Yes	AT&T	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
9	174.226.18.75	Yes	7900 Lott Cary Rd	Providence Forge	Virginia	23140	No	N/A	Fixed wireless (service from a tower to a small antenna on your house)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
10	99.203.80.175	Yes	9130 Little Elam Rd	Charles City	Virginia	23030	No	N/A	None	N/A	Yes	Yes	Have tried to get access to internet service but it's either too expensive or not available in my area.
11	174.255.192.65	Yes	8420 Lott Cary Rd	Providence forge	Virginia	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	
12	72.215.153.199	Yes	10010 Barnetts Rd	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	Depending on how reliable and quality
13	174.226.6.245	Yes	4311 cool rd.	providence forge	VA	23140	Yes	Verizon	Fixed wireless (service from a tower to a small antenna on your house)	AVERAGE: Meets some of my needs	Yes	Yes	A lot depend on price . fixed income .ss plus small pension
14	75.170.87.250	Yes	8420 lott cary rd	Providence Forge	VA	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
15	75.170.87.250	Yes	8501 Lott Cary Rd	Providence Forge	VA	23140	Yes	Verizon Wireless	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
16	108.4.113.103	Yes	17701 The Glebe lane	Charles City	Va	23030	Yes	Verizon	DSL (provided by your landline telephone company)	POOR: Does not meet any of my needs	Yes	Yes	

17	173.67.232.27	Yes	4811 Randys Run	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Verizon provides less than par service to my street. I work from home and my days are long and frustrating mostly because of the internet being slow. Had I known the internet would have been this bad, I would have never moved here.
18	65.222.249.194	Yes	15401 The Glebe Lane	Charles City	VA	23030	Yes	Earthlink	DSL (provided by your landline telephone company)	EXCELLENT: Meets all of my needs	Yes	Yes	Looking forward to our residents and business having internet service
19	12.38.7.204	Yes	8114 Courthouse Rd	Providence Forge	VA	23140	Yes	Verizon	DSL (provided by your landline telephone company)	POOR: Does not meet any of my needs	Yes	Yes	Charles City needs faster internet
20	174.226.8.138	Yes	9500 Lott Cary Rd	Providence Firge	VA	23140	Yes	Hughes	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	
21	209.158.217.194	Yes	7220 Lott cary road	Providence forge	Va	23140	No	N/A	None	N/A	Yes	Yes	
22	174.226.19.203	Yes	8580 little Elam road	Charles city	Va	23030	Yes	Hughesnet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	Please bring better internet!!!!
23	208.253.114.166	Yes	7051 Church lane	Charles city	va	23030	No	N/A	None	AVERAGE: Meets some of my needs	Yes	Yes	
24	174.226.3.192	Yes	12827 Sturgeon Point Road	Charles City	VA	23030	No	N/A	None	N/A	Yes	Yes	It would depend on the price.
25	50.207.96.65	Yes	8102 Courthouse Rd	Providence Forge	VA	23140	No	N/A	None	N/A	Yes	Yes	
26	174.226.8.157	Yes	7261 Trevors Road	Charles City	VA	23030	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	
27	174.226.0.172	Yes	3206 The Loop Road	Richmond	Va	23231	No	N/A	None	N/A	Yes	Yes	I need internet so my children can access it especially my 14 year old since you will have alot work online thru Governor school
28	99.203.53.86	Yes	4701 wayside road	Charles City	Virginia	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	
29	107.77.204.68	Yes	4700 Barnetts road	Charles City	Va	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	It is definitely time for Charles City to have a stronger and more reliable internet provider. I have been unable to accept certain employment opportunities due to my slow and spotty internet. Some students are unable to work as independently as others due to poor internet service. The county is ready for additional business opportunities that require a faster and stronger service. We can not afford to miss yet another opportunity to rise and grow as a county.
30	99.203.117.238	Yes	16531 Chickahominy Bluff Road	Williamsburg	VA	23185	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	Is 4G or better in the offering?
31	174.226.1.89	Yes	7853 Courthouse Road	Providence Forge	VA	23140	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	

32	67.44.160.18	Yes	8122 COURTHOUSE ROAD	PROVIDENCE FORGE	Virginia	23140	Yes	Hughesnet and Verizon	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	The sooner the better.
33	174.226.16.141	Yes	9041 Ruthville road	Ruthville	Virginia	23147	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
34	174.226.13.244	Yes	8711 Samaria Lane	Providence Forge	Va	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	N/A	Yes	Yes	
35	174.226.8.141	Yes	7321 Barnetts Road	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	No	Yes	We need better service! It's crazy that in this day and age that just because we live in the sticks that we aren't provided better service! It's worse in the summer when kids are home and everyone's on the Internet! And the fact that Verizon only has a certain amount of "slots" for the amount of people that they can provide Internet to in our area!!!
36	173.67.226.162	Yes	P.O. box 102	Charles City	Virginia	23030	Yes		DSL (provided by your landline telephone company)	POOR: Does not meet any of my needs	Yes	Yes	
37	166.67.66.245	Yes	10150 KIMAGES RD	CHARLES CITY	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
38	99.203.117.152	Yes	7210 wiant Ln	Providence forge	Va	23140	No	N/A	None	EXCELLENT: Meets all of my needs	Yes	Yes	
39	174.226.20.21	Yes	4705 Randys Run	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	Currently we are using Verizon Jet Pack with limited data. It is very expensive. Once we use our data we revert to very slow service. Please work to get us better service
40	174.226.11.44	Yes	4705 Randy's Run	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	We have Verizon jet pack. Very slow if any signal. Limited fast service when we can get the signal if at all. We want a land line connection that would work.
41	107.77.203.79	Yes	10480 Shady Lane	Charles city	Va	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
42	107.77.203.142	Yes	20331 Highbank Ln	Charles City	VA	23030	Yes	AT&T	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	EXCELLENT: Meets all of my needs	Yes	Yes	To clarify question 6: I would only commit to a contract if the broadband service was reliable with better speeds than I currently have at a cost less than I currently pay.
43	70.161.162.193	Yes	10000 Willow Bank Road	Charles City	Virginia	23030	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	When do we get started?
44	174.255.201.5	Yes	9121 w cool Hill rd	Providence Forge	Va	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
45	47.132.220.92	Yes	10030 Dalmation Dr	Charles City	Va	23030	No	N/A	None	N/A	Yes	Yes	
46	108.4.116.242	Yes	6400 LONE EAGLE TRAIL	CHARLES CITY	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	EXCELLENT: Meets all of my needs	No	Yes	We are fortunate to have Verizon DSL and fortunate to be geographically located to the switching station. We would be willing to pay a very small fee in order to help the rest of the County.

47	99.203.116.73	Yes	4101 Wayside Rd	Charles City	Virginia	23030	No	N/A	None	N/A	Yes	Yes	Internet is definitely needed I've been in my home since 2016 and without internet it limits my opportunities for working from home some days and further education possibly. Charles City lacks this and its time for change. Hope this survey is the start to something that is much needed for all residents.
48	67.44.209.56	Yes	3420 the loop road	Richmond	Va	23231	Yes	Hughes net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I feel that we are long overdue for a good dependable internet service I really hate that we are so far behind in everything here hopefully with this internet service we can expand a little & get some businesses & or big name stores in our county to enhance the revenue in this county that's so badly needed...
49	107.77.204.129	Yes	5230 Wayside Rd	Charles City	Va	23030	No	N/A	None	N/A	Yes	Yes	I don't have internet because Verizon isn't available at my location and satellite internet goes out because of everything.
50	174.226.0.120	Yes	8300 lott cary rd	Providence forge	Va	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	I said yes to 1 year contract but it really depends on price. Also terms. Would i be able to cancel if service was awful?
51	174.226.6.96	Yes	5120 Randys Run	Charles city	Virginia	23030	Yes	Hot spot from mobile data	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
52	174.226.18.197	Yes	7600 Lott Cary Road	Providence Forge	VA	23140	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	We need broadband - high speed internet in our area. It is a shame it is taking so long.
53	67.44.209.137	Yes	9400 Holly Tree Lane	Charles City	Va.	23030	Yes	Hughes Net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	I want a reliable internet service, at a reasonable price.
54	174.226.7.123	Yes	6230 Adkins Rd	Providence Forge	VA	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	
55	174.226.9.168	Yes	5421 cattail road	Charles city	VA	23030	No	N/A	None	N/A	Yes	Yes	
56	99.203.53.102	Yes	14530 Wilcox Neck Rd	Charles City	VA	23030	Yes	Sprint	Fixed wireless (service from a tower to a small antenna on your house)	POOR: Does not meet any of my needs	Yes	Yes	
57	174.226.6.160	Yes	3341 Fuqua Farms Dr	Richmond	Va	23231	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
58	174.226.18.188	Yes	8931 Samaria Lane	Providence Forge	Va	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	ABOVE AVERAGE: Meets most of my needs	No	No	
59	71.176.196.147	Yes	8030 Adkins Road	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
60	174.226.5.194	Yes	20720 Old Neck Road	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	
61	108.4.118.251	Yes	16430 Chickahominy Bluff Rd	Williamsburg	Virginia	23185	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	DSL service is very slow and intermittent. Cuts off and on a lot. Would consider more reliable and faster service.

62	67.44.209.23	Yes	10201 Alpine Rd	Providence Forge	Virginia	23140	Yes	HughesNet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
63	174.226.15.160	Yes	5170 Edward Lane	Charles City	VA	23030	No	N/A	None	N/A	Yes	Yes	
64	174.226.19.151	Yes	13511 the Glebe Lane	Charles City County	Virginia	23030	Yes		DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	It must be certain that the new service will ill work better and exist for years. Once I terminate my existing service I will not be able to get it again.
65	107.77.203.181	Yes	4800 barnetts road	Charles City	Virginia	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
66	75.189.152.18	Yes	8501 Samaria Lane	Providence Forge	VA	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	
67	108.4.116.128	Yes	5922 Cattail Rd	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I would hope a year commitment would mean the service would be better than what I have and just as inexpensive.
68	108.4.116.106	Yes	8916 Church Lane	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
69	174.226.0.218	Yes	20340 Highbank Ln	Charles City	VA	23030	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
70	174.226.1.104	Yes	8900 West Cool Hill Road	Providence Forge	Va	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Please help us get broadband!
71	107.77.204.176	Yes	8960 Little Elam Road	Charles City	VA	23030	Yes	Hughes Net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	
72	174.226.0.187	Yes	4715 Cool Hill Rd	Providence Forge	VA	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
73	174.226.21.220	Yes	5091 Adkins Road	Providence Forge	Va	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
74	99.203.53.97	Yes	6421 Church Lane	Charles City	Va	23030	No	N/A	None	N/A	Yes	Yes	
75	73.217.134.188	Yes	12823 Sturgeon Point Rd	Charles City	VA	23030	Yes	Sprint	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	The lack of broadband internet service is a huge problem for Charles City County. A lot of tax payer money has already been wasted with little to show for it. I hope you can do something to help bring Charles City into the 21st century.
76	174.226.3.16	Yes	7940 Adkins Rd	Charles City	Virginia	23030	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	With a middle school student taking Honors classes and myself running a small business from home internet is key. Some days we are completely without for periods of time.
77	174.226.2.191	Yes	9541 Samaria Lane	Providence Forge	VA	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	



78	108.4.113.90	Yes	4801 Charles City Road	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	N/A	No	No	I'm currently with Verizon. My internet service is DSL/router. I have had this service now for about 11 yrs.
79	107.77.202.44	Yes	10380 alpine road	Providence forge	Va	23140	Yes	AT&T	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	With regard to question 6, my willingness to commit depends on the price
80	68.110.153.195	Yes	20000 The Glebe Lane	Charles City	Virginia	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
81	184.62.62.45	Yes	4900 Fishsticks Lane	Providence Forge	VA	23140	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I am deeply disappointed by our internet service. Both my husband and I have telework options but are unable to telework from our home due to the poor internet service. We are seriously considering moving out of the area for this reason.
82	107.77.204.4	Yes	Street 1	Charles city	Va	23140	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
83	71.246.148.184	Yes	10631 shady lane	Charles City	Va	23030	Yes	Dish	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	
84	174.226.0.29	Yes	11210 Weyanoke Rd	Charles City	Va	23030	No	N/A	None	POOR: Does not meet any of my needs	Yes	Yes	
85	174.255.198.6	Yes	8340 Graves Landing Rd	Charles City	Virginia	23030	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	In today's world internet is important and in our county with the poor cell phone reception it is even more important. I pay over \$200 for internet that is not reliable all the time. I don't have cell phone service at my house and need to drive almost a mile before I get any reception. Internet is needed in our county
86	174.204.16.121	Yes	11404 Weyanoke Road	Charles City	VA	23030	No	N/A	None	N/A	Yes	Yes	
87	67.44.208.11	Yes	11911 Wilcox Neck Rd	Charles City	VA	23030	Yes	Hughesnet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	My wife telecommutes with poor results. Can't stream anything. County really needs this basic utility for both businesses and all CCC citizens. Lack of good internet service is holding the county back in a big way. Let's do what it takes. Contact me anytime. John Holtzclaw.
88	71.176.197.50	Yes	12841 Oakwood Road	Providence forge	Va	24140	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	No	No	
89	174.255.194.84	Yes	5400 Hidden Hilltop Dr	Charles City	Virginia	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
90	107.77.241.49	Yes	4221 Old Holly Hills Rd	Charles City	Virginia	23030-2279	Yes		DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Having access to high speed internet is very important. Charles City should not be left behind when other rural areas have access to broadband. I would support paying a tax to help bring high speed internet to the area.

91	174.226.1.206	Yes	7620 courthouse rd	Providence forge	Va	23140	Yes		DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I have DSL through Verizon and I am at the end of an extension so I'm told. We get the scraps from everyone else. It's very slow and unreliable sometimes it won't work at all.
92	72.82.46.180	Yes	4221 Old Holly Hills Rd	Charles City	Virginia	23030-2279	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I believe that having access to broadband internet is very important. Charles City should not be left behind when other rural areas in Virginia have access to high speed internet. I currently have DSL, but it is often unreliable and very expensive. I understand that neither Verizon or Comcast are willing to invest the money to build the necessary infrastructure for high speed internet, but I'm willing to bet that most residents would pay a tax for the opportunity to have broadband.
93	68.10.128.242	Yes	7200 Ruthville Road	Providence Forge	VA	23140	Yes	Hughes	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
94	100.4.1.254	Yes	20450 Holly Pines Lane	Barhamsville	VA	23011	Yes		DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Many days we have no internet. I can't do business here reliably. We can't do normal activities that are taken for granted by the majority of citizens.
95	184.62.83.172	Yes	6041 Greenyard estates lane	Providence forge	Virginia	23140	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
96	107.77.204.185	Yes	20870 Old Neck Rd	Charles City	VA	23030	Yes	AT&T wireless	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	We only have 1 option for internet service (AT&T wireless). The performance is very poor (slow & get dropped frequently). It makes it very difficult to conduct business (consultant) from home. If the county wants to grow the population and tax base, reasonable internet connect is a MUST (not an option).

97	72.82.46.180	Yes	4221 Old Holly Hills Road	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I would rather not pay for Verizon since the service they provide gets worse as the years go on. We signed up when it first became available in our area years ago but we pay as much for it as most people pay for Fios. The connection works sometimes, but the last 2 years it has been unreliable for the most part, I hate to sound as if I am complaining since I know how fortunate I am to have anything other than wireless or a satellite, but the reality is 2 star service for a 5 star price. Verizon is the monopoly for the market down here and they know it so it is my opinion that they take advantage of that fact by not trying to offer anything better. Also, we are able to get DSL but the people at the end of my road are not able to even though they are 2 houses down from us, which makes no sense to me because they tried to sign up at the same time I did. I will say one positive thing about DSL and that is there are no data restrictions and I have unlimited instead of a 5 gig a month limit or something comparable.
98	72.82.44.225	Yes	18500 cottage gate dr	Charles city	Va	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
99	64.52.103.21	Yes	9460 Little Elam Rd	Charles City	Va	23030	No	N/A	None	N/A	Yes	Yes	It would be very helpful for the kids to have internet.
100	72.82.42.164	Yes	4711 Randy's Run	Charles City	Va	23030	Yes		DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
101	71.176.200.48	Yes	11521 Green Oak Rd	Providence Forge, VA	VA	23140	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
102	174.226.11.242	Yes	waymacks rd	Charles city	Virginia	23030	Yes	Verizon mifi	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
103	174.226.10.206	Yes	20340 old neck road	Charles City	VA	23030	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
104	174.226.14.6	Yes	4641 Piney Tree Lane	Charles City	VA	23030	No	N/A	None	N/A	Yes	Yes	We need internet for our kids schooling and work but there's nothing available.
105	67.44.160.55	Yes	18301 The Glebe Lane	Charles City	Virginia	23030	Yes	Hughes. Net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	I operate a business here at home and DSL would not work so I went to Hughes net and that is not much better.
106	173.67.232.240	Yes	7650 Kips Creek Dr	Charles City	VA	23030	Yes	Verizon DSL	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
107	184.62.116.100	Yes	5220 Adkins Rd	Providence Forge	VA	23140	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	
108	67.44.160.55	Yes	18301 The Glebe Lane	Charles City	Va	23030	Yes		Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	We use internet for both home needs AND a business.

109	174.226.11.246	Yes	10101 Alpine Rd	Providence Forge	Virginia	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	No	
110	67.44.208.95	Yes	3641 fishers run	Henrico	Va	23231	Yes	Hughes net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	We need this so bad!
111	107.77.203.79	Yes	10501 Shady Lane	Charles City	Va	23030	Yes	Dish	Cable modem (provided by your cable TV provider)	POOR: Does not meet any of my needs	Yes	Yes	
112	107.77.204.151	Yes	6241 old union rd	CHARLES CITY	VA	23030	Yes	at&t	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	I see orange poles (fiber) all up and down the road yet NO service and while I know I am new to the area NO ONE seems to know who the poles belong to. We are getting this huge solar plant put in our backyard with ZERO benefit to us (just a bunch of promises) - all I want to do is have internet available like every one else and get out of the stone age. Satellite internet is horrible latency for business and working from home. And cellular service is poor to fair on a good day.
113	174.226.9.115	Yes	7604 Lott Cary Road	Providence Forge	Virginia	23140	Yes	Verizon (Mifi hotspot)	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	Reliable internet service is desperately needed.
114	174.226.17.108	Yes	14221 Sandy Point Road	Charles City	Va	23181	No	N/A	None	N/A	Yes	Yes	We would like to have broadband in our country thanks.
115	107.77.202.35	Yes	5525 N. Warriner Road	Richmond	VA	23231	Yes	Hughes Net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
116	174.226.132.191	Yes	7261 Trevors Rd.	Charles City	VA	23030	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
117	107.77.204.36	Yes	4700 Barnetts Rd	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
118	173.67.224.145	Yes	7620 Courthouse Road	Providence Forge	Va	23140	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
119	174.226.2.214	Yes	8523 Samaria lane	Providence forge	Va	23140	Yes		I do not know	AVERAGE: Meets some of my needs	Yes	Yes	
120	47.35.240.57	Yes	5900 Irish Yard Ct	Providence Forge	VA	23140	Yes	Hughes Net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
121	174.226.19.133	Yes	12827 Sturgeon Point Rd	Charles City	Virginia	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	I answered yes to #6 without knowing what the cost will be. Cost will be a factor.
122	73.147.213.18	Yes	9001 little Elam road	Charles city	Va	23030	No	N/A	None	POOR: Does not meet any of my needs	Yes	Yes	
123	174.226.15.115	Yes	8710 Little Elam Rd	Charles City	Ba	20303	Yes	Dish network	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	
124	174.255.199.18	Yes	8231 courthouse rd	Providence forge	VIRGINIA	23140	Yes	Verizon's	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	I signed up for broadband years ago nothing ever happened is this going to be the same way
125	174.226.1.14	Yes	6021 Greenyard Estates Ln	Providence Forge	Virginia	23140	No	N/A	None	N/A	Yes	Yes	
126	99.203.53.254	Yes	10300 courthouse rd	Charles city	Va	23030	Yes		Cable modem (provided by your cable TV provider)	POOR: Does not meet any of my needs	Yes	Yes	Need Internet service for cell phone and house

127	174.226.14.155	Yes	8122 Little Elam Road	Charles City	Va	23030	Yes		I do not know	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
128	174.226.3.87	Yes	8221 Courthouse Road	Providence Forge	VA	23140	No	N/A	None	POOR: Does not meet any of my needs	Yes	Yes	
129	174.226.14.23	Yes	13101 Wilcox neck Road	Charles city	Virginia	23030	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	
130	107.77.203.27	Yes	4111 Perks Lane	Charles City	Virginia	23030	Yes	HughesNet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	
131	174.226.10.97	Yes	4800 Haults Lane	Charles City	Va	23231	Yes		Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
132	174.226.6.5	Yes	13101 Wilcox Neck rd	Charles City	VA	23030	Yes		Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	PLEASE , JUST BRING SOMETHING FAST AND AS SOON!!
133	72.82.48.194	Yes	4765 West Run Road	Charles City	Vieginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	Price total for installing and monthly would also be a factor.
134	67.44.160.184	Yes	18700 The Glebe Lane	Charles City	Virginia	23030	Yes	Hughes Net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
135	71.176.194.57	Yes	10844 Courthouse Rd	Charles City	Va	23030	Yes	Verizon	DSL (provided by your landline telephone company)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	
136	67.44.160.184	Yes	18700 The Glebe Lane	Charles City	Virginia	23030	Yes	HughesNet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
137	174.226.19.101	Yes	18704 the glebe lane	Charles city	Virginia	23030	No	N/A	None	POOR: Does not meet any of my needs	Yes	Yes	
138	174.226.4.226	Yes	6331 Algonquin Trail	Providence Forge	VA	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	Depends on total cost of service
139	99.203.52.171	Yes	8450 Courthouse Rd.	Providence Forge	VA	23140	No	N/A	None	N/A	Yes	Yes	
140	174.226.1.227	Yes	4426 Cool Hill rd	Providence Forge	Va	232140	Yes		Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	I believe that it is a disservice to the residents of Charles City to not offer any a respectable internet service. A lot of the residents work from home and their lively hoods are effected, including mine.
141	172.58.157.223	Yes	16200 Blue Cat way	Williamsburg	Va	23185	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	We need internet for school and work. Currently use our cell phones but it is unreliable and we run out of data.
142	70.105.61.28	Yes	4401 West Run Road	Charles City	Ba	23030	Yes	Verizon	DSL (provided by your landline telephone company)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	I hope the service will be improved and all citizens will have internet service county wide
143	99.203.117.62	Yes	9101 Little Elam Rd	Charles City	VA - Virginia	23030-3177	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	No	Yes	
144	174.226.3.129	Yes	4821 Barnett rd	Charles city	Va	23030	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
145	174.248.46.24	Yes	4000 Adkins rd	Providence forge	Va	23140	Yes	Verizon	DSL (provided by your landline telephone company)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	

146	99.203.52.213	Yes	6120 Adkins rd	Providence forge	Va	23140	No	N/A	None	N/A	Yes	Yes	Just get Comcast through the county we would have had internet by now instead of wasting all that money on towers that barley work and take sbc to court make them pay back since they didn't use due diligence when assessing the area for proper disperseing of the wifi stuff they offered
147	174.226.19.9	Yes	8331 Courthouse Road	Providence Forge	Va	23140	No	N/A	None	POOR: Does not meet any of my needs	Yes	Yes	
148	174.226.7.22	Yes	5000 Randy's Run	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	No	Yes	
149	67.44.209.139	Yes	13431 Wilcox neck road	Charles City	Va	23030	Yes	Verizon landline, wireless and hughes net	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
150	107.77.204.17	Yes	9000 Church Lane	Charles City	VA	23030	Yes	Verizon	Dial-up	AVERAGE: Meets some of my needs	No	No	
151	174.226.2.14	Yes	5201 Pleasant Ridge Dr	Providence Forge	Va	23140	Yes	Verizon air card	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
152	174.226.7.150	Yes	7380 Sturgeon Point Rd	Providence Forge	Va	23140	Yes	Verizon phone line (cell phone service)	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I would be willing to commit to a fee only if specific quality of service provisions were part of the service or contract. I am unwilling to pay any fees or subscribe to any service or provider of internet that does not provide some guarantee of coverage, speed, accessibility, etc.
153	174.193.17.203	Yes	6320 Barnetts Rd	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	
154	174.226.11.166	Yes	6710 Salem Heights Dr	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
155	107.77.204.155	Yes	9740 Infantry Walk	Charles City	Va	230303	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
156	68.142.177.148	Yes	8500 Gilfield Ln	Charles City	Virginia	23030	No	N/A	None	POOR: Does not meet any of my needs	Yes	Yes	Literally anything is better than what we have now. Might as well send smoke signals or throw rocks
157	71.176.194.235	Yes	5401 cattail rd	Charles city	Va	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	No	No	
158	174.226.2.98	Yes	5410 Adkins rd	Providence forge	Va	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
159	107.77.204.136	Yes	6241 Old Union Rd	Charles City	Charles CityVA	23030	Yes		Cable modem (provided by your cable TV provider)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
160	174.226.5.190	Yes	2880 Olde Beech Hollow Road	Charles City	VA	23010	Yes	HughesNet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
161	99.203.117.162	Yes	9104 the new road	Charles city	Va	22030	No	N/A	None	POOR: Does not meet any of my needs	Yes	Yes	
162	75.197.161.154	Yes	10125 Dalmation drive	Charles City	Virginia	23030	Yes	verizonwireless	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	

163	107.77.203.77	Yes	5311 N. Warriner Road	Henrico	VA	23231	No	Hotspot on my mobile phone - AT&T	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	N/A	Yes	Yes	
164	108.4.120.146	Yes	8421 Lewis Tyler lane	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Make sure it works.
165	174.226.16.76	Yes	7241 Adkins Road	Charles City	VA	23030	Yes		Fixed wireless (service from a tower to a small antenna on your house)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	We have good internet service now. However, that took almost \$900 to initially get and we pay \$150 a month. It would be nice for Charles City to have better options than what we currently have. Before we installed the wireless broadband system we had to exceed and that absolutely sucked
166	174.226.15.55	Yes	6600 Woods Run Rd.	Charles City	Va	23030	No	N/A	None	N/A	Yes	Yes	The only thing we have been offered is satellite service and you pay alot for and still have no service
167	72.82.46.209	Yes	20000 MORRIS CREEK LANDING RD	CHARLES CITY	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	Need more information
168	172.58.159.216	Yes	11327 Wilcox neck Rd	Charles City	Va	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
169	141.166.176.240	Yes	14860 Cypress Bank Road	Providence Forge	VA	23140	No	N/A	None	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I am currently a part-time resident of my home in Charles City County. The #1 thing that prevents me from full-time residency is the lack of un-metered high speed internet. Currently I use my phone as a mobile hot-spot but since it is a metered connection it's not conducive for full time living in the manner I use the internet.
170	208.81.185.26	Yes	6710 Church Lane	Charles city	VA	23030	Yes	Hughesnet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
171	174.226.10.219	Yes	4811 Randy's run	Charles city	Va	23030	Yes	Verizon DSL	DSL (provided by your landline telephone company)	POOR: Does not meet any of my needs	Yes	Yes	
172	67.44.160.168	Yes	6681 Salem Pines Trail	Charles City	VA	23030	Yes	HughesNet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	Would see if it works, but over the air internet would probably be just as bad as my verizon cell service. Was told by Comcast they could run anywhere in the county. That was 3+ years ago. Would be over joyed to have it. The line ends on Cattail about as 1 mile from here. Also runs down Barnetts even closer. Guess our small stretch isn't important enough.
173	174.226.5.142	Yes	20201 The Glebe lane	Charles City	Va	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	Please get broadband in our area
174	173.67.225.178	Yes	17041 The Glebe Lane	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
175	174.226.15.44	Yes	8930 Ruthville Rd	Ruthville	VA	23147	No	N/A	None	N/A	Yes	Yes	

176	216.54.24.25	Yes	5840 Tonkas Trail	Charles City	VA	23030	Yes		DSL (provided by your landline telephone company)	POOR: Does not meet any of my needs	Yes	Yes	DSL that is currently is offered is so slow and gets interrupted daily. It is slows down at peak times so must you cant get pages to load. I cant even get a ring door bell or cell phone extender at my home because it needs higher speed internet. I am taking classes online and have to go somewhere to take them. We are working on starting a business and need to move it to New Kent because Charles City doesn't supply internet to run a business with in my area.
177	184.20.0.255	Yes	14314 Sandy Point Rd	Charles City	VA	23030	Yes	Dish Satellite	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
178	99.203.117.54	Yes	7055 church lane	Charles city	Va	23039	Yes	Hughes net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
179	174.226.3.163	Yes	4611 Roxbury Rd	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
180	107.77.203.78	Not yet, but I am looking to move to the County	15351 Kent Pointe Ln	Lanexa	Va	23089	Yes	ATT	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	
181	72.82.44.183	Yes	4420 Charles City Rd.	Charles City	Va	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	All depends on speed and quality of service etc.
182	173.67.232.17	Yes	5440 Roxbury Road	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
183	216.12.61.5	Yes	9080 Little Elam Rd	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	In order for Charles City County to grow and thrive it must be fully equipped with broadband service throughout the county. School, housing values, business growth and development all suffer from this lack of internet service. Please ensure this survey gets to all county residents.
184	107.77.202.155	Yes	5226 N Warriner Rd	Richmond	Virginia	23231	Yes	SCS Broadband	Fixed wireless (service from a tower to a small antenna on your house)	N/A	Yes	No	Having spent several thousand dollars to become one of the few households to be served by broadband access, no willing to pay a monthly fee to continue
185	72.82.45.232	Yes	6100 Barnetts Road	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
186	174.226.3.175	Not yet, but I am looking to move to the County	3073 portugee rd	Sandston	Va	23150	Yes	Xfinity	Cable modem (provided by your cable TV provider)	ABOVE AVERAGE: Meets most of my needs	Yes	Yes	
187	174.226.20.61	Yes	4802 Warriner Road	Richmond	VA	23231	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Total cost of internet service would determine whether or not we could subscribe. We can not afford much at all.
188	174.226.12.132	Yes	3601 wayside Rd	Charles city	VA	23030	Yes		Cable modem (provided by your cable TV provider)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Have service. It drops, is slow and minimum mps
189	71.176.199.235	Yes	7789 Kips Creek Drive	Charles City	VA	23030	Yes	Verizon briadband	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	



190	65.222.249.194	Yes	5740 Barnetts Road	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
191	107.77.204.126	Yes	10821 shady ln	Charles	Ca	23030	Yes	Att	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	EXCELLENT: Meets all of my needs	No	No	Broadband will be antiquated soon in most forms.
192	174.226.16.85	Yes	4100 Perks Lane	Charles City	VA	23030	Yes	Verizon Wireless Card	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	I would pay extra to be able to get high speed internet.
193	107.77.202.202	Yes	5761 Johnnies Way	Charles City	Va	23030	No	N/A	None	N/A	Yes	Yes	
194	99.203.52.18	Yes	9441 Samaria lane	Providence forge	Va	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	When been waiting for years for internet. No area should not have access to basic things such as internet in 2019
195	107.77.203.66	Yes	9600 The New Road	Charles City	VA	23030	Yes	ATT	DSL (provided by your landline telephone company)	POOR: Does not meet any of my needs	Yes	Yes	
196	174.226.3.225	Yes	19120 The Glebe Lane	CHARLES CITY	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	No	I work from home and my husband is a college student, because there is a lack of reliable connectivity in Charles City, we are very seriously considering moving. We love the quiet rural community, but it's hindering my ability to earn a paycheck and his ability to complete his degree.
197	174.226.2.6	Yes	5201 Kizzie Rd	Providence Forge	Va	23140	No	N/A	None	N/A	Yes	Yes	
198	208.87.234.202	Yes	11850 Canora Lane	Charles City	Virginia	23140	Yes	verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Internet is greatly needed in the county our children don't have access to the learning tools that other cities or counties have.
199	174.53.74.63	Yes	7211 Barnetts rd	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
200	174.226.0.139	Yes	19103 Cypress Springs Ct	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
201	12.118.17.98	Yes	3901 Warriner Rd	Richmond	Va	23231	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	Internet service would greatly enhance our families ability for school and work requirements.
202	73.152.200.254	Yes	10120 Alpine rd	PROVIDENCE FRG	Virginia	23140	Yes	Hughes	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
203	108.4.113.170	Yes	19103 Cypress Springs Court	Charles City	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
204	73.148.19.242	Yes	5601 pleasant ridge dr	Providence forge	Va	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	We can barely make phone calls, I work from home and it's just awful. We are in 2019, we should be able to get good internet anywhere. One of my biggest disappoints living in Charles city, specially with all the small business and farms in Charles city, we all need internet. We can't no get really any internet at our house currently.
205	67.44.160.184	Yes	18700 The Glebe Lane	Charles City	VA	23030	Yes	HughesNet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	Hurry up broadband internet! ☹️

206	174.226.0.24	Yes	10401 Wilcox Neck Rd	Charles City	VA	23030	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
207	174.226.4.144	Yes	5813 Monguy Rd	Charles City	Va	23030	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
208	174.226.10.15	Yes	5733 Charles City Rd	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	Currently we use cell data only.. We do have a router from Verizon so that our laptops and printer also work but it is just date and it is expensive. The household data is not unlimited either meaning we can't stream anything.. I would LOVE to have a real internet option
209	107.77.204.219	Yes	5600 Pleasant Ridge Dr	providence forge	Va	23149	Yes		Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	EXCELLENT: Meets all of my needs	Yes	Yes	
210	99.203.117.149	Yes	7530 Lewis Tyler Lane	Charles City	VA	23030	Yes		DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I would need to see exactly what is offered regarding broadband and the price before signing any contracts. A free trial of the service should be offered before requiring a contract be signed.
211	174.226.20.80	Yes	9040 W. Cool Hill Rd	Providence Forge	Va.	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	PLEASE PLEASE PLEASE get us INTERNET that we can afford!!!!!!
212	107.77.202.106	Yes	3621 Adkins Road	Providence Forge	VA	23140	Yes	BOIP & Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
213	174.226.8.139	Yes	5303 N Warriner Road	Richmond	Va	23231	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	
214	72.218.223.141	Yes	18203 Sandy Point Road	Charles Ciry	VA	23030	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
215	174.226.10.152	Yes	4130 perks ln	Charles City	VA	23020	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
216	96.84.237.110	Yes	6421 Cattail Rd	Charles City	Va	23030	Yes	Hughesnet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
217	72.84.250.11	Yes	5811 Monguy Road	Charles City	vA	23030	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
218	107.77.203.66	Yes	5233 Wayside Rd	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	No	It would depend on how much this is Going to cost. On a very fixed income.
219	216.12.61.5	Yes	4902 Roxbury Rd	Charles City	Va	23030	Yes	Verizon mifi	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
220	96.238.160.105	Yes	12470 Payne Estates Ct	Charles City	Va	23030	Yes		DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	

221	65.222.249.194	Yes	7731 Lott Cary Road	Providence Forge	VA	23140	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
222	174.226.17.149	Yes	4821 Adkins Road	Providence Forge	Virginia	23140	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
223	216.12.61.5	Yes	5760 Johnnies Way	Charles city	Virginia	23030	Yes	Viasat	Fixed wireless (service from a tower to a small antenna on your house)	POOR: Does not meet any of my needs	Yes	Yes	
224	99.203.53.100	Yes	15431 The Glebe lane	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
225	128.172.48.210	Yes	8400 New Quarter Rd	Charles City	VA	23030	Yes	Hughes Net	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
226	107.77.202.141	Yes	17981 the Glebe Lane	Charles City	VA	23030	Yes	Hot-spot provided by our cellphone	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
227	174.229.0.70	Yes	12500 Eagles Nest Road	Charles City	Virginia	23030	No	N/A	None	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
228	99.203.116.156	Yes	6621 woods run rd	Charles city	Va	23020	No	N/A	None	N/A	Yes	Yes	
229	71.176.198.35	Yes	19501 Turk Dr	Charles City	Virginia	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	Yes	Yes	
230	74.109.217.12	Yes	12500 Eagles Nest Rd	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	I am a brand new resident coming from a metropolitan area and already struggling with questions as to how I will do business with the limited internet options. I understand that I live in a very remote location within the county, but in this high-speed, high-tech world I was surprised at how limited the options are. Would love to see an advancement in the area and would be willing pay a fee for improved service. Thank you!
231	75.107.175.32	Yes	13403 Sandy Point Rd.	Charles City	VA	23030	Yes	Viasat	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Broadband internet would be a HUGE benefit for the students and children in Charles City. They are currently being extremely limited in the ability to learn and develop academically that other students are able to utilize. Being 2019, it is astonishing that this is still an issue for our area. I hope and pray that something will be offered sooner than later to help educate our students in Charles City.
232	99.203.53.166	Yes	14530 Wilcox Neck road	Charles City	Va	23030	Yes	Sprint	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	My service is not unlimited(which poses a huge problem). My daughter takes online classes and I sometimes have to work from home. I am willing to pay whatever at this point for an unlimited service that will provide a good speed for service.
233	68.15.158.4	Yes	10030 Dalmatian Dr	Charles City	Va	23030	Yes		Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	

234	38.101.186.130	Yes	12122 10101 BARNETTS RD	CHARLES CITY	VA	23030	Yes	Verizon	DSL (provided by your landline telephone company)	POOR: Does not meet any of my needs	Yes	Yes	
235	96.238.184.21	Yes	3905 Warriner rd	Richmond	Va	23231	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	
236	99.203.53.208	Yes	12120 John Tyler Memorial Hwy	Charles city	Va	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	EXCELLENT: Meets all of my needs	No	Yes	
237	99.203.52.169	Yes	11903 The Glebe Ln.	Charles City	Va	23030	No	N/A	None	N/A	Yes	Yes	It would just be a huge blessing to have the ability to have adequate internet access in the community in which I live.
238	38.140.18.221	Yes	10660 Harrison Lake Drive	Charles City	VA	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
239	71.246.148.11	Yes	4941 Old Union Rd	Charles City	Virginia	23030	Yes	Verizon DSL and it SUCKS	DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Would love to have something that would work well. Charles City is so over looked .
240	54.90.47.113	Yes	8103 South Lott Cary Road	PROVENCE FRG	Virginia	23140	Yes	Verizon	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	
241	174.226.14.196	Yes	7180 Adkins Rd	Charles city	Va	23030	Yes	BOIP	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	AVERAGE: Meets some of my needs	Yes	Yes	
242	107.77.203.77	Yes	11600 Weyanoke road	Charles City	Va	23039	Yes		Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	AVERAGE: Meets some of my needs	Yes	Yes	
243	174.255.193.199	Yes	11903 The Glebe Lane	Charles City County	Virginia	23030	No	N/A	None	N/A	Yes	Yes	
244	174.226.6.247	Yes	4960 Fishsticks In	Providence Forge	Va	23140	Yes	Hughesnet	Satellite (providers such as Viasat/ Excede, DirectTV, Dish, or HughesNet)	POOR: Does not meet any of my needs	Yes	Yes	We good and reliable internet. 100% all for it.
245	174.226.10.133	Yes	5131 Old Union road	Charles City	Virginia	23030	No	N/A	Cellular (cell phone or similar device: e.g. tablet/ iPad used to access the internet)	POOR: Does not meet any of my needs	Yes	Yes	It's.been needs for years, unsure why this isn't happening.
246	73.177.241.85	Yes	4901 Roxbury rd	Charles City	Virginia	23030	No	N/A	None	N/A	Yes	Yes	
247	173.67.226.162	Yes	11200 watermelon field rd	Charles City	Va	23030	Yes		DSL (provided by your landline telephone company)	BELOW AVERAGE: Meets few of my needs	Yes	Yes	Critical infrastructure need for the community!
248	8.22.196.33	Yes	8421 Lewis Tyler Lane	Charles City	Va	23030	Yes	Verizon	DSL (provided by your landline telephone company)	AVERAGE: Meets some of my needs	No	Yes	
249	72.82.48.34	Yes	7211 Barnetts rd	Charles city	Va	23030	Yes	Verizon	I do not know	AVERAGE: Meets some of my needs	Yes	Yes	
250	50.205.217.114	Yes	9072 Kimages Road	Charles City	Va	23030	Yes		Fixed wireless (service from a tower to a small antenna on your house)	POOR: Does not meet any of my needs	Yes	Yes	

## RICHMOND, CHESTERFIELD & CAROLINE COUNTY

### BUNDLED PACKAGES<sup>1,2</sup>

#### QUAD PLAY PACKAGES

QUAD PLAY PACKAGE PRICING BELOW IS ADDITIONAL TO TRIPLE PLAY PACKAGE PRICING

with Xfinity Home Security add <sup>40</sup>	\$39.95
with Xfinity Home Security Plus add <sup>41</sup>	\$49.95

#### TRIPLE PLAY PACKAGES<sup>39</sup>

##### Standard Triple Play

Includes Limited Basic, Kids & Family, Entertainment, Sports & News and HD programming for primary outlet, 10 Hour DVR Service, Performance Pro Internet and Voice Unlimited

	\$129.99
- with Blast! Internet upgrade add	\$20.00
- with Extreme Pro Internet upgrade add	\$25.00
- with Gig Internet upgrade add	\$30.00
- with Gig Pro Internet upgrade add <sup>21</sup>	\$238.00

##### Select Triple Play

Includes Limited Basic, Kids & Family, Entertainment, Sports & News, Digital Preferred Tier, DVR Service and HD programming for primary outlet, Blast! Internet, and Voice Unlimited

	\$149.99
- with Extreme Pro Internet upgrade add	\$25.00
- with Gig Internet upgrade add	\$30.00
- with Gig Pro Internet upgrade add <sup>21</sup>	\$238.00

##### Signature Triple Play<sup>36</sup>

Includes Limited Basic, Kids & Family, Entertainment, Sports & News, Digital Preferred Tier, Showtime, Starz, Streampix, DVR Service and HD programming for primary outlet, Extreme Pro Internet, Voice Unlimited and Netflix Standard HD Plan

	\$169.99
- with Netflix Premium UHD Plan upgrade add	\$3.00
- with Gig Internet upgrade add	\$30.00
- with Gig Pro Internet upgrade add <sup>21</sup>	\$238.00

##### Super Triple Play<sup>36</sup>

Includes Limited Basic, Kids & Family, Entertainment, Sports & News, Digital Premier Tier, Sports Entertainment Package, Streampix, DVR Service and HD programming for primary outlet, Gigabit Internet, Voice Unlimited, Netflix Standard HD Plan

	\$199.99
- with Netflix Premium UHD Plan upgrade add	\$3.00
- with Gig Pro Internet upgrade add <sup>21</sup>	\$238.00
- with Xfinity Mobile deduct	-\$12.00

#### DOUBLE PLAY PACKAGES<sup>39</sup>

##### Choice Double Play<sup>37</sup>

Includes Choice TV, 10 Hour DVR Service and Performance Plus Internet

	\$89.99
- with Performance Pro Internet upgrade add	\$15.00
- with Blast! Internet upgrade add	\$20.00
- with Extreme Pro Internet upgrade add	\$25.00
- with Gig Internet upgrade add	\$30.00
- with Gig Pro Internet upgrade add <sup>21</sup>	\$238.00

##### Standard Double Play

Includes Limited Basic, Kids & Family, Entertainment, Sports & News, 10 Hour DVR Service, and HD programming for primary outlet and Performance Pro Internet

	\$109.99
- with Blast! Internet upgrade add	\$20.00
- with Extreme Pro Internet upgrade add	\$25.00
- with Gig Internet upgrade add	\$30.00
- with Gig Pro Internet upgrade add <sup>21</sup>	\$238.00

#### Select Double Play

Includes Limited Basic, Kids & Family, Entertainment, Sports & News, Digital Preferred Tier, HD programming for primary outlet, 10 Hour DVR Service and Performance Pro Internet

	\$119.99
- with Blast! Internet upgrade add	\$20.00
- with Extreme Pro Internet upgrade add	\$25.00
- with Gig Internet upgrade add	\$30.00
- with Gig Pro Internet upgrade add <sup>21</sup>	\$238.00

#### Signature Double Play<sup>36</sup>

Includes Limited Basic, Kids & Family, Entertainment, Sports & News, Digital Preferred Tier, HD programming, Showtime, Starz and Streampix for primary outlet, 10 Hour DVR Service, Performance Pro Internet and Netflix Standard HD Plan

	\$139.99
- with Netflix Premium UHD Plan upgrade add	\$3.00
- with Blast! Internet upgrade add	\$20.00
- with Extreme Pro Internet upgrade add	\$25.00
- with Gig Internet upgrade add	\$30.00
- with Gig Pro Internet upgrade add <sup>21</sup>	\$238.00

#### Super Double Play<sup>36</sup>

Includes Limited Basic, Kids & Family, Entertainment, Sports & News, Digital Premier Tier, HD programming and Streampix for primary outlet, 10 Hour DVR Service, Blast! Internet and Netflix Standard HD Plan

	\$169.99
- with Netflix Premium UHD Plan upgrade add	\$3.00
- with Extreme Pro Internet upgrade add	\$25.00
- with Gig Internet upgrade add	\$30.00
- with Gig Pro Internet upgrade add <sup>21</sup>	\$238.00

## XFINITY TV<sup>1</sup>

#### BASIC SERVICES

Limited Basic <sup>9</sup>	\$22.95
Broadcast TV Fee <sup>27</sup>	\$10.00
Expanded Basic <sup>11</sup>	\$44.32

#### XFINITY TV SERVICES

Choice TV <sup>33</sup> Includes Limited Basic, Streampix and HD programming	\$30.00
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#### Genre Packs<sup>34</sup> Choose up to 2 packs

<b>Kids &amp; Family</b> Includes kid and family-friendly channels including Cartoon Network, Disney Channel, Nickelodeon and Universal Kids	\$10.00
<b>Entertainment</b> Includes entertainment channels including A&E, AMC, Bravo, Food Network, FX, TNT and VH1	\$15.00
<b>Sports &amp; News</b> Includes sports and news channels including CNBC, CNN, ESPN, Golf, MSNBC and NBC Sports	\$28.25

<b>Digital Starter</b> Includes Limited Basic, Expanded Basic for primary outlet, additional digital channels, MoviePlex, access to Pay-Per-View and On Demand programming and Music Choice	\$67.27
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<b>Digital Preferred Tier<sup>16</sup></b> Includes over 65 channels including CBS College Sports, Destination America, Disney XD, Encore and Science Channel	\$17.95
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<b>Digital Preferred Tier plus One Premium</b> Includes Digital Preferred Tier and choice of Showtime <sup>®</sup> , Starz <sup>®</sup> , Cinemax <sup>®</sup> , or The Movie Channel <sup>®</sup>	\$29.95
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<b>Digital Preferred Tier with HBO<sup>®</sup></b> Includes Digital Preferred Tier and HBO <sup>®</sup>	\$32.95
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<b>Digital Premier Tier</b> Includes Digital Preferred Tier, HBO <sup>®</sup> , Showtime <sup>®</sup> , Starz <sup>®</sup> , Hitz, and The Movie Channel <sup>®</sup>	\$64.95
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<b>Sports Entertainment Package<sup>16</sup></b> Includes over 15 channels including NFL Red Zone and CBS Sports Network	\$9.95
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<b>Deportes<sup>11</sup></b> Includes over 6 deportes channels including ESPN Deportes, FOX Deportes and NBC Universo	\$7.00
<b>With Choice Double Play or Standard, Select, Signature, Super Double or Triple Play Packages</b>	\$5.00
<b>Xfinity TV Latino <sup>11</sup></b> Includes over 50 channels of Spanish language programming	\$17.95
<b>With Choice Double Play or Standard, Select, Signature, Super Double or Triple Play Packages</b>	\$10.00
<b>HBO<sup>®11</sup></b>	\$15.00
<b>Showtime<sup>®11</sup></b>	\$12.00
<b>Starz<sup>®11</sup></b>	\$12.00
<b>Cinemax<sup>®11</sup></b>	\$12.00
<b>The Movie Channel<sup>®11</sup></b>	\$12.00
<b>Epix<sup>32</sup></b>	\$5.99
<b>Playboy<sup>®11</sup></b>	\$15.00
<b>HD Technology Fee<sup>10</sup></b>	\$9.95
<b>DVR Service<sup>12,15</sup></b>	\$10.00
<b>AnyRoom DVR Service<sup>3,16</sup></b>	\$10.00
<b>Service to Additional TV<sup>14</sup></b>	\$9.95
with HD <sup>17</sup>	\$9.95
with DVR Service	\$19.95
with AnyRoom DVR Service <sup>19</sup>	\$19.95
with AnyRoom DVR Service (client)	\$9.95
with CableCARD <sup>35</sup>	\$7.27
<b>Service to Additional TV with TV Adapter<sup>13</sup></b>	\$6.99

## INTERNATIONAL SELECTIONS

<b>WKTU (Korean)</b>	\$14.99
<b>ART: Arabic<sup>38</sup></b>	\$9.99
<b>TV Globo: Brazilian<sup>38</sup></b>	\$19.99
<b>Brazilian 2 Pack<sup>38</sup></b> Includes TV Globo and PFC	\$24.99
<b>Brazilian 4 Pack<sup>38</sup></b> Includes TV Globo, PFC, Band Internacional and Record TV	\$34.99
<b>TVB Jade: Cantonese<sup>38</sup></b> Includes TVB Jade	\$10.99
<b>Mandarin 2 Pack<sup>38</sup></b> Includes Phoenix Info News and Phoenix North America	\$6.99
<b>Mandarin 4 Pack<sup>38</sup></b> Includes CTI Zhong Tian, CCTV4, Phoenix Info News and Phoenix North America	\$19.99
<b>Filipino 2 Pack<sup>38</sup></b> Includes GMA Pinoy w/ GMA Video On Demand and GMA Life	\$14.99
<b>Filipino 3 Pack<sup>38</sup></b> Includes GMA Pinoy w/ GMA Video On Demand, GMA Life and TFC	\$22.99
<b>TV5MONDE: French<sup>38</sup></b> With Cinema On Demand	\$9.99
<b>DW Deutsche +: German<sup>38</sup></b>	\$9.99
<b>Antenna: Greek<sup>38</sup></b>	\$14.99
<b>The Israeli Network<sup>38</sup></b>	\$19.99
<b>Rai Italia: Italian<sup>38</sup></b>	\$9.99
<b>Italian 2 Pack<sup>38</sup></b> Includes Rai Italia and Mediaset	\$14.99
<b>TV JAPAN<sup>38</sup></b> Includes TV JAPAN On Demand	\$24.99
<b>TV Polonia: Polish<sup>38</sup></b>	\$19.99
<b>SIC: Portuguese<sup>38</sup></b>	\$9.99
<b>Portuguese 2 Pack<sup>38</sup></b> Includes RTPi and SIC	\$14.99
<b>Impact TV: Russian Add-on<sup>38</sup></b> With any International package	\$6.99
<b>Russian 2 Pack<sup>38</sup></b> Includes Channel One Russia and NTV America	\$14.99
<b>Russian 4 Pack<sup>38</sup></b> Includes Channel One Russia, RTN, TV1000 Kino and NTV America	\$26.99
<b>Russian 5 Pack<sup>38</sup></b> Includes Channel One Russia, RTVi, NTV America, RTR-Planeta and Rossiya 24	\$26.99
<b>Russian 8 Pack<sup>38</sup></b> Includes Channel One Russia, RTN, RTVi, TV1000 Russian Kino, NTV America, RTR-Planeta, Rossiya 24 and CTC	\$34.99
<b>Willow: Cricket Add-on<sup>38</sup></b> With any International package	\$6.99
<b>Willow: Cricket<sup>38</sup></b>	\$14.99

<b>Zee TV: Hindi<sup>38</sup></b>	\$14.99
<b>SET: Hindi<sup>38</sup></b>	\$14.99
<b>Hindi 2 Pack<sup>38</sup></b> Includes Zee TV & SET	\$24.99
<b>Hindi Pack<sup>38</sup></b> Includes Zee TV, SET, TV Asia, NDTV 24x7 and NDTV Good Times	\$29.99
<b>Hindi Plus Pack<sup>38</sup></b> Includes Zee TV, SET, TV Asia, NDTV 24x7, NDTV Good Times, Eros Now and Willow	\$39.99
<b>SBTN: Vietnamese<sup>38</sup></b>	\$14.99
<b>TVB Jade: Cantonese<sup>38</sup></b>	\$10.99
<b>Record TV: Brazilian<sup>38</sup></b>	\$14.99
<b>ABP News: Hindi<sup>38</sup></b>	\$7.99
<b>TFC: Filipino<sup>38</sup></b>	\$11.99

## PAY-PER-VIEW AND ON DEMAND SUBSCRIPTION SERVICES<sup>4</sup>

<b>Eros Now On Demand</b>	\$12.99
<b>Eros Now On Demand</b> w/a South Asian international selection	\$9.99
<b>here! TV On Demand</b>	\$7.99
<b>Filipino On Demand</b>	\$7.99
<b>Filipino On Demand</b> w/a Filipino international selection	\$5.99
<b>The Jewish Channel On Demand</b>	\$6.99
<b>Disney Family Movies On Demand</b>	\$5.99
<b>Kidstream On Demand</b>	\$4.99
<b>History Vault On Demand</b>	\$4.99
<b>Gaiam TV Fit &amp; Yoga On Demand</b>	\$6.99
<b>Grokker Yoga Fitness On Demand</b>	\$6.99
<b>UP Faith and Family On Demand</b>	\$4.99
<b>Lifetime Movie Club On Demand</b>	\$3.99
<b>Anime Network On Demand</b>	\$6.99
<b>Stingray Karaoke On Demand</b>	\$6.99
<b>DOGTV On Demand</b>	\$4.99
<b>Gaia On Demand</b>	\$9.99
<b>AMC Premiere On Demand</b>	\$4.99
<b>Stingray Classica On Demand</b>	\$6.99
<b>TumbleBooksTV On Demand</b>	\$4.99
<b>FitFusion On Demand</b>	\$6.99
<b>CuriosityStream On Demand</b>	\$5.99
<b>PlayKids On Demand<sup>31</sup></b>	\$6.99
<b>MagellanTV History On Demand<sup>31</sup></b>	\$5.99
<b>Disney Story Central On Demand</b>	\$4.99
<b>Acorn TV On Demand</b>	\$5.99
<b>Daily Burn On Demand<sup>31</sup></b>	\$14.99
<b>Xive TV On Demand<sup>31</sup></b>	\$4.99
<b>Quark On Demand<sup>31</sup></b>	\$4.99
<b>Stephens Drum Shed On Demand<sup>31</sup></b>	\$4.99
<b>Pro Guitar Lessons On Demand<sup>31</sup></b>	\$4.99
<b>Touchfit TV On Demand<sup>31</sup></b>	\$4.99
<b>Lion Mountain TV On Demand<sup>31</sup></b>	\$3.99
<b>Blueprint TV On Demand</b>	\$7.99
<b>Urban Movie Channel On Demand</b>	\$4.99
<b>The Great Courses Signature On Demand<sup>31</sup></b>	\$7.99
<b>DJAZZ On Demand<sup>31</sup></b>	\$6.99
<b>Pantaya On Demand</b>	\$5.99
<b>Outside TV Features On Demand<sup>31</sup></b>	\$4.99
<b>The Reading Corner On Demand<sup>31</sup></b>	\$3.99
<b>Hopster On Demand<sup>31</sup></b>	\$6.99
<b>Ride TV On Demand<sup>31</sup></b>	\$4.99
<b>Brown Sugar On Demand<sup>31</sup></b>	\$3.99
<b>Echoboom Sports On Demand<sup>31</sup></b>	\$5.99
<b>Stingray Qello On Demand<sup>31</sup></b>	\$7.99
<b>Revolution Golf+ On Demand<sup>31</sup></b>	\$6.99

Hallmark Movies Now On Demand <sup>31</sup>	\$5.99
Dove Channel On Demand <sup>31</sup>	\$4.99
Kocowa On Demand <sup>31</sup>	\$6.99
WHAM On Demand <sup>31</sup>	\$2.99
Gravitas Movies On Demand <sup>31</sup>	\$4.99
MHz Choice On Demand <sup>31</sup>	\$7.99
Hi-YAH! On Demand <sup>31</sup>	\$2.99
True Royalty On Demand <sup>31</sup>	\$5.99
Real Vision On Demand <sup>31</sup>	\$14.99
Docurama On Demand <sup>31</sup>	\$2.99
Con TV On Demand <sup>31</sup>	\$4.99
Walter Presents On Demand <sup>31</sup>	\$6.99
Dekkoo On Demand <sup>31</sup>	\$9.99
ZooMoo On Demand <sup>31</sup>	\$2.99
Miniteve On Demand <sup>31</sup>	\$1.99
Kids Room On Demand <sup>31</sup>	\$5.99
Cinemoi On Demand <sup>31</sup>	\$2.99
Hitz <sup>42</sup>	\$12.00
Streampix <sup>25</sup>	\$4.99
Pay-Per-View and On Demand Movies and Events <sup>5</sup> (per title or event)	Prices Vary
Revry On Demand <sup>31</sup>	\$6.99
Too Much for TV On Demand	\$14.99
Brazzers On Demand <sup>18</sup>	\$19.99
Vivid On Demand Subscription <sup>18</sup>	\$19.99
Hustler On Demand Subscription <sup>18</sup>	\$19.99
TEN On Demand Subscription <sup>18</sup>	\$19.99
Urban Fantasy On Demand <sup>18</sup>	\$19.99
Falcon On Demand <sup>18</sup>	\$19.99
Homegrown Amateur On Demand <sup>18</sup>	\$19.99
Evil Angel On Demand <sup>18</sup>	\$19.99
Mature Lust On Demand <sup>18</sup>	\$19.99
Penthouse On Demand <sup>18</sup>	\$19.99
Girlfriends Films On Demand <sup>18</sup>	\$19.99
Wicked On Demand <sup>18</sup>	\$19.99
XTSY On Demand <sup>18</sup>	\$19.99
Reality Kings On Demand <sup>18</sup>	\$19.99
Arouse On Demand <sup>18</sup>	\$19.99

## SPORTS PACKAGES<sup>4</sup>

MLB Extra Innings <sup>®</sup>	Call 1-800-XFINITY for pricing
MLS Direct Kick	Call 1-800-XFINITY for pricing
NHL <sup>®</sup> Center Ice <sup>®</sup>	Call 1-800-XFINITY for pricing
NBA League Pass	Call 1-800-XFINITY for pricing

## XFINITY TV EQUIPMENT

TV Box Limited Basic	\$2.50
TV Box	\$2.50
Remote	\$0.18
HD TV Box Limited Basic	\$2.50
TV Adapter (Limited Basic — Primary TV)	\$0.00
TV Adapter (Limited Basic — 1st and 2nd Additional TVs)	\$0.00
TV Adapter (Limited Basic — 3rd Additional TV)	\$0.50
CableCARD (first card in device)	\$0.00
CableCARD (second card in same device)	\$0.00

## INSTALLATION

(PER OCCURRENCE UNLESS NOTED)

	Initial Installation of Service	After Initial Installation of Service
Professional Installation <sup>23,24</sup>	\$79.99	N/A
In-Home Service Visit <sup>22</sup>	N/A	\$40.00
Hourly Service Charge <sup>24</sup> (Custom Installation)	\$50.00	\$50.00
Xfinity Internet Gigabit Pro Professional Installation (per occurrence)		\$500.00
Wireless Networking On-Site Professional Set-Up (Separate trip, per occurrence)		\$99.95
Wireless Networking On-Site Professional Set-Up (each additional device over 4 devices per occurrence)		\$29.95

## REACTIVATION

(NO IN-HOME VISIT REQUIRED—PER OCCURRENCE UNLESS NOTED)

Reactivation - TV	\$6.00
Reactivation - Internet	\$6.00
Reactivation - Voice	\$6.00

## MISCELLANEOUS (PER OCCURRENCE UNLESS NOTED)

Customer-Owned Video Equipment Credit See www.xfinity.com/equipmentpolicy for additional information	\$2.50
Regional Sports Fee <sup>29</sup> (per month)	\$3.60
Field Collection Charge Visit to customer's residence required to collect past due balance or unreturned equipment	\$30.00
Returned Payment Item (each)	\$25.00
Late Fee	5%
Agent Assisted Payment For payment made by phone with a Customer Care Representative	\$5.99
Unreturned or Damaged Equipment Fees <sup>6</sup> (per piece)	Replacement Cost
Self Install Kit Shipping and Handling	\$15.00
Self Install Kit Shipping and Handling (Priority Shipping)	\$29.95

## XFINITY INSTANT TV<sup>1,28</sup>

### BASIC SERVICE

#### Xfinity Instant TV

Includes Limited Basic for simultaneous streaming on two devices, and 20 hours of Cloud DVR service \$10.00

### XFINITY INSTANT TV ADDITIONAL SERVICES<sup>30</sup>

Kids & Family Includes 13 kid and family-friendly channels including Cartoon Network, Disney Channel, Nickelodeon and Universal Kids	\$10.00
Entertainment Includes 22 entertainment channels including A&E, AMC, Bravo, Food Network, FX, TNT and VH1	\$15.00
Sports & News Includes 14 sports and news channels including CNBC, CNN, ESPN, Golf, MSNBC and NBC Sports	\$28.25
Deportes Includes over 6 deportes channels including ESPN Deportes, FOX Deportes and NBC Universo	\$7.00
Latino Includes 13 latino channels including Cine Latino, Discovery en Espanol, Galavisión, Viendo Movies and VME Kids	\$5.00
HBO <sup>®</sup>	\$15.00
Starz <sup>®</sup>	\$12.00
Streampix	\$4.99

## XFINITY VOICE<sup>1,7</sup>

Xfinity Voice—Unlimited	\$44.95
With TV and Internet Service	\$39.95

<b>Xfinity Voice—Local with More With TV or Internet Service</b>	\$34.95
	\$24.95

## XFINITY INTERNET<sup>1,8</sup>

	<b>Xfinity Internet Service Only</b>	<b>with Xfinity TV or Voice Service<sup>26</sup></b>
<b>Performance Starter</b>	\$49.95	\$49.95
<b>Performance</b>	\$74.95	\$61.95
<b>Performance Plus</b>	\$84.95	N/A
<b>Performance Pro</b>	\$89.95	\$76.95
<b>Blast!</b>	\$94.95	\$81.95
<b>Extreme Pro<sup>20</sup></b>	\$99.95	\$86.95
<b>Gigabit<sup>20</sup></b>	\$104.95	\$91.95
<b>Gigabit Pro<sup>20,21</sup></b>	\$299.95	\$299.95
<b>Modem Rental</b>		\$13.00
<b>Wireless Adapter</b> (each, one-time charge)		\$30.00
<b>Gigabit Pro Activation Fee</b> (per occurrence)		\$500.00
<b>Unreturned or Damaged Equipment Fees<sup>6</sup></b> (per piece, per occurrence)		Replacement Cost

<sup>1</sup> Certain services available separately or as a part of other levels of service. Xfinity services are subject to Comcast's standard terms and conditions of service. Unless otherwise specified, prices shown are the monthly charge for the corresponding service, equipment or package. Prices shown do not include applicable taxes, franchise fees, FCC fees, Regulatory Recovery Fee, Public Access fees, other state or local fees or other applicable charges (e.g., per-call toll or international charges). Prices, services and features are subject to change. If you are an Xfinity TV customer and you own a compatible TV Box or CableCARD device, please call 1-800-XFINITY for pricing information or visit [www.xfinity.com/equipmentpolicy](http://www.xfinity.com/equipmentpolicy). © 2019 Comcast. All rights reserved.

<sup>2</sup> Requires a Modem and TV Box with remote, CableCARD or compatible customer owned device.  
<sup>3</sup> Sold only with Service to Additional TV with TV Box for up to 3 TVs, maximum 3 clients per household. Requires HD Technology Fee and professional installation. Not available to customers with Limited Basic only.

<sup>4</sup> Requires Limited Basic, TV Box with remote or compatible customer owned device. Sports Package subscriptions can be billed at once or in 4 total payments. Restrictions may apply.

<sup>5</sup> Price of Pay-Per-View and On Demand Movie or Event is displayed prior to the completion of the Pay-Per-View or On Demand ordering process.

<sup>6</sup> Contact 1-800-XFINITY for questions regarding equipment replacement charges.

<sup>7</sup> Requires a Modem. Unlimited Local and Long Distance package pricing applies only to direct dialed calls from home to locations included in the plan. Plans do not include other international calls. For more information regarding Xfinity Voice pricing go to <https://www.xfinity.com/Corporate/About/PhoneTermsOfService/ComcastDigitalVoice/cvresidential>.

<sup>8</sup> A Modem is required. For more information regarding Xfinity Internet go to <http://www.xfinity.com/internet-service.html>.

<sup>9</sup> Requires TV Box, TV Adapter, CableCARD or compatible customer owned device.

<sup>10</sup> Not available to customers with Limited Basic only. Must subscribe to HD Technology Fee to receive HD programming.

<sup>11</sup> Requires Limited Basic, TV Box, CableCARD or compatible customer owned device.

<sup>12</sup> Subject to availability.

<sup>13</sup> Includes TV Adapter and remote. Digital service tier on additional TV corresponds to digital service tier on primary outlet. Does not include access to On Demand content, premium channels or channel numbers above 1000 unless otherwise noted on the channel lineup. Not available to customers with Limited Basic only.

<sup>14</sup> Not available to Limited Basic only customers. Digital service tier on additional TV corresponds to digital service tier on primary outlet.

<sup>15</sup> Requires HD Technology Fee. Service to Additional TV with TV Box required for DVR service on additional TVs.

<sup>16</sup> Requires Digital Starter.

<sup>17</sup> Requires HD Technology Fee.

<sup>18</sup> One month minimum purchase required. Not available in all areas.

<sup>19</sup> Non-client includes Service to Additional TV charge.

<sup>20</sup> Not available in all areas. May require installation and non-refundable installation charge.

<sup>21</sup> Requires 2 year contract. Monthly rental of Gigabit Pro compatible cable modem/router additional. Activation and professional installation fees additional. Gigabit Pro does not qualify for Comcast 30-day money back guarantee.

<sup>22</sup> Applies to installation, relocation and activation of additional outlets as well as upgrade/downgrades of service after initial installation of service and in-home visits. Does not cover installation or in-home visits for Xfinity Home.

<sup>23</sup> Includes standard installation of Xfinity TV, Xfinity Internet and/or Xfinity Voice and installation of additional outlets and wireless networking set-up if requested at time order is placed. Does not include installations of Xfinity TV only, Xfinity Home or Xfinity Gigabit Pro Internet.

<sup>24</sup> Standard installations include installations up to 125 feet from existing Comcast plant, primary outlet only. Custom installations include installations which require in-wall wiring or installations in extensive drop ceilings, basements, or crawl spaces.

<sup>25</sup> Requires Limited Basic and TV Box and remote or compatible customer owned device. Requires HD Technology Fee to receive HD programming. Streaming to device requires Xfinity TV app. Internet service with bandwidth of at least 600 Kbps and to Limited Basic. Streaming to laptop/computer requires equipment meeting minimum requirements posted at <https://www.xfinity.com/support/internet/requirements-to-run-xfinity-internet-service/>. Internet service with bandwidth of at least 600Kbps and to Limited Basic.

<sup>26</sup> Xfinity Internet discount does not apply to Xfinity Instant TV.

<sup>27</sup> Applies to Limited Basic and Xfinity Instant TV.

<sup>28</sup> Requires Xfinity Internet.

<sup>29</sup> Applies to Digital Starter and above, and Xfinity Instant TV Sports & News.

<sup>30</sup> Requires Xfinity Instant TV.

<sup>31</sup> Requires Limited Basic with X1 TV Box and Xfinity Internet service.

<sup>32</sup> Requires Limited Basic, HD Technology Fee and TV Box, CableCARD or compatible customer owned device.

<sup>33</sup> Requires TV Box, CableCARD or compatible customer owned device with Xfinity Internet service. Up to 10 hours of cloud DVR service available with either X1 TV Box (eligible with minimum subscription to one Genre Pack) with Xfinity Internet service or compatible customer owned device with Xfinity Internet service.

<sup>34</sup> Requires Choice TV. Cannot be combined with Limited Basic or Digital Starter.

<sup>35</sup> Not available to customers with Limited Basic only. Includes a customer-owned video equipment credit. An additional charge will apply for additional CableCARDs in the same device.

<sup>36</sup> Netflix activation of subscription requires X1 equipment.

<sup>37</sup> Cannot be combined with the Sports & News genre pack.

<sup>38</sup> Requires Limited Basic with X1 TV Box or compatible customer owned device and Xfinity Internet service.

<sup>39</sup> 10 Hour DVR Service requires Xfinity Internet Service and either an X1 TV Box or a compatible customer owned device.

<sup>40</sup> Equipment required at an additional cost. For additional information go to <http://www.xfinity.com/homesecurity>.

<sup>41</sup> Includes Xfinity Home Security and 24/7 Video Recording for up to 4 cameras. Equipment required at an additional cost. For more information on 24/7 Video Recording go to <http://www.xfinity.com/videorecording>.

<sup>42</sup> Requires Limited Basic TV service and a compatible Xfinity TV Box or customer owned device.

### Xfinity Home License Numbers:

**AL:** 001484, 001504; **AR:** 12-030; **AZ:** ROC 280515, BTR 18287-0; **CA:** CSLB 974291, ACO 7118; **CT:** ELC 0189754-C5; **DE:** FAL-0299, FAC-0293, SSPS 11-123; **FL:** EF0000921, EF20001002, EF0001095; **GA:** LVU406303, LVU406264, LVU406190, LVU406354; **IL:** PACA 127-001503; **LA:** F1691; **MA:** SS-001968; **MD:** 107-1776; **ME:** LM50017039; **MI:** 3601206217; **MN:** TS674412; **NC:** 2335-CSA, 29443-SP-FA/LV; **NJ:** Burglar and Fire Alarm Business Lic. # 34BF00047700; **NM:** 373379; **NY:** licensed by the N.Y.S. Department of State 12000305421; **OH:** LIC# 53-89-1732; **OR:** CCB 192945; **SC:** BAC-13497, FAC-13440; **TN:** ACL 1597, ACL 1604; **TX:** ACR-1672104,-1818, B16922, B02571; **UT:** 8226921-6501; **VA:** 2705145289, DCJS 11-7361; **VT:** ES-02366; **WA:** COMCABS892DS; **WASHINGTON, DC:** ECS 902687, BBL 602512000005; **WV:** WV049211.

### MS: 15018010

Valid 1/1/19. See [www.xfinity.com/home-security](http://www.xfinity.com/home-security) for current list.

82996000: 0050;0060;0070;0080;0090;0100;0110;0130;0140



## **Charles City County Broadband Plan:**

Please see the link below for Charles City's Broadband Project Recommendation, by Design Nine Broadband Planners, published in September 2014:

<https://public.3.basecamp.com/p/PkitoH5edjKgQM6HdVJsUQvJ>

**CHARLES CITY COUNTY COMMUNITY ANCHOR INSTITUTIONS**

	<b>Name</b>	<b>Address</b>
<b>1</b>	St. John Baptist Church	8131 Roxbury Road, Charles City, VA 23030
<b>2</b>	Union Baptist Church	5801 Old Union Road, Charles City, VA 23030
<b>3</b>	Memorial United Methodist Church	11000 Courthouse Road, Charles City, VA 23030
<b>4</b>	New Vines Church	5100 John Tyler Memo Hwy, Charles City, VA 23030
<b>5</b>	Liberty Baptist Church	9100 Liberty Church Road, Charles City, VA 23030
<b>6</b>	Jerusalem Church	14321 Sandy Point Road, Charles City, VA 23030
<b>7</b>	Parrish Hill Church	12401 John Tyler Memo Hwy Charles City, VA 23030
<b>9</b> <b>8</b>	Westover Church	6401 John Tyler Memo Hwy, Charles City, VA 23030
<b>9</b>	Gilfield Baptist Church	6640 Church Lane, Charles City, VA 23030
<b>10</b>	Bethany Church	8001 Adkins Road, Charles City, VA 23030
<b>11</b>	Little Elam Church	8840 Church Lane, Charles City, VA 23030

<b>12</b>	Cedar Grove Church	5500 Adkins Road, Providence Forge, VA 23140
<b>13</b>	Samaria Baptist Church	8100 Lott Cary Road, Providence Forge, VA 23140
<b>14</b>	Elam Baptist Church	13060 The Glebe Lane, Charles City, VA 23030
<b>15</b>	Mount Pleasant Church	19300 The Glebe Lane, Charles City, VA 23030
<b>16</b>	Mount Zion Church	11651 Wilcox Neck Road, Charles City, VA 23030
<b>17</b>	Charles City Community Church	104 Roxbury Indust Center, Charles City, VA 23030
<b>18</b>	Charles City County Elementary School	10049 Courthouse Road Charles City, VA 23030
<b>19</b>	Charles City County Middle School	10035 Courthouse Road Charles City, VA 23030
<b>20</b>	Charles City County High School	10039 Courthouse Road Charles City, VA 23030
<b>21</b>	Charles City County Social Center	8320 Ruthville Road Providence Forge, VA 23140
<b>22</b>	Charles City Ruritan Club	20900 Old Neck Road Charles City, VA 23030
<b>23</b>	American Legion	7710 Courthouse Road Providence Forge, VA 23140

<b>24</b>	Chickahominy Indian Tribe	8200 Lott Cary Road
		Providence Forge, VA 23140
<b>25</b>	Charles City County Social Center	8320 Ruthville Road
		Ruthville, VA 23148



*COMMONWEALTH of VIRGINIA*  
*Office of the Governor*

Secretary of Commerce and Trade

May 29, 2019

Michelle Johnson  
County Administrator  
Charles City County  
10900 Courthouse Road  
Charles City, VA 23030

Dear Ms. Johnson,

Thank you for submitting your USDA ReConnect application project area for state review. After careful review of all state broadband funding programs, I certify that your proposed project area in Charles City County has not received state funding in the past 5 years.

As you know, Governor Northam has set the goal for universal broadband coverage in Virginia within a decade. Leveraging federal resources like ReConnect are critical to achieving this goal and we are glad to see Virginia providers and localities applying for funding. Another key aspect to bridging the digital divide is the Virginia Telecommunication Initiative (VATI), a \$19 million grant program for broadband deployment in unserved areas. VATI applications that leverage federal funding are typically very competitive so I urge you to consider this program as well.

I wish you the best of luck in your application and look forward to continuing to work with you to bring broadband service to as many Virginians as possible.

Sincerely,

Evan Feinman  
Chief Broadband Advisor  
Office of Governor Ralph S. Northam