

Application to DHCD Submitted through CAMS

Mount Rogers Planning District Commission

Mount Rogers Regional Telecom Project Phase2

Application ID: 86509102021091355

Application Status: Pending

Program Name: Virginia Telecommunications Initiative 2022

Organization Name: Mount Rogers Planning District Commission

Organization Address: 1021 Terrace Drive
Marion, VA 24354-4137

Profile Manager Name: Stephanie Patton

Profile Manager Phone: (276) 783-5103

Profile Manager Email: spatton@mrpdc.org

Project Name: Mount Rogers Regional Telecom Project Phase2

Project Contact Name: Brian Reed

Project Contact Phone: (276) 783-5103

Project Contact Email: breed@mrpdc.org

Project Location: 1021 Terrace Drive
Marion, VA 24354-4137

Project Service Area: Smyth County, Washington County, Wythe County

Total Requested Amount: \$66,446,228.00

Required Annual Audit Status: Pending Review

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$66,446,228.00	\$33,615,600.00	\$100,061,828.00
Construction	\$66,446,228.00	\$33,615,600.00	\$100,061,828.00
Total:	\$66,446,228.00	\$33,615,600.00	\$100,061,828.00

Budget Narrative:

This project provides universal broadband coverage (95%+) to the counties of Washington, Smyth and Wythe. The application builds ~2144 miles of new fiber plant and plans to serve 28,013 under or unserved passings for a total project cost of \$100,061,828. The average cost per passing is \$3,571.98.

Questions and Responses:

1. Project Description and Need

Describe 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:

This project leverages the partnership of the Mount Rogers PDC, the cooperation of three counties (Smyth, Washington, and Wythe), and the efficiency of one central service provider, Point Broadband.

Washington County

Communities served: Mendota, Nordyke, North Fork, Withers, Fleenors, Hines Island, Rich Valley Road, Black Hollow Road, Hidden Valley Lake, Brumley Gap, Whites Mill, Clinchburg, Lindell, Price Hill, Washington County Park, Alvarado, Osceola, South Holston Lake to the Tennessee state line, Friendship, Meadowview, Glade Spring and Emory. North to south from the Russell County line to the Smyth County line to the Tennessee state line.

The project area includes over 130 square miles in the northern, eastern and southern quadrants of Washington County and encompasses over 400 named roads. The eastern project boundary terminates at/near both the Smyth County line, and the northern boundary extends to the Russell County line. The southern boundary covers areas in/around the Alvarado and South Holston Lake community (Hwy 91), and the southern perimeter extends to the Tennessee state line.

The County recognizes internet service as an infrastructure attribute necessary to support long-term economic viability and overall community livability. In 2017, the Board of Supervisors created the Telecommunications Advisory Committee to identify areas of the county experiencing coverage gaps and to pursue opportunities to improve service to residents and businesses. The proposed service area includes portions of 8 US Census tracts. Examination of publicly available FCC maps and Virginia's Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox (CIT/VT/CGIT/VITA) reflects the presence of underserved or unserved areas throughout the County's project area. The County's prior awareness of internet accessibility challenges in and around the communities/places identified in the project service area continues to be amplified by the COVID pandemic. 4 public schools, 4 public safety facilities, 2 community centers, 2 medical clinics, a public library, town hall, 28+ places of worship, and 40+ businesses are located within the proposed service area. Critical public infrastructure features supporting electrical, water/wastewater service, and 3 solid waste convenience stations are in the project area. Similarly, nationally-acclaimed outdoor recreational and cultural heritage assets are included within the project service area, including Appalachian Trail, Virginia Creeper National Recreation Trail, Iron Mountain Trail, Crooked Road, TransAmerica Trail, Virginia's Birding and Wildlife Trail, Daniel Boone Heritage Trail, and Mount Rogers National Recreation Area; at least 250,000-500,000 people visit these destinations annually. The availability of reliable, affordable, high-speed internet is necessary to support the continued

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economic growth and public safety needs for the area, as well as to allow the community to address challenges and opportunities.

Smyth County

Communities Served: in and around Broadford, Allison Gap, Rich Valley, Nebo, Atkins, Saltville, Attoway, Adwolfe, Stony Battery and Seven Mile Ford. The project borders are: Washington County to the west, Russell County to the north, Wythe County to the east and Sugar Grove & Konnarock to the south (2020 VATI award).

Smyth County has a long history of farming communities, hardworking folks and simple living. For generations, this way of life did not have a downside until the digital boom. While other metropolitan areas are growing and thriving in this digital age, the County, as well as many other rural areas of Virginia, is suffering. The topography of what once made Smyth County a sought-after place to live has now become our Achilles heel. County residents, community leaders, business owners, and children long for both the simple life of farms, beautiful views, quiet neighborhoods and online education, telemedicine, being able to video-chat family members, order groceries online, or to be able to pick up the phone to dial 9-1-1 if there is an emergency. These are all normal, daily items that County residents should not be asked to be without. The areas identified in our application contain a large number of residents who are without internet completely; as well as residents who are underserved.

Wythe County

Communities Served: in and around Willard, Blacklick, Wilson, Stony Fork, Crocketts Cove, Max Meadows, Allison, Carter Island, Barren Springs, Baker Island, Galena, West Piney, Siloam, Ivanhoe, Austinville and Fort Chiswell.

Crisscrossed by two interstate highways (81 & 77), the county-seat sees nearly 70,000 motorists daily. Unfortunately, there exists a massive disparity in income, infrastructure, and life expectancy between residents who reside in the county's modern central community and those who live only a handful of miles beyond the town limits. This disparity and inequality was made extraordinarily apparent in the early days of the COVID pandemic as both medical providers and students were unable to utilize basic telehealth and telelearning resources afforded to millions of other Americans -- placing the most vulnerable in our locality at even greater health risks -- the governor's COVID-19 Equity Leadership Task Force identified these precise areas as being most susceptible to the virus due to the inequalities they're faced with in daily life; the lack of broadband has also hurled yet another roadblock to a countless number of impoverished Virginians.

This project provides high-speed broadband to residents of southeast, north central and southeast Wythe County -- some of the most impoverished communities in the region and providing universal coverage. This project gives the residents of places like Ivanhoe, Willard and Crocketts Cove (where the family median income is \$41,354, compared to the state family median income which is nearly double this amount at \$71,564) a fighting chance to compete in a world that is increasingly seeing more inequities and generational poverty.

2. List existing providers in the proposed project area and the speeds offered. Please do not include satellite. Describe your outreach efforts to identify existing providers and how this information was compiled with source(s).

Answer:

Century Link offers DSL service to most of the area. It is widely known that DSL does not offer a consistent and reliable bandwidth of 25/3. We have confirmed this through customer contact, field audits and form 477 reviews. Comcast is the primary cable provider in Washington and Smyth, while Shentel is the primary cable provider in Wythe. Citizens Telephone serves a small footprint in the southeast portion of Wythe. We have confirmed less than 10% overlap with their service and the project area. Point Broadband (Sunset on the 477) does have backbone and middle mile in some of the project areas built by BVU, but we do not have any significant residential coverage in the project footprint. It is well established that the 477 is severely flawed and is one of the largest hurdles to serving some of the areas most in need. Point Broadband has received over 2000 service requests in and around the project area over the past 2 years. With the addition of the ARPA 100 x 20 Mbps guidance nearly all HFC (cable) providers will fail to meet the upload standard.

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3. Describe if any areas near the project have received funding from federal grant programs, including but not limited to Connect America Funds II (CAF II), ACAM, ReConnect, Community Connect, and Rural Digital Opportunity Funds (RDOF). If there have been federal funds awarded near the project area(s), provide a map showing these areas, verifying the proposed project area does not conflict with these areas. Do not include areas awarded to satellite broadband providers. Label Map: Attachment 2 – Documentation on Federal Funding Area.

Answer:

There are no CAF awarded CBG's in the project area. There are no identified RDOF CBG in the project area awarded to anyone other than Space X. Point Broadband does not have any RDOF or CAF in the project area.

4. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF), excluding those awarded to satellite internet service providers, are included in the VATI application area. If RDOF areas awarded to terrestrial internet service providers are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. Label Attachment: Attachment 3 – RDOF Awarded Areas Form in VATI Area

Answer:

There are no identified RDOF CBG in the project area awarded to anyone other than Space X. Attachment 3 shows the Space X RDOF blocks.

5. Overlap: 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 below 25/3 mbps and with less than 25% service overlap within the project area for wireless projects and 10% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. Label Attachment: Attachment 4 – Documentation Unserved Area VATI Criteria.

Answer:

We did a comprehensive review of the eligibility of the project area using the following tools and methods: review of the FCC 477 form, review of the CIT coverage mapping, review of the Southwest Virginia Broadband study, field review of pole attachments in the project area, door to door surveys within the project area and review of project area addresses on the cable provider website(s). The results of these efforts confirm the project area is primarily served by Century Link DSL and various satellite services. Our design is centered around avoiding overlap with the closest cable provider completely, and we are confident the overlap is less than the required 10% (2800 passings). Point Broadband may spend its own funds to build into those areas beyond the grant construction. Documentation of Unserved Area VATI Criteria is found in Attachment 4. There is overlap of less than 10% with providers who claim to offer 25/3 or higher, but nearly all lack the ARPA requirement of 100 x 20, and none can scale to 100 x 100 due to technological limitations of the HFC plant.

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6. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 10 Megabits per second download and 1 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 5 – Passings Form.
- Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area. (Up to 10 points for businesses and community anchor institutions)
 - If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
 - If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise. Describe the methodology used for these projections.
 - If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.
 - Provide the number of passings in the project area that have 10/1 mbps or less. Describe the methodology used for these projections. (up to 15 points)

Answer:

- The passings form is attached with this information. Attachment 5
- The co-applicant does not have any RDOF passings in the project area. There appear to be ~950 RDOF passings that were bid on by Space X but their award has not been confirmed or announced by the FCC at this time. Attachment 3 shows the location of the Space X passings.
- All construction costs necessary for special drops are included in the application request.
- N/A
- Representatives from Point Broadband did a comprehensive review of the project area and determined the passings as defined by the categories on the Passings Form chart in Attachment 5. This included digital review, business license review, field audit, review with local leadership and review of county data for business and anchor institution existence. Given that we identified the primary provider for the project area as CenturyLink DSL, we feel that an overwhelming majority of the project has 10/1 or less. CenturyLink DSL advertises a range of service on the FCC 477 form from 1.5/.512 to 60/5. We can find no evidence of any DSL ever providing speeds of 60/5. Our field audit has the average DSL speed at less than 10/1. Our field audit has the average DSL speed at less than 10/1. We feel that there are approximately 25422 of the 28013 passings that are at 10/1 or less (DSL or satellite options only). There is overlap of less than 10% with providers who claim to offer 25/3 or higher, but nearly all lack the ARPA requirement of 100 x 20, and none can scale to 100 x 100 due to technological limitations of the HFC plant.

Washington= 10344
Smyth= 9490
Wythe= 8179
Mt Rogers Total= 28013

7. **For wireless projects only:** Please explain the ownership of the proposed wireless infrastructure. Please describe if the private co-applicant will own or lease the radio mast, tower, or other vertical structure onto which the wireless infrastructure will be installed.

Answer:

N/A

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8. Speeds: Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. 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. List the private co-applicant's tiered price structure for all speed offerings in the proposed project area, including the lowest tiered speed offering at or above 25/3 mbps. (up to 10 points)

Answer:

Package Name & Speed

Package Price per Month

Lite 25 Mbps X 25 Mbps

\$ 54.95

Basic 50 Mbps x 50Mbps

\$ 65.95

Perform 100 Mbps x 100 Mbps

\$ 70.95

Performance Plus 200 Mbps x 200 Mbps

\$ 80.95

Ultra 500 Mbps x 500 Mbps

\$ 100.95

Extreme 1 Gbps x 500 Mbps

\$ 130.95

9. Network Design: 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. Provide a detailed explanation of how this information was determined with sources. Provide information on how capacity for scalability, or expansion, of how the network can adapt to future needs. If using a technology with shared bandwidth, describe how the equipment will handle capacity during peak intervals. For wireless projects, provide a propagation map for the proposed project area with a clearly defined legend for scale of map. Label Map: Attachment 6 – Propagation Map Wireless Project.

Answer:

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Point Broadband of Bristol, Virginia operates a Gigabit Passive Optical Network (GPON) to deliver triple play services to the communities of Southwest Virginia. GPON has the advantage of being able to support multiple users through a single optical fiber reducing equipment and satisfying both high density and rural areas (GPON.com, n.d.). Furthermore, Wang Zhaoqing of the IEEE denotes, “besides the transmission characteristics of good quality, large capacity, and long distance, GPON has the advantages of low maintenance cost, high confidentiality, and strong anti-jamming capability” (Zhaoqing, 2011). The following sections describe how Point Broadband uses this technology to provide superior broadband service to the consumers of Southwest Virginia.

Point Broadband’s broadband Internet services originate from two geo-redundant locations at Equinix in Ashburn, Virginia, and Digital Realty in Atlanta, Georgia. Within each diverse location Point Broadband is provided access to the Internet from both XO Communications, and Level3 (CenturyLink) service providers. Furthermore, the customer experience is enhanced by the connection to each location’s Internet Peering Exchange (Equinix Internet Exchange, Digital Realty Internet Exchange). An Internet exchange allows Internet Service Providers (ISPs) to directly interconnect networks and exchange Internet Protocol (IP) traffic. The exchanges provide the Point Broadband end user with a lower latency network, and increased redundancy through the availability of more paths and improved routing.

Traveling from each redundant location, for increased reliability Point Broadband has chosen transport partners offering three diverse paths over 10 Gigabit fiber links. For example, from the origination point in Atlanta, traffic is delivered through one of two 10 Gigabit paths of which both terminate in the Central Office located in Bristol, VA. Ashburn traffic passes through a 10 Gigabit path and terminates at Point Broadband’s Disaster Recovery Point of Presence located in Wytheville, VA. Each of the 10 Gigabit optical paths from Atlanta terminate into an edge routing device.

The 10 Gigabit transport data terminating in Wytheville travels along Point Broadband’s Dense wavelength division multiplexing (DWDM) fiber ring. The implementation of the DWDM ring affords Point Broadband the ability to transport high capacity, low latency, protected broadband data amongst 19 different POP locations. The ring allows for the East/West flow of up to 200 Gigabits per second. Customer traffic from Ashburn to Wytheville travels along this ring, finally terminating at Bristol’s North POP on another edge routing device. The edge routing devices provide another distinct advantage to customers through the connection of content caching servers implemented from large providers like Google. Caching servers save both Point Broadband and the consumers from having traffic return to their origination points for content. By traffic not having to continuously flow back to the origin it decreases the overall bandwidth required at the origination point (Atlanta or Ashburn).

Point Broadband’s protection and redundancy continues as traffic from each edge router flows into one of two Service Router devices. These devices, one located within the Bristol CO, and the other at the North POP are interconnected with each other through a 20 Gigabit Link Aggregation Group (LAG). The multiple chassis along with the LAG (MC-LAG) allow for more efficient use of bandwidth and sub-second failover in case one of the two chassis were to fail. Each service router uses a physical port or more to feed the customer facing network or Optical Line Termination (OLT).

The OLT is the origination point for the definition of the GPON network as described previously. OLTs much like network switches contain cards with ports; each port represents a PON. 10 Gigabits of available broadband traffic is spread amongst cards containing from four to eight individual PON ports. Point Broadband has chosen to keep the customer per PON ratio in the customer’s favor for a 32 to 1 standard. This standard means simply Point Broadband allows up to 32 customers per PON port. This is in direct comparison to the 64 or even 128 to 1 ratio, which reduces the overall bandwidth capabilities to each customer. Traffic flows from these PON ports connecting to a passive optical splitter located close to the customer within a fiber cabinet. Each of the 32 splitter ports connects directly to a customer premise device or Optical Network Terminal (ONT). ONTs are attached directly to the customer’s home or business. A single fiber connects to the ONT and from the ONT Category 3, Category 5/6 Ethernet, and even Radio Frequency connections are available. The ONT facilitates the transmission of data into customer’s devices such as telephones, computers, routers, and video devices. Each customer can receive up to a 1 Gigabit per second service.

Sources GPON.com. (n.d.). Why GPON. Retrieved from Gigabyte Passive Optical Network (GPON): <http://www.gpon.com/why-gpon> Zhaoqing, W. (2011). Research on the Application of GPON Technologies. Retrieved 12 13, 2018, from <http://ieeexplore.ieee.org/xpl/abstractauthors.jsp?reload=true&arnumber=5957468&punumber=5955409>

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10. Explain how the proposed project achieves universal broadband coverage for the locality or fits into a larger plan to achieve universal broadband coverage for the locality. If applicable, explain the remaining areas of need in the locality and a brief description of the plan to achieve universal broadband coverage. (up to 50 points)

Answer:

This application identifies and addresses all remaining under or unserved passings in the following counties and provides universal coverage for : Washington, Smyth and Wythe. This is a result of a review of existing projects (VATI 2020, CAF, RDOF, 2020 CARES ACT), field audits of existing providers and review of FCC 477 maps, and CIT coverage maps. Our 2020 award chronicled much of the existing covered area and allowed us to efficiently identify the remaining passings.

11. **Project Readiness**

Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants must include Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant; (up to 20 points)

Answer:

This project is designed to be constructed on a 24 month construction schedule. Preliminary engineering has been completed for the project. All poles have been identified and pole permit applications are ready to be submitted upon award. The applicant and co-applicant have an MOU in place for our 2020 award and have attached a draft version as Attachment 8. Attachment 7 is the project plan for the 24 month schedule. Upon award, field walkout will commence and that data will be used for final design. ROW clearing and aerial strand installation will begin within 30 days of contract execution.

12. Has the applicant or co-applicant received any VATI grants? If so, provide a list of these grants, with a detailed summary of the status of each.

Answer:

The applicant and co-applicant have received 1 VATI award together. Point as co-applicant has received 2 other awards.

1. 2019 award - Davenport - This project is complete and the final reimbursement submission is ready to submit. The project will be closed out in Q4 2021. It served approximately 489 new passings and currently has 215 active customers. Total project budget was \$755,203.
2. 2020 award - CPC - This project contract was signed in August of 2021 and plans to serve 8003 passings on a total project budget of \$27,417,719. Field engineering, walkout and ROW clearing has begun and the first passings are expected to be activated for marketing in November 2021.
3. 2020 award - Mount Rogers - Point Broadband is the co-applicant with the Mount Rogers PDC. This project contract was signed in August of 2021 and plans to serve 5301 passings on a total project budget of \$14,361,233. Field engineering, walkout and ROW clearing has begun and the first passings are expected to be activated for marketing in November 2021.

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13. Matching funds: Complete the funding sources table indicating the cash match and in-kind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum 20% match is required to be eligible for VATI, the private sector provider must provide 10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding

Answer:

The matching funds of \$33,615,600.00 will come from the co-applicant, Point Broadband via private funds. See Attachments 9 & 10. Point Broadband's balance sheet is provided. Audited financial statements are available if needed but will require a FOIA exemption. The applicant along with leadership from Washington, Smyth and Wythe counties, will provide in-kind services relating to grant management, easement acquisition, permit acquisition, digital literacy efforts and local event organization for customer sign up.

14. Leverage: Describe any leverage being provided by the applicant, co-applicant, and partner(s) in support of the proposed project. (up to 10 points)

Answer:

Point Broadband brings 3 points of leverage to this application. First, existing middle mile fiber that runs strategically throughout the 3 counties allows for access points and connectivity to remote regions. Second, our VATI award with the MRPDC in 2020 further extends the reach of our fiber to the remaining households in the 2021 application offering positive cost synergies for the remaining construction. Third, the RDOF award (over \$70 MM company wide) helps us secure consistent labor that will be in high demand over the next 48 months.

15. Marketing: Describe the broadband adoption plan.

a. Explain how you plan to promote customer take rate, including marketing activities, outreach plan, and other actions to reach the identified serviceable units within the project area. Provide the anticipated take rate and describe the basis for the estimate. (up to 10 points)

b. Describe any digital literacy efforts to ensure residents and businesses in the proposed project area sufficiently utilize broadband. Please list any partnering organizations for digital literacy, such as the local library or cooperative extension office.

Answer:

Point Broadband's strategic marketing plan is based upon our unique selling proposition of Fiber to the Home. Using this core strategy, we will differentiate our company, products and services significantly enough to achieve and exceed our planned market share. Our objective is to consistently deliver the fastest, most reliable high-speed internet service with best in class customer service as we build and promote our brands as quality based. We aim to gain customers through the strength of our fiber to the premise network and the benefit of doing business with a local company.

Our approach is to completely alter the local landscape of telecommunications services. We are not a cable company or a telephone company. We are a fiber broadband company. We are the "experts" in this industry.

Our goal is to be known as an active local community asset, both commercially and charitably. We achieve this by maintaining a year around awareness of community events in each territory, contributions to specific educational or cultural programs and our own self-promotional events. Realistically, when breakdowns do occur, we will be known as the company who responds with alacrity and integrity, taking responsibility and fixing the problem graciously. It is all about service, and we are specially trained to serve.

Marketing Strategy/Marketing Communications

At Point Broadband, we compete against telecommunications, ISP's and entertainment companies. To win and keep customers we must focus on our distribution channels and service goals. Our most critical tactical tool is our people – they understand that in every interaction they have with the customer, they determine Point Broadband's success. We

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support them with the following concrete tactical tools.

Digital Advertising:

Point Broadband will optimize its brand presence using digital media, SEO, SEM and Social Media. Strategic email campaigns will be used to target B2B clients and SMS messaging will be used to target residential customers.

Print Advertising

1. Direct Mail: utilizing targeted mailing areas we will utilize direct mail to announce new service areas and special promotions to drive in-bound potential customer activity.

2. Newspaper: Promotion and seasonal driven, Point Broadband supports local direct mail and radio promotions with tactical newspaper ads to enhance the promotion.

Advertising

1. Television: both Point Broadband focused and coop advertising on local broadcast stations as well as cross channel on cable inventory will be used to create awareness and promote offers to drive in-bound activity.

Event Marketing

1. Upon the launch of a particular area Point Broadband will send direct mail to each newly serviceable address inviting the residents to a local community event where they can learn about all products and services provided by Point Broadband and will have the opportunity to order service at that time as well.

2. Community events are key to Point Broadband's success in converting customers and supporting the local community. Each event, both commercial and residential will be staffed with quality brand ambassadors who can answer questions and sign up new customers.

3. B2B events will be scheduled and coordinated with local chambers of commerce, business groups, networking events, industry specific events etc....

4. Residential Community events will be scheduled and held in centralized area locations such as; Volunteer Fire Departments, Convenience Stores, etc.

Direct Sales

1. Direct sales: Our Door-to-Door sales program is designed to sell based on value and addressing the customer's needs. Upon the launch of a new area, Point Broadband's street force penetrates new build areas and makes in person presentations. Our Business Account executives focus on high value commercial & enterprise customers with strong revenue potential with long term relationships.

Digital Literacy Efforts

Point Broadband is committed to promoting and marketing digital literacy programs provided by the Applicant and the counties. DLP options may include County Library online programs, agricultural-based DLP education from the county's Agricultural Cooperative Extension office and DLP courses offered through the public school systems in each county. Point Broadband is a participant in the Federal Emergency Broadband Benefit program (EBB) and it allows for a \$50 credit towards internet service for qualifying distressed households.

Anticipated Take Rate

Point Broadband has built their financial model based on a 60% take rate over a 36-month period post construction. This is based on our tracking of sign ups in rural projects with similar demographics in the past 2 years. We completed the Treadway project in 2019 in rural Tennessee. There were 1046 total passings and we have 685 total customers in the project cabinets as of 7/1/2020 (65%). Our Cove Creek project in Tazewell County, VA, was completed in May 2020 and added 155 new passings. We have 68 customers there as of 7/1/2020, (43%), in less than 100 days post construction.

16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co applicant's history and experience with managing grants and constructing broadband communication facilities. Please attach any letters of support from stakeholders. If the applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality. Attachment 11 – Letters of Support.

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Answer:

Name

Title & Organization

Duties/Responsibilities

Background

Aaron Sizemore

Executive Director – Mount Rogers PDC

All Applicant activities and coordinating leverage assistance including but not limited to community promotion, mapping, permitting and digital literacy campaigns.

17 years of experience in project management and collaboration with funders such as Department of Housing and Community Development, Tobacco Commission, Virginia Department of Transportation, Economic Development Administration, Appalachian Regional Commission, and USDA Rural Development.

Joseph Puckett

Regional General Manager – Point Broadband

SWVA/NET

Overall project deliverable for the co-applicant.

10 years of management across multiple industries, including 3 years of leadership in the telecommunications industry in this market.

Noah Maden

General Manager – Point Broadband

Grant reimbursement, tracking and reporting.

15 years of operations experience in the telecommunications industry.

Mark Alldredge

Director of OSP Engineering – Point Broadband

All engineering, final design and permitting for the project.

25 years of engineering and design experience in the telecommunications industry.

Tim Nutter

Construction Supervisor – Point Broadband

All construction activities including but not limited to project schedule, planning and execution.

16 years of construction management experience in the telecommunications industry.

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Taylor Nipper

VP of Marketing – Point Broadband

All marketing activities associated with customer acquisition.

25 years of marketing and sales experience in the telecommunications industry.

Attachment #11 has all letters of support.

17. Project Budget and Cost Appropriateness

Budget: Applicants must provide a detailed budget that outlines how the grant funds will be utilized, including an itemization of equipment, construction costs, and a justification of proposed expenses. If designating more than one service area in a single application, each service area must have delineated budget information. For wireless projects, please include delineated budget information by each tower. Expenses should be substantiated by clear cost estimates. Include copies of vendor quotes or documented cost estimates supporting the proposed budget. Label Attachments: Attachment 12 – Derivation of Costs; Attachment 13 - Documentation of Supporting Cost Estimates. (up to 10 points)

Answer:

Point Broadband has completed a detailed cost estimate based on preliminary engineering and design. The cost estimate is based on the data in Attachment 13 and Attachments 12 is based on that cost estimate.

18. The cost benefit index is comprised of state cost per unit passed. Individual cost benefit scores are calculated and averaged together to create a point scale for a composite score. Provide the following:
- Total VATI funding request
 - Number of serviceable units
(up to 125 points)

Answer:

- \$66,446,228
- \$28,013

Application to DHCD Submitted through CAMS

Mount Rogers Planning District Commission

Mount Rogers Regional Telecom Project Phase2

19. Commonwealth Priorities (Up to 40 points)

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. If applicable, describe the following:

- a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband.
- b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies.
- c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 25/3 mbps.

Answer:

A. There were at least 683 Businesses, Anchor Institutions and others identified in the passings form. This was a combination of field audit, online review, and review with local leaders. There were 19 community centers that will receive free data service for at least 1 year, as well as numerous places of worship that also often serve as community shelters in times of disaster. We identified 287 businesses and at least 22 home-based businesses. Lack of access to broadband often is the prohibiting factor to a home-based business, as well as working from home. Also, Attachment 3 includes documentation of the need for Tele-med and Tele-education services, and how critical broadband access is to both.

Student and residential household internet accessibility is essential to school district ability to support virtual instruction and content delivery; without widespread high-speed residential internet infrastructure availability many students face significant barriers to overall academic success.

Broadband service is essential for public safety agencies. There are many public safety facilities located within the proposed project service area, including, but not limited to, substations, water/wastewater infrastructure, fire and EMS, and solid waste convenience stations.

At present, Smyth, Washington, and Wythe Counties do not require a business license nor levy BPOL taxes, thereby creating a challenge for accurate assessment of the number of home-based businesses located within the project service area. A driving tour of the proposed project service area, combined with a 'google' business search, served as a basis for the estimated number of home-based businesses. Agricultural, particularly cattle and livestock operations, are widely present across the proposed project area and rely on internet connectivity for e-commerce and operational support.

B. Point Broadband has submitted the project shape files to AEP for consideration as a project in the pilot program created by HB 2691. Point Broadband is leveraging its existing backbone and middle mile infrastructure, cost synergies from builds receiving funds from 1 federal programs and to lower the cost per passing for 28,013 addresses currently under and unserved.

C. Point Broadband offers our lifeline data package at 25/5 for \$54.95 and will offer a year of free data service to community centers in the project and first responders in the project. We also have a discount program for faith-based organizations within the project. Point Broadband will also provide at least one free wifi hotspot within each county in the project area. The location will be chosen in partnership with MRPDC with input from each county administrator. Point Broadband is a participant in the federal EBB assistance program that offers a \$50 monthly credit for qualifying distressed households to apply to their broadband billing.

Application to DHCD Submitted through CAMS

Mount Rogers Planning District Commission
Mount Rogers Regional Telecom Project Phase2

20. Additional Information

Provide the two most recent Form 477 submitted to the FCC, or equivalent, as well as point, polygon, and, for wireless providers, RSSI shapefiles for the project area **in .zip file form**. With attachments 17 through 20, attach any other information 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 - Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area
- c. Attachment 16 - For wireless applicants: shapefiles, in .zip file form, indicating RSSI projections in the application area
- d. Attachment 17 – XXXXXXXX
- e. Attachment 18 – XXXXXXXX
- f. Attachment 19 – XXXXXXXX
- g. Attachment 20 – XXXXXXXX

Answer:

- a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 15 - Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area
- c. Attachment 16 - N/A
- d. Attachment 17 - Commonwealth Priorities SWVA Broadband Study and Plan\
- e. Attachment 18 - Mount Rogers VATI commitment letter 2021

Attachments:

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMap9142021115232.pdf

Documentation of Federal Funding (CAF/ACAM/USDA/RDOF, etc...) in and/or near proposed project area.

Attachment2DocumentationofFederalFundingArea9142021115250.pdf

RDOF Awarded Areas included in VATI Application (Use template provided)

Attachment3RDOFAwardedAreasincludedinVATIApplication9142021115311.pdf

Application to DHCD Submitted through CAMS

Mount Rogers Planning District Commission

Mount Rogers Regional Telecom Project Phase2

Documentation that proposed project area is unserved based on VATI criteria

Attachment4DocumentationUnservedAreaVATIcriteria9142021121109.pdf

Passings Form (Use template provided)

Attachment5PassingsForm9142021121247.pdf

Timeline/Project Management Plan

Attachment7TimelineProjectManagementPlan9142021121354.pdf

MOU/MOA between applicant/co-applicant (can be in draft form)

Attachment8MOUMOAbetweenapplicantcoapplicant9142021121403.pdf

Funding Sources Table (Use template provided)

Attachment9FundingSourcesTable9142021121409.pdf

Documentation of Match Funding

Attachment10DocumentationofMatchFunding9142021121417.pdf

Letters of Support

Attachment11LetterofSupport9142021125624.pdf

Derivation of Cost/Project Budget (Use template provided)

Attachment12DerivationofCosts9142021121437.pdf

Documentation of Supporting Cost Estimates

Attachment13DocumentationofSupportingCostEstimates9142021121443.pdf

Two most recent Form 477 submitted to the FCC or equivalent

Attachment14TwomostrecentForm477submittedtotheFCC9142021121452.pdf

Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area

Attachment15PointShapefiles9142021122715.zip

Application to DHCD Submitted through CAMS

Mount Rogers Planning District Commission

Mount Rogers Regional Telecom Project Phase2

Optional

Attachment17CommonwealthPrioritiesSWVABroadbandStudyandPlan9142021121539.pdf

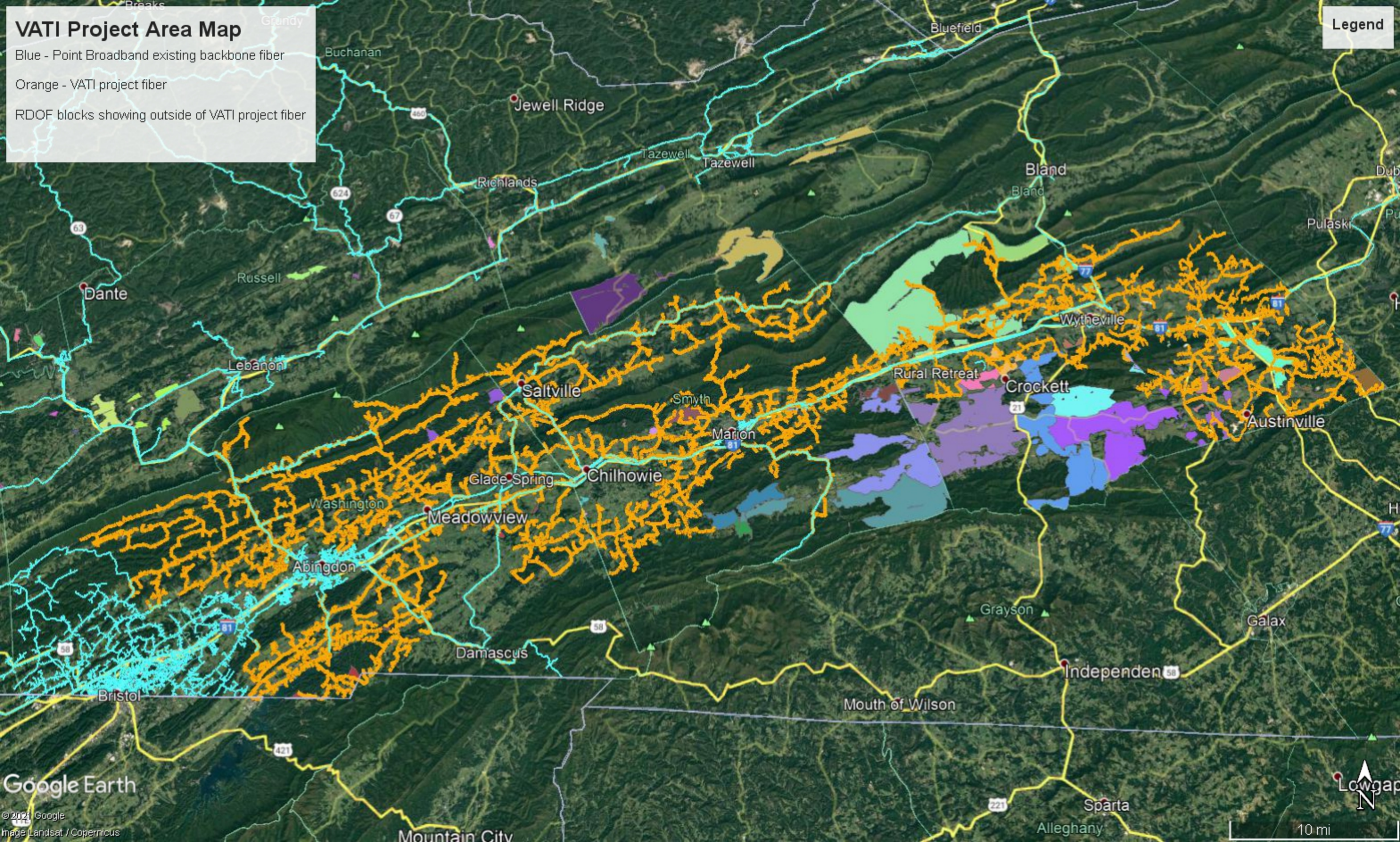
Optional

Attachment18MountRogersVATIcommitmentletter20219142021121555.pdf

VATI Project Area Map

- Blue - Point Broadband existing backbone fiber
- Orange - VATI project fiber
- RDOF blocks showing outside of VATI project fiber

Legend



2022 Virginia Telecommunication Initiative (VATI)

RDOF Passings Form

Type of Passings	Total Number of Passings in the Project Area that lie within Preliminarily Awarded RDOF Areas ¹
Residential	950
Businesses (non-home based)	0
Businesses (home-based)	0
Community Anchors	0
Non-residential	0
Total Number of RDOF Passings	950

*Note: The Total Number of RDOF Passings **MUST** be equal to the Residential, Business (non-home based), Non-residential and Community Anchors sum.*

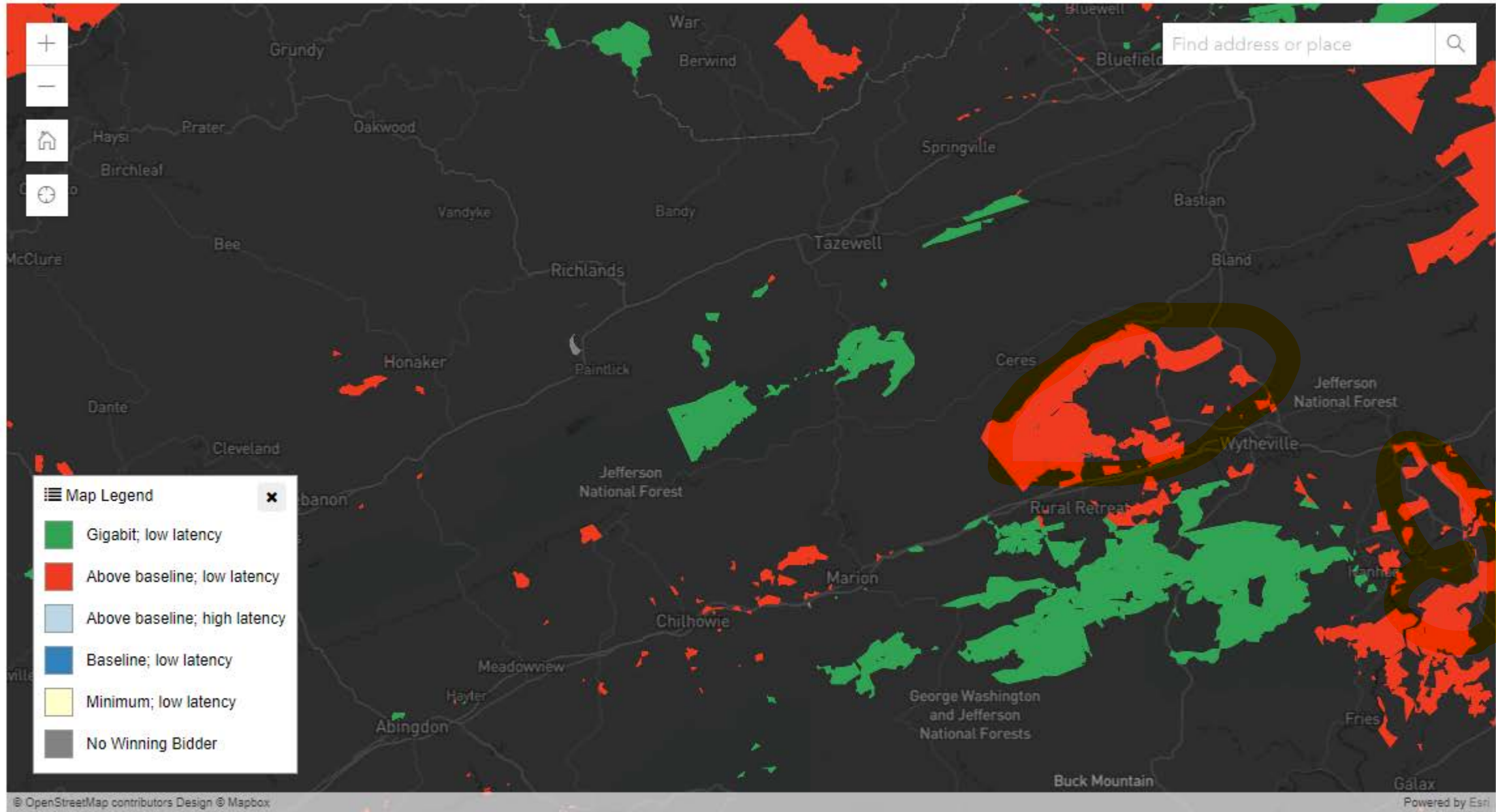
Definitions

Passing – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

Business – An organization or entity that provides goods or services in order to generate profit. Businesses based in residential homes can count if they are a registered business (BPOL, LLC, etc.).

Community Anchor - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater use of broadband service by vulnerable populations, including low-income, unemployed, and the aged.

Non-Residential Passing – places of worship, federal, state, or local facilities or other potential customers that are neither a residence, business or a community anchor as defined above.



In the Rural Digital Opportunity Fund Phase I auction ([Auction 904](#)), 180 bidders won \$9.2 billion over 10 years to provide broadband to 5.2M locations in 49 states and the Commonwealth of the Northern Mariana Islands.

The colors on the map represent the different levels of service associated with the winning bids in [Auction 904](#). The [service tier](#) is based on download speed, upload speed, usage allowance, and latency.

Coordinates 36.73804, -82.230075

Alum Wells
Zenobia
Ravens Nest

© Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511910103004041

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Ravens Nest, VA

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Places

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- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

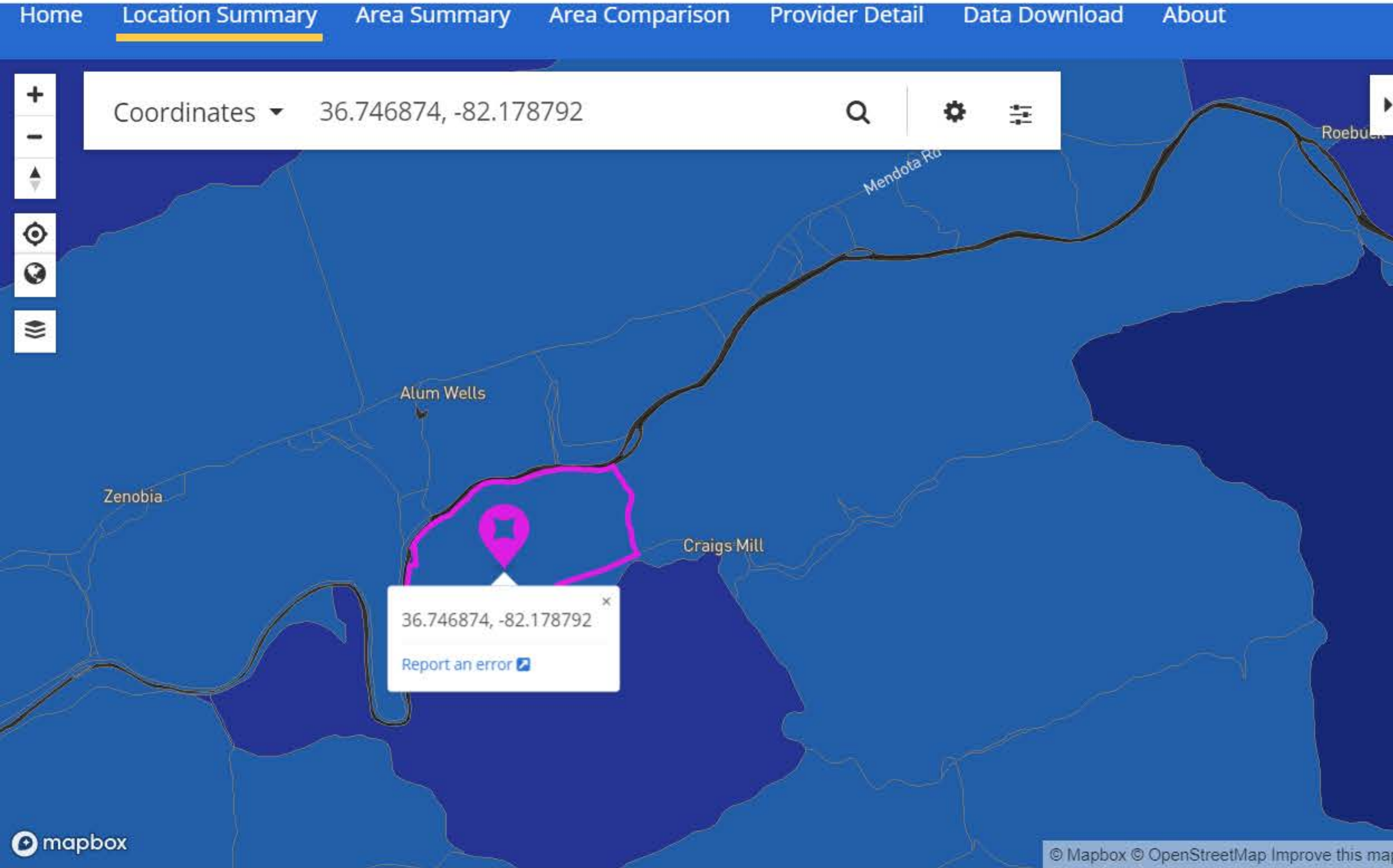
Willow Springs
Alum Wells
Zenobia
Ravens Nest
Pines Island
Holston
Withers
Fleenors

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Google Earth

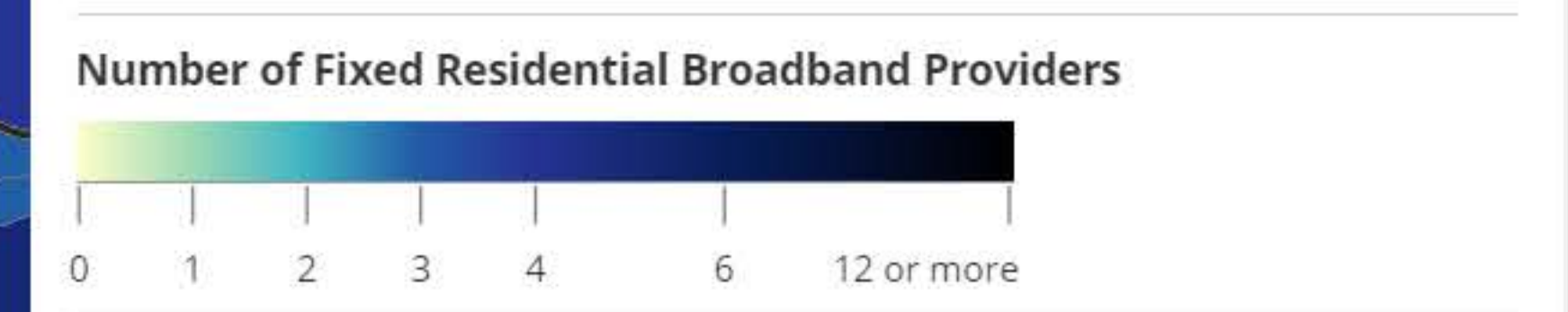
2.29 mi

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All Providers Reporting Service

Census block ID: 511910103003014



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

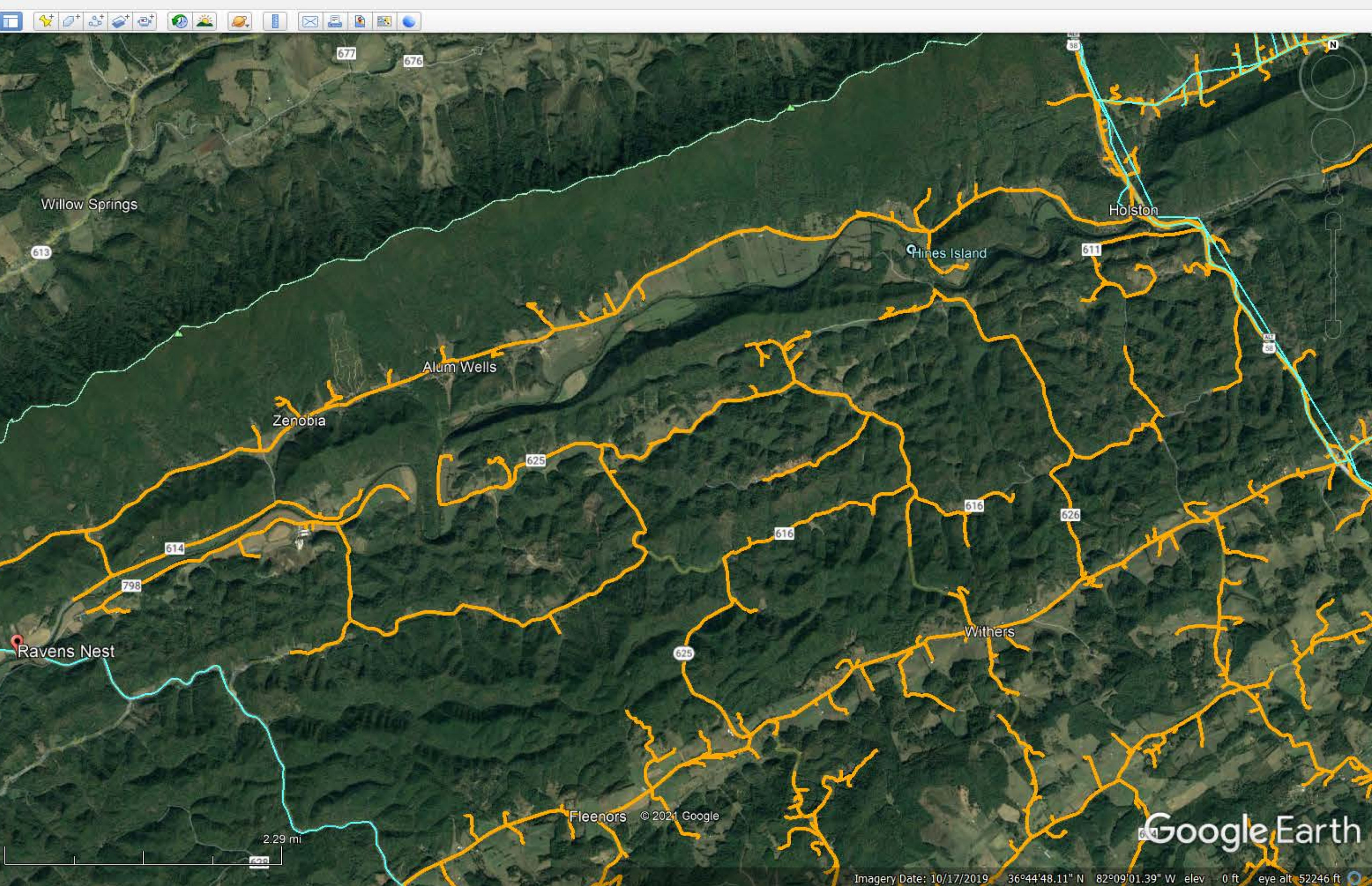
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Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- New Layers
- Borders and Labels
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- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Location Summary | Fixed Broadband

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.757809, -82.147183

All Providers Reporting Service

Census block ID: 511910103003010

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
CenturyLink, Inc.	ADSL	1.5	0.5

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- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
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- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
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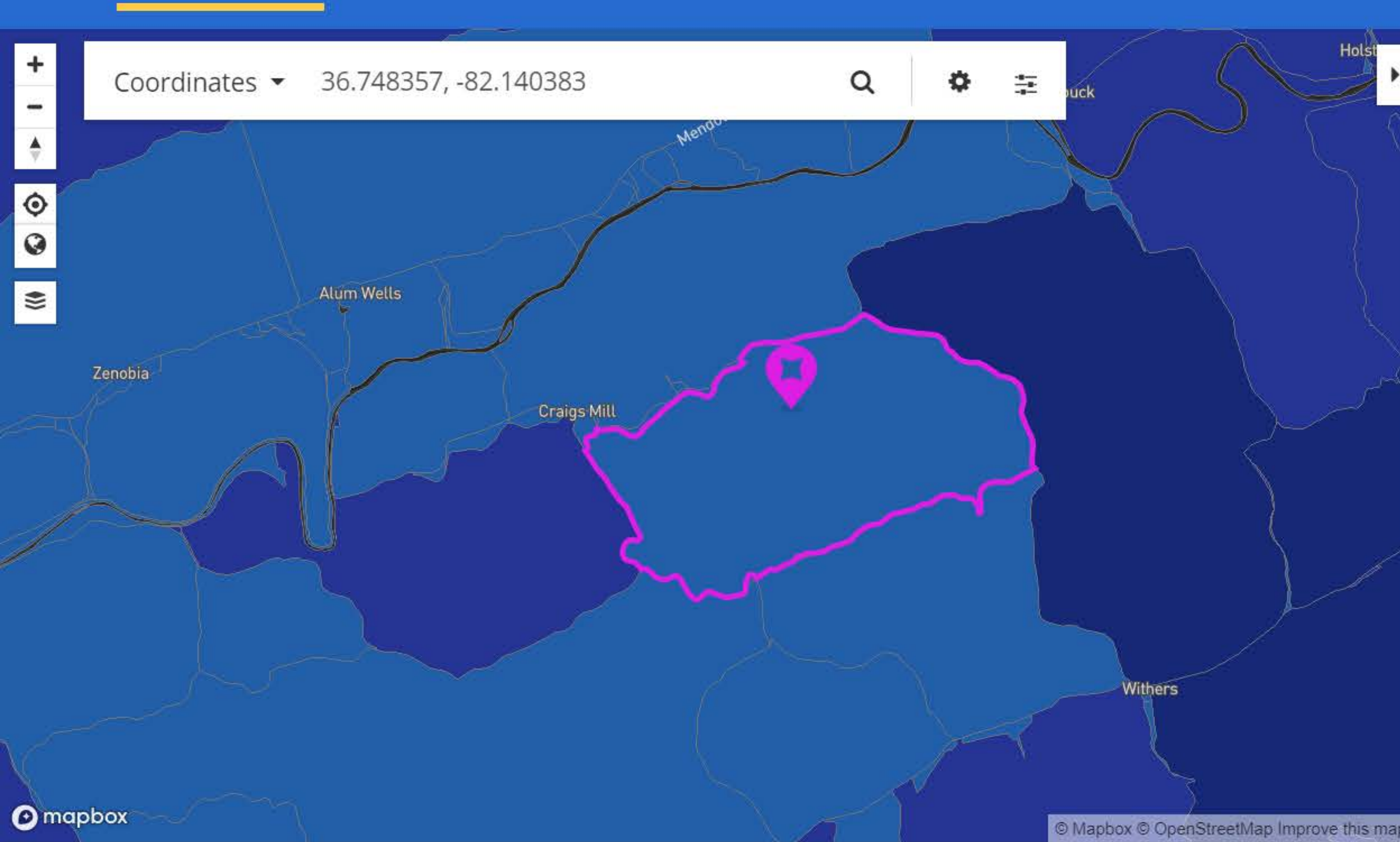
Layers

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- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Map showing broadband network (orange lines) overlaid on a satellite map of the Ravens Nest, VA area. Labels include Alum Wells, Zenobia, Ravens Nest, Fleenors, Withers, and Willow Springs. A scale bar indicates 2.29 miles.

Imagery Date: 10/17/2019 36°44'48.11" N 82°09'01.39" W elev 0 ft eye alt 52246 ft

10:50 AM 9/12/2021



All Providers Reporting Service

Census block ID: 511910103003031

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3

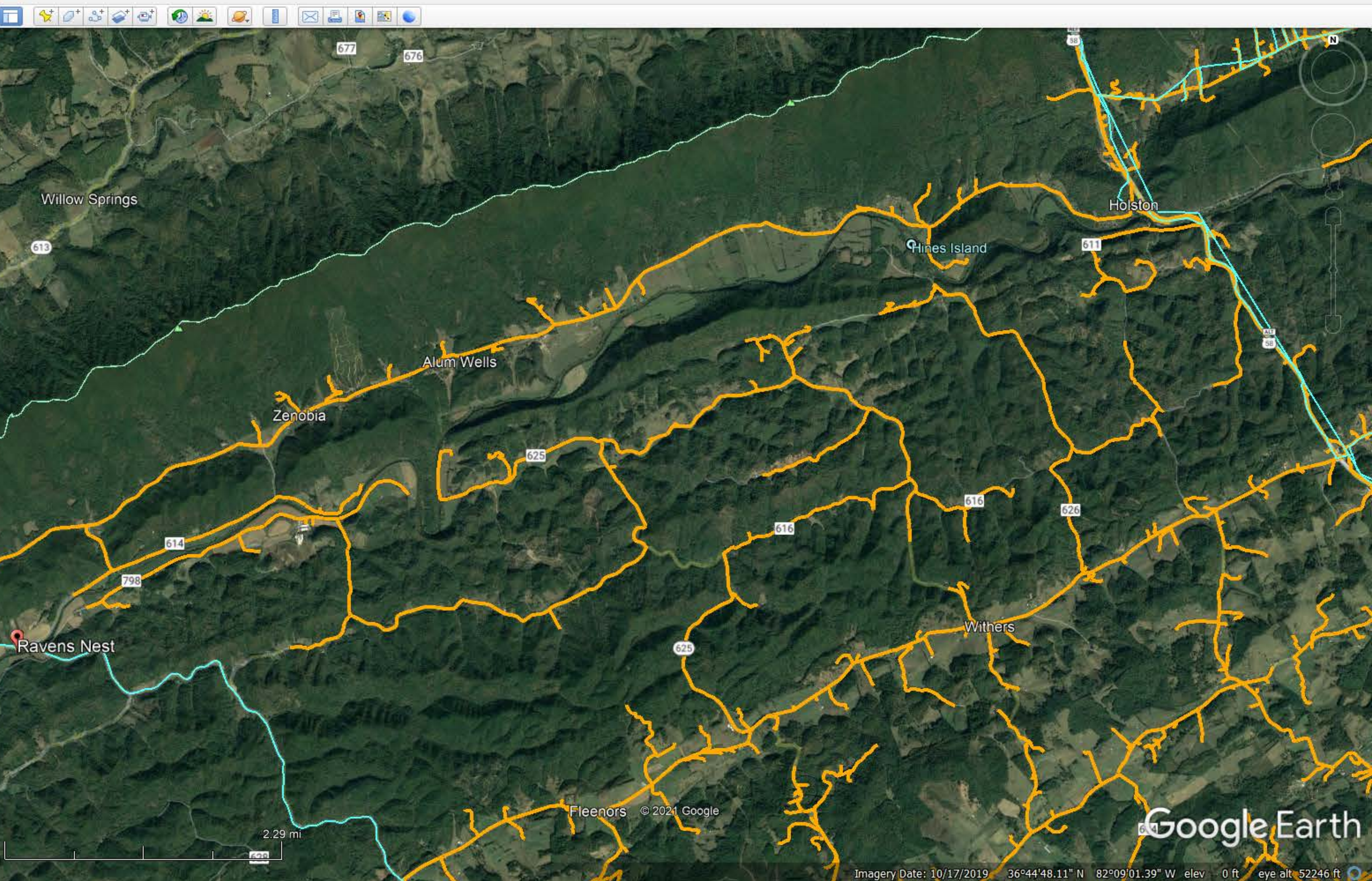
Search Ravens Nest, VA

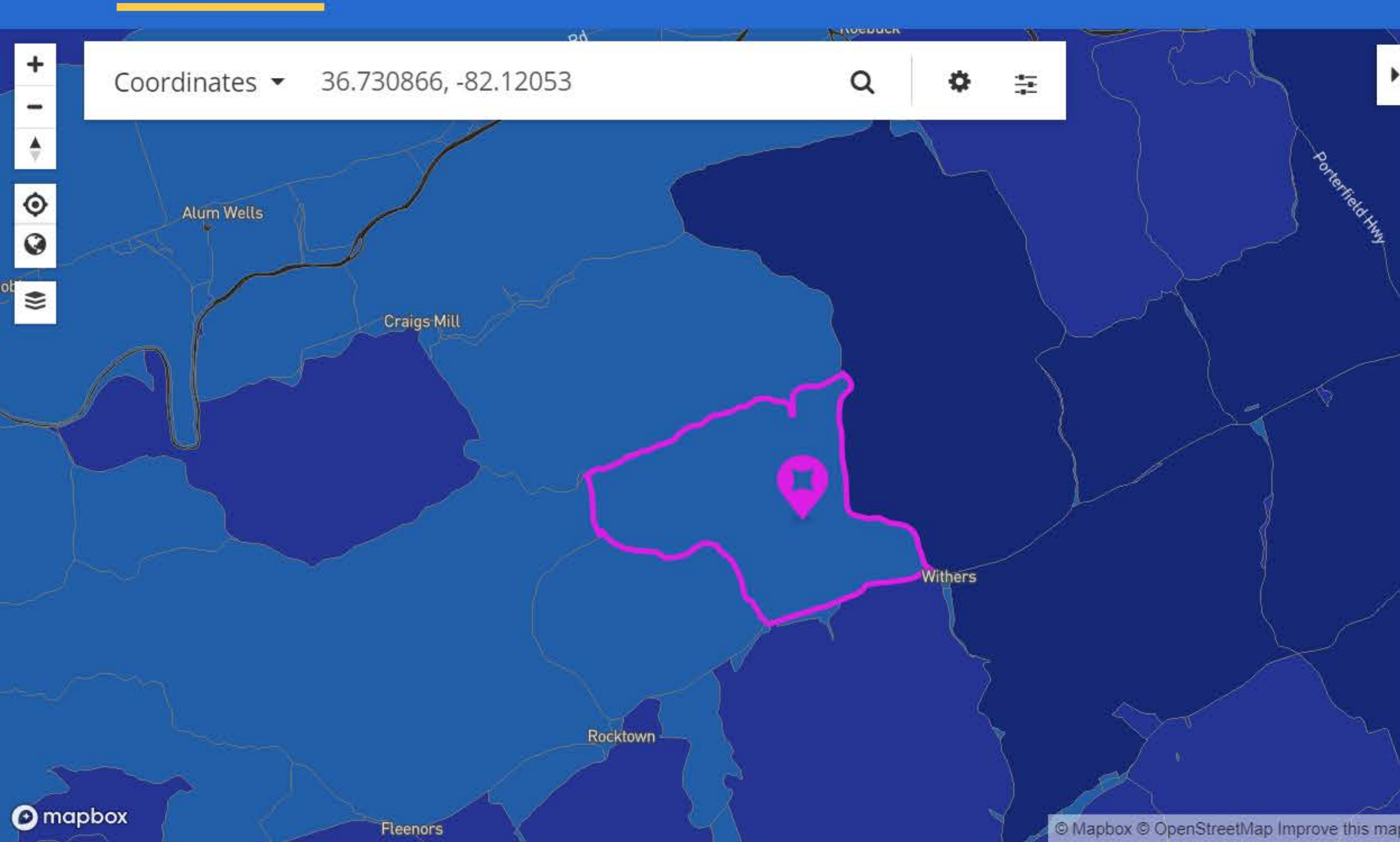
Places

- My Places
- Sightseeing Tour
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- Cable Layers
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- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





All Providers Reporting Service

Census block ID: 511910103003066

Number of Fixed Residential Broadband Providers

Broadband

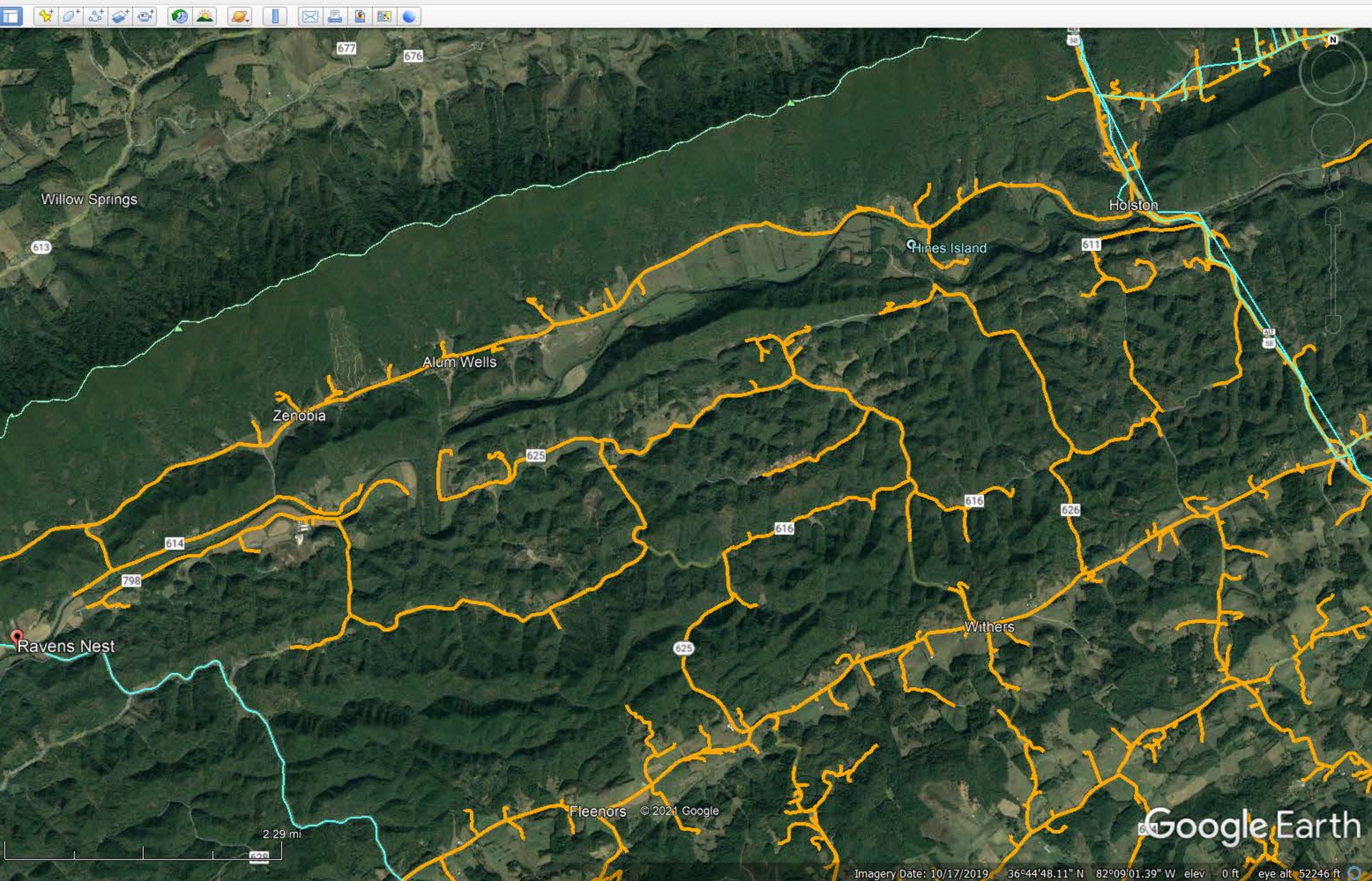
Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

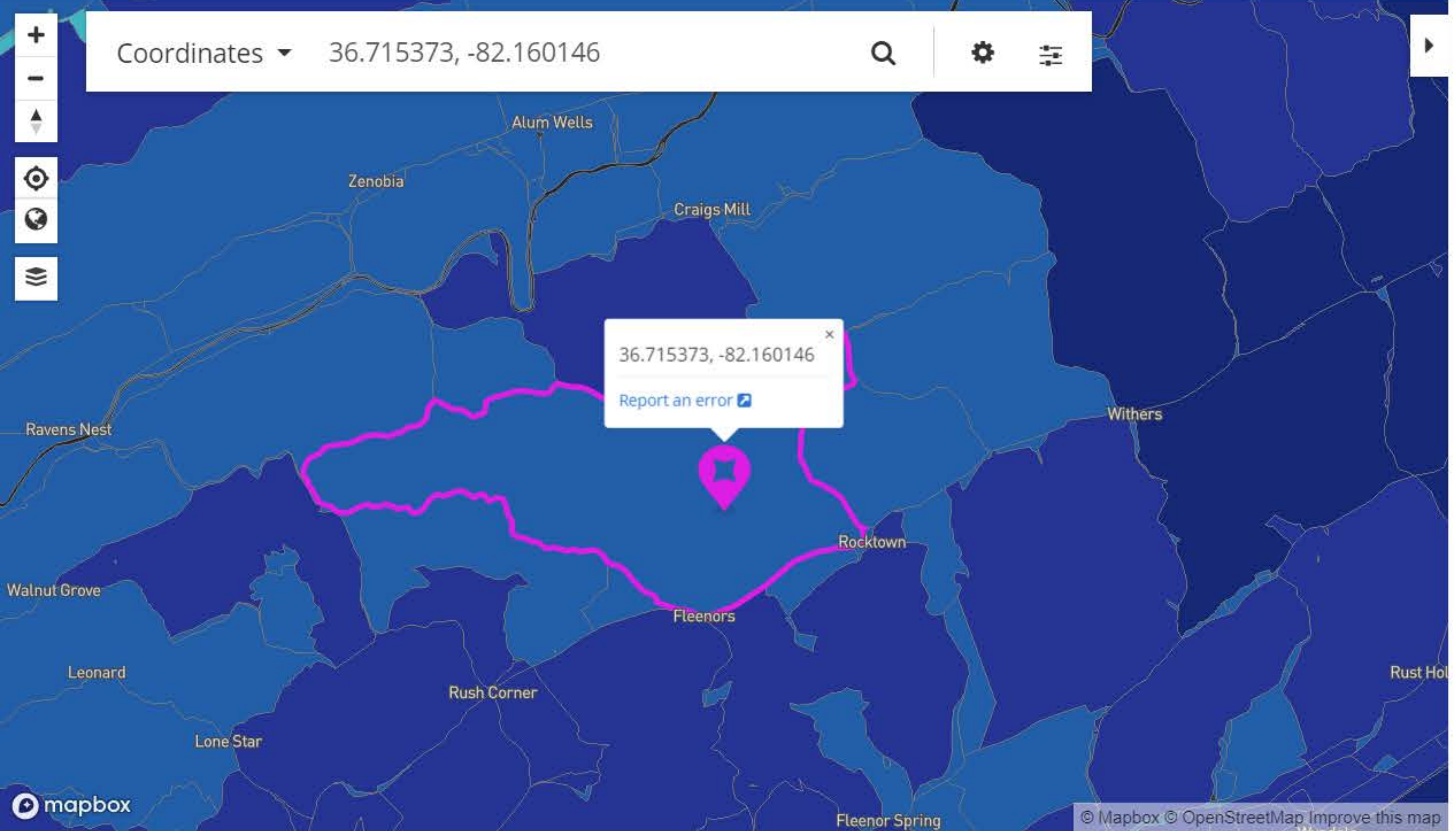
Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	15	0.75
VSAT Systems, LLC	Satellite	2	1.3

Search Ravens Nest, VA

Places

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 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
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 - Terrain





All Providers Reporting Service

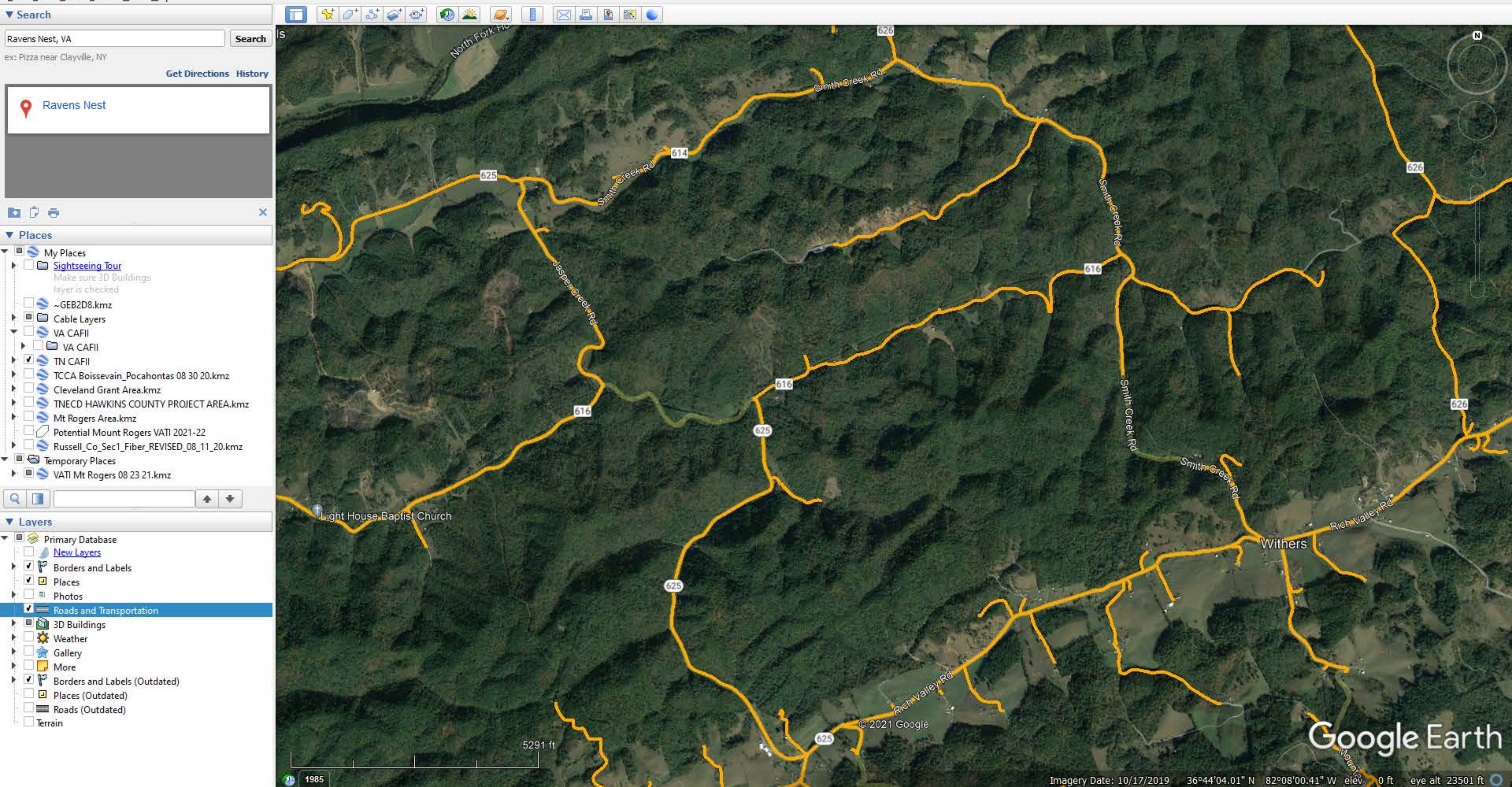
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Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	0.768
VSAT Systems, LLC	Satellite	2	1.3



Location Summary | Fixed Broadband

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.693655, -82.145397

Rocktown
Fleenors
Rush Corner
Fleenor Spring
Burson Place

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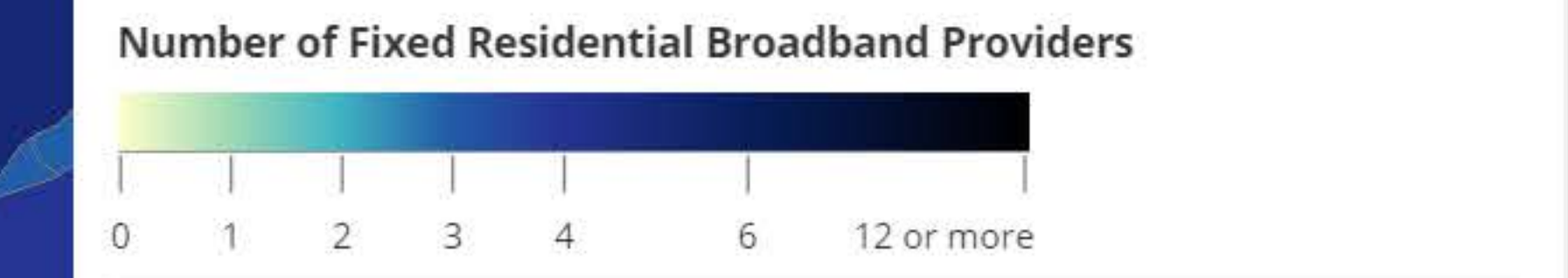
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Census block ID: 511910103003079



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	3	0.5
VSAT Systems, LLC	Satellite	2	1.3

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- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
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- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- Places
- Photos
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- 3D Buildings
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- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Memorial Church
Fleenors
Wyrdale

Google Earth

Imagery Date: 10/17/2019 36°42'01.95" N 82°07'12.04" W elev 0 ft eye alt 24942 ft

10:51 AM 9/12/2021

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.686788, -82.114869

All Providers Reporting Service

Census block ID: 511910103003113

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	15	0.768
VSAT Systems, LLC	Satellite	2	1.3

Search: Countiss Road, Abingdon, VA

Get Directions History

Countiss Rd

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
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- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- 3D Buildings
- Weather
- Gallery
- More
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- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

36°41'24.71" N 82°05'36.00" W elev 0 ft eye alt 17952 ft

Location Summary | Fixed Broadband

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.705473, -82.031384

All Providers Reporting Service

Census block ID: 511910104022031

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

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Search: Countiss Road, Abingdon, VA
 ex: Pizza near Clayville, NY

Countiss Rd

Get Directions History

Places

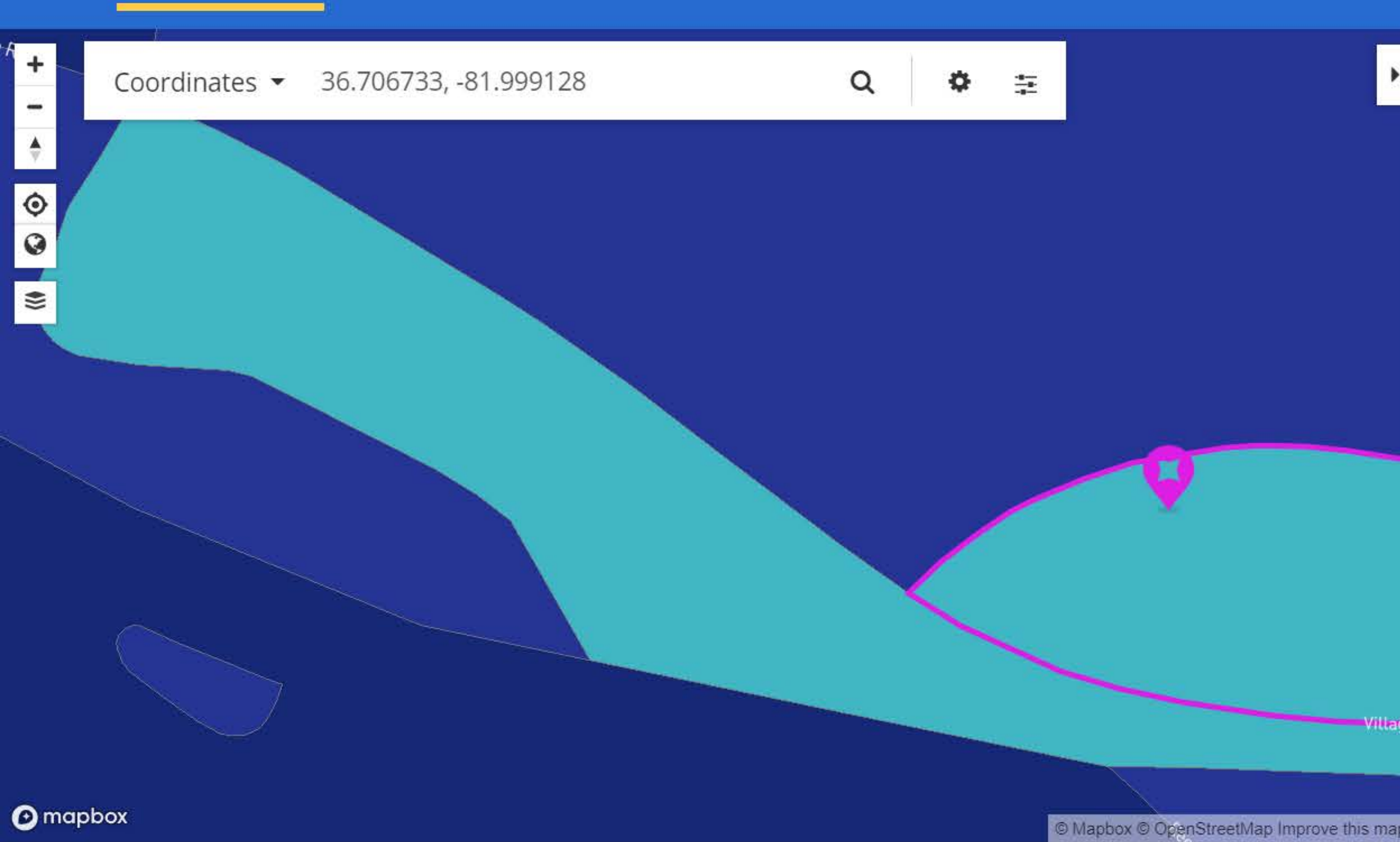
- My Places
- Sightseeing Tour
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- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
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- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

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All Providers Reporting Service

Census block ID: 511910104022049

Number of Fixed Residential Broadband Providers

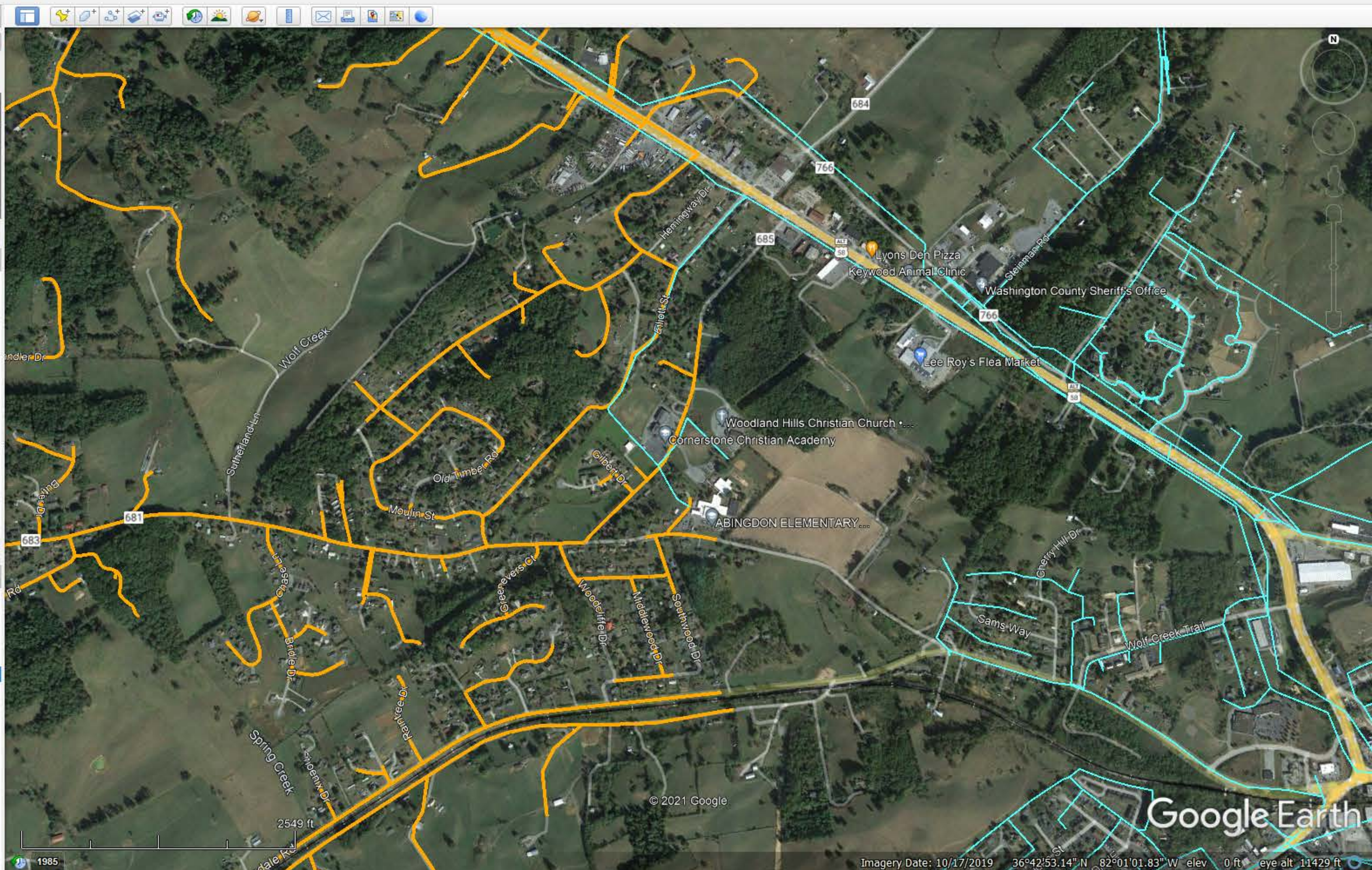
Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	3	0.5
VSAT Systems, LLC	Satellite	2	1.3

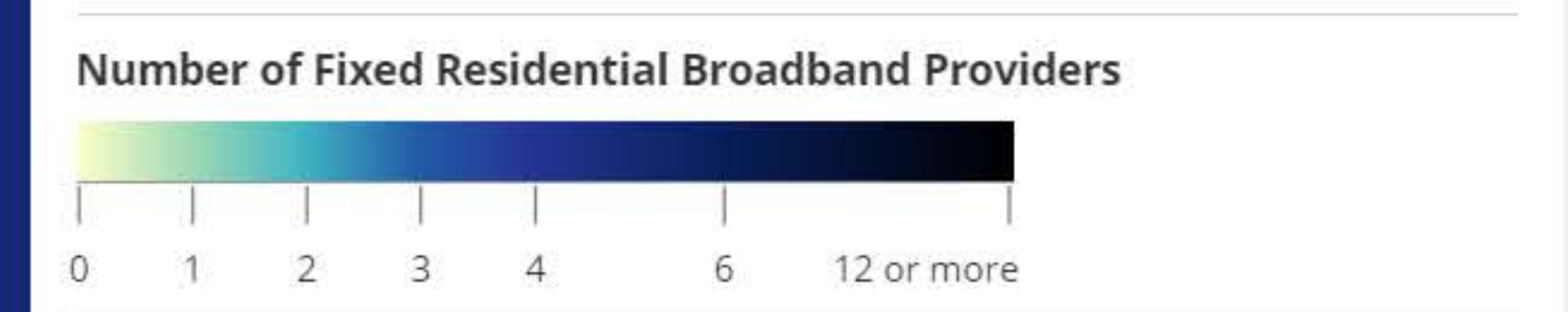


Coordinates 36.726574, -82.009729

© Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511910104021002



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

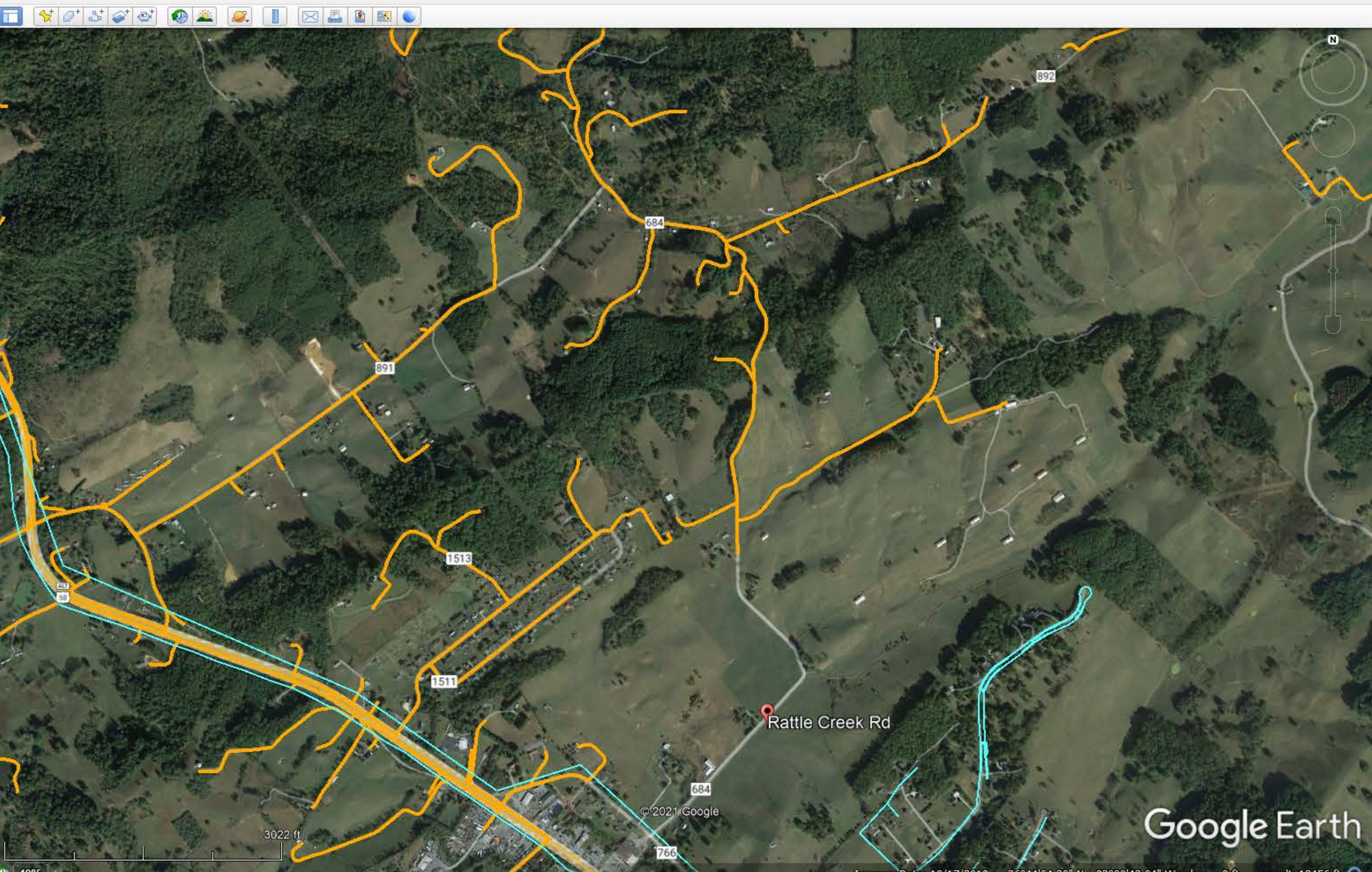
Search: Rattle Creek Road, Abingdon, VA

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

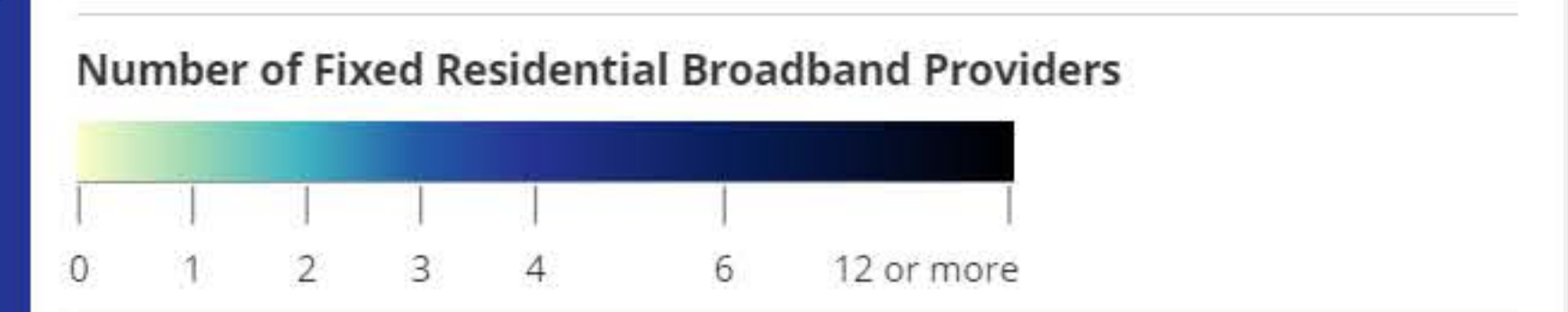
- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Coordinates 36.740404, -81.985559

All Providers Reporting Service

Census block ID: 511910104021014



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

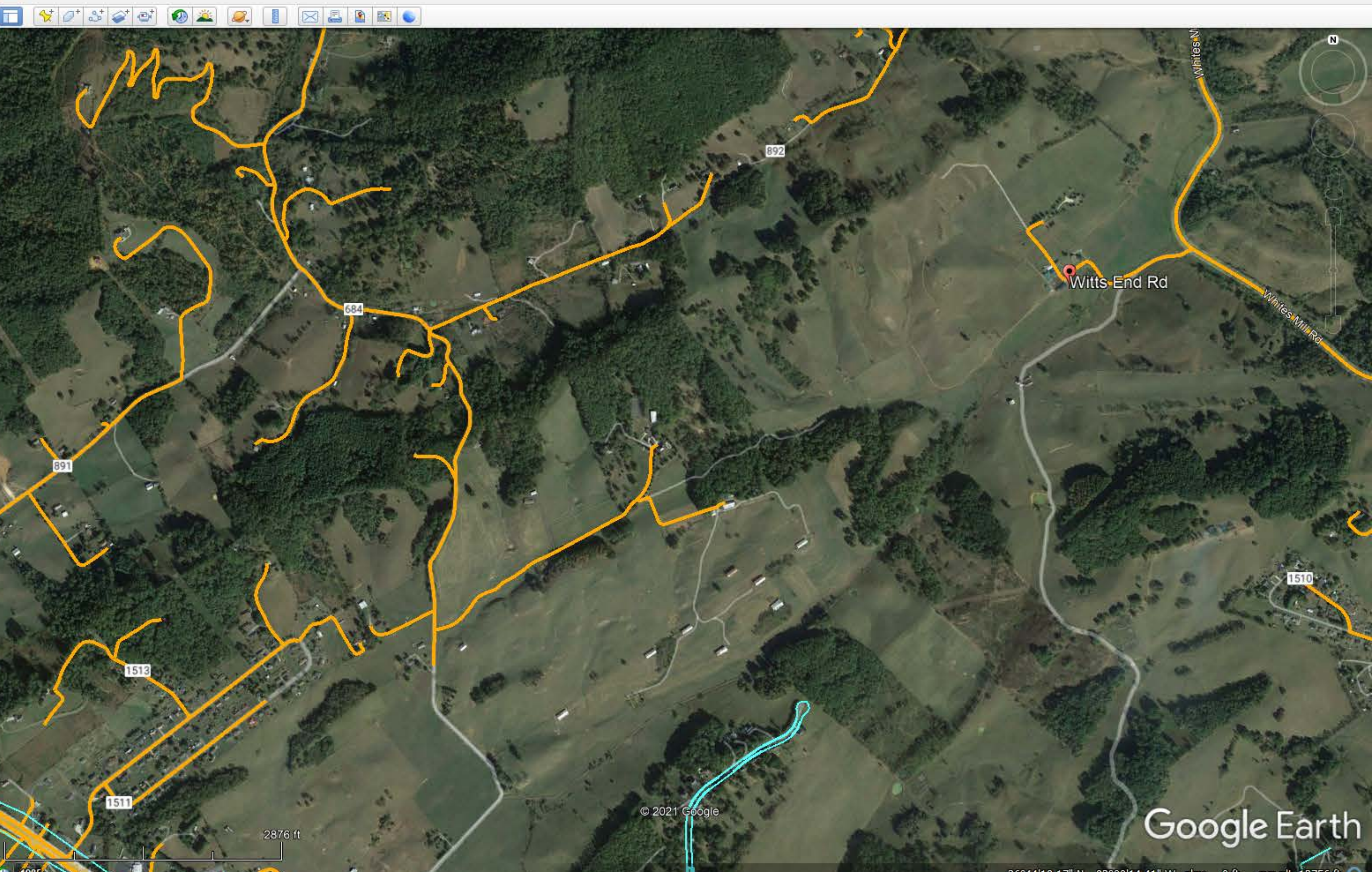
Search: Witts End Road, Abingdon, VA

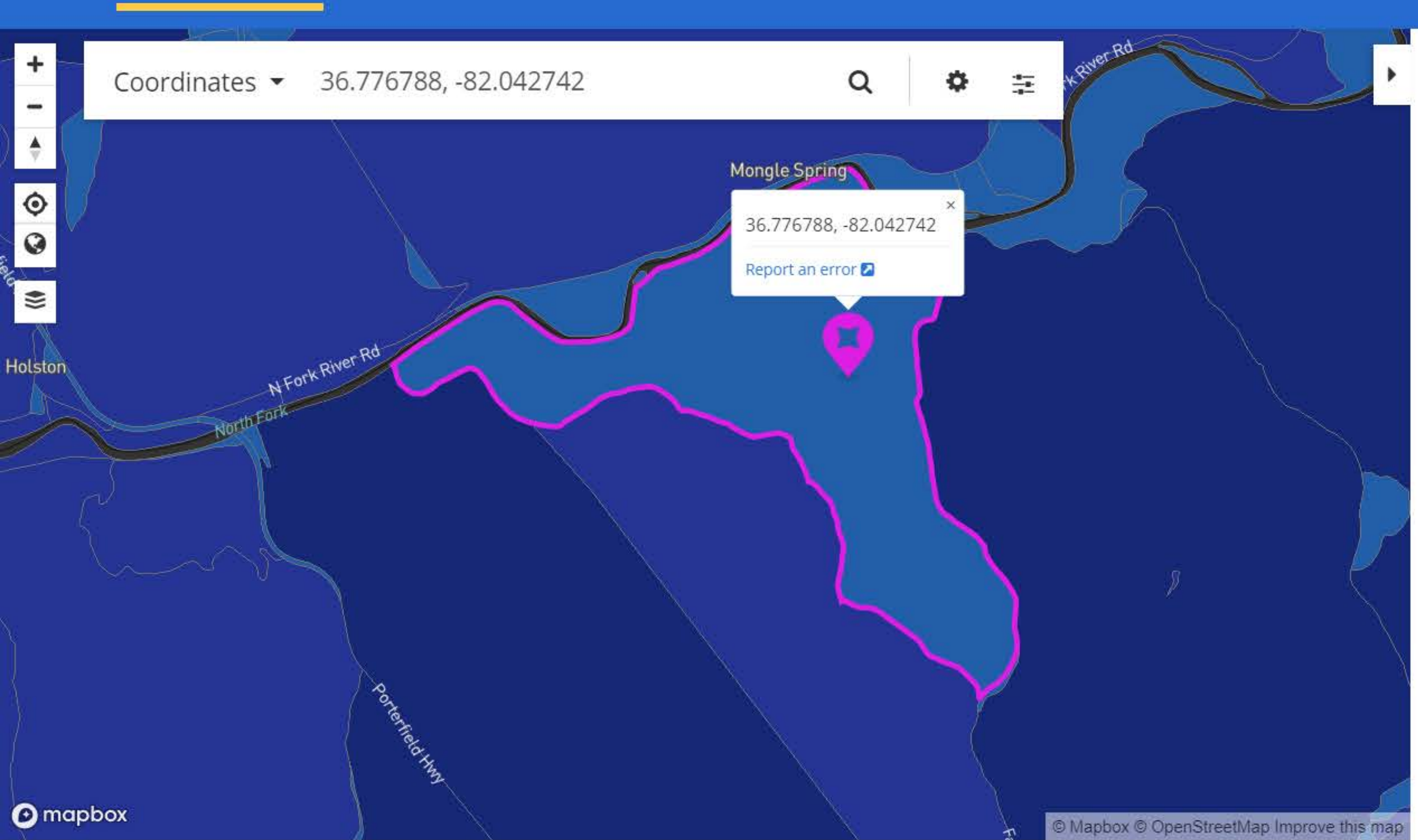
Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





All Providers Reporting Service

Census block ID: 511910103002126

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3

Search Mongle Spring, VA
ex: Pizza near Clayville, NY

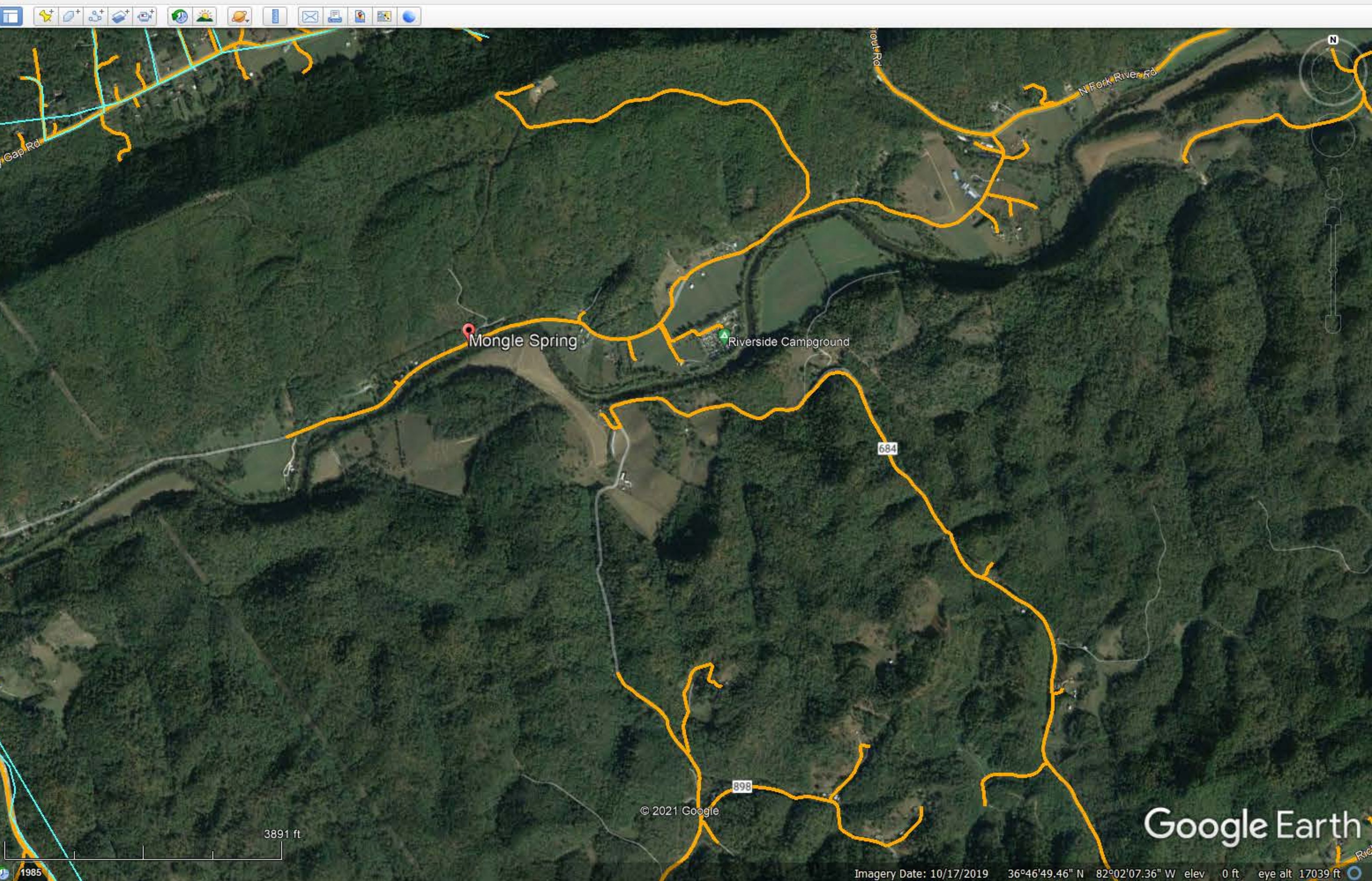
Get Directions History

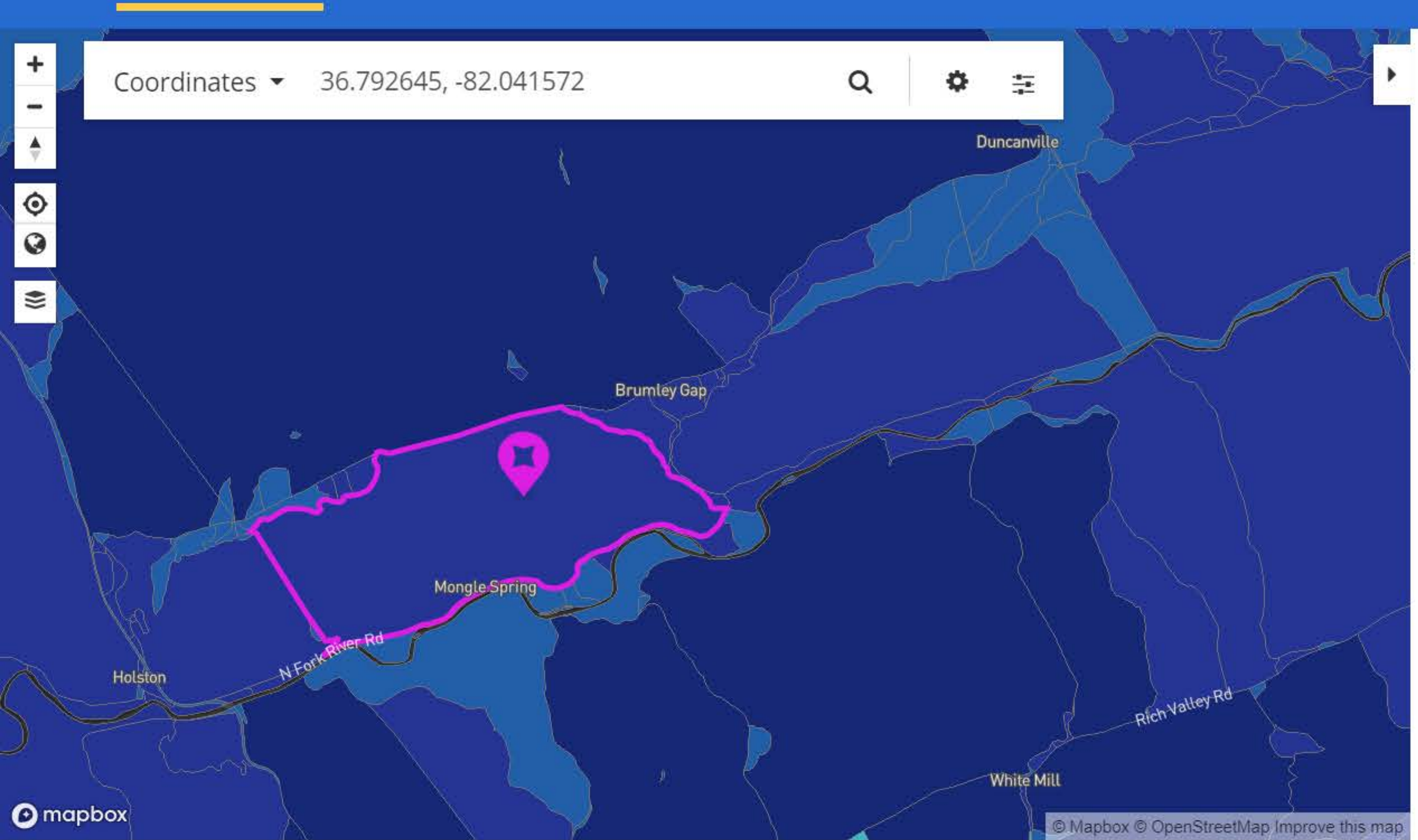
Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





All Providers Reporting Service

Census block ID: 511910103002034

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
CenturyLink, Inc.	ADSL	60	5
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Mongle Spring, VA

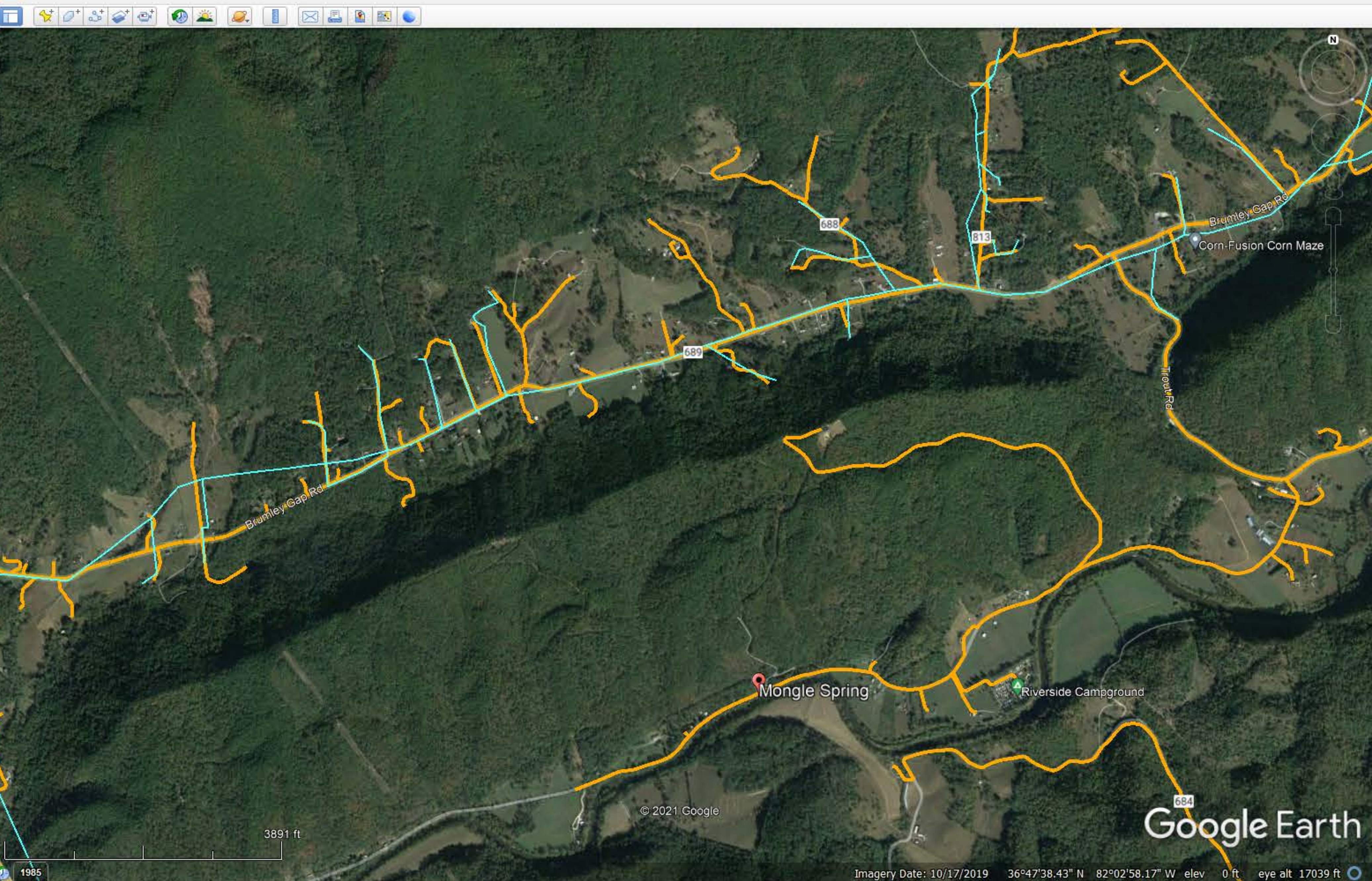
Get Directions History

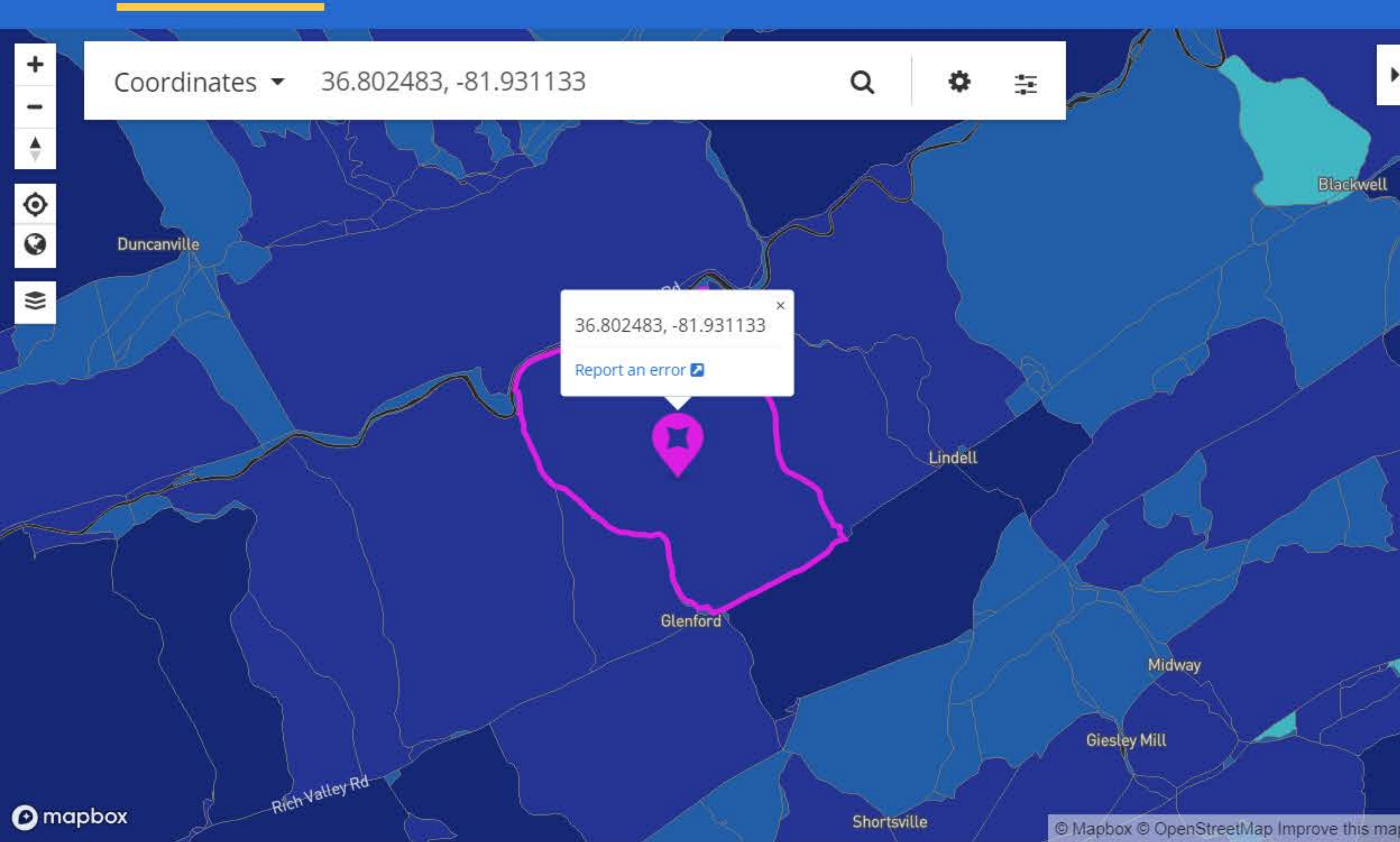
Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





All Providers Reporting Service

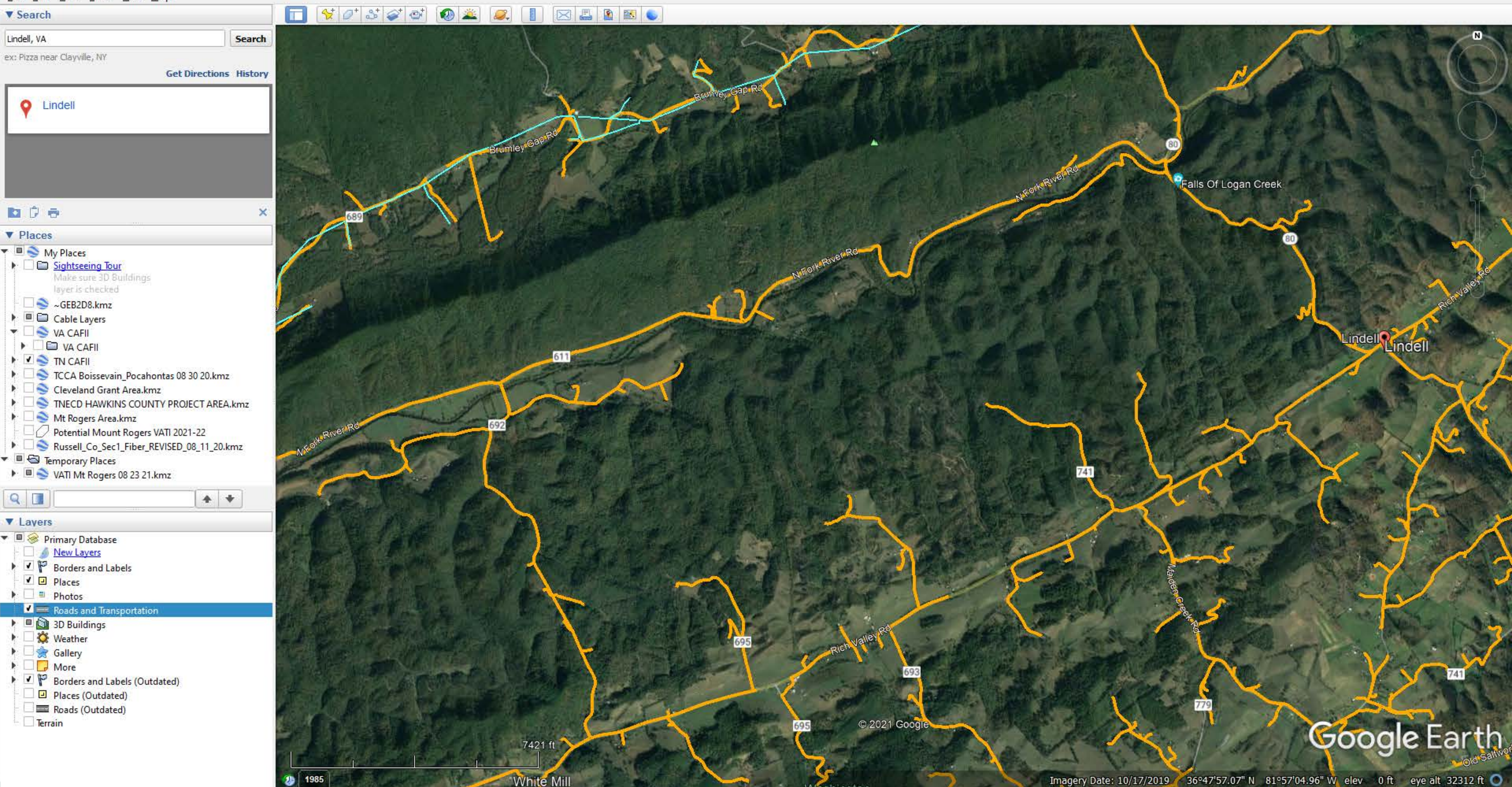
Census block ID: 511910103001121

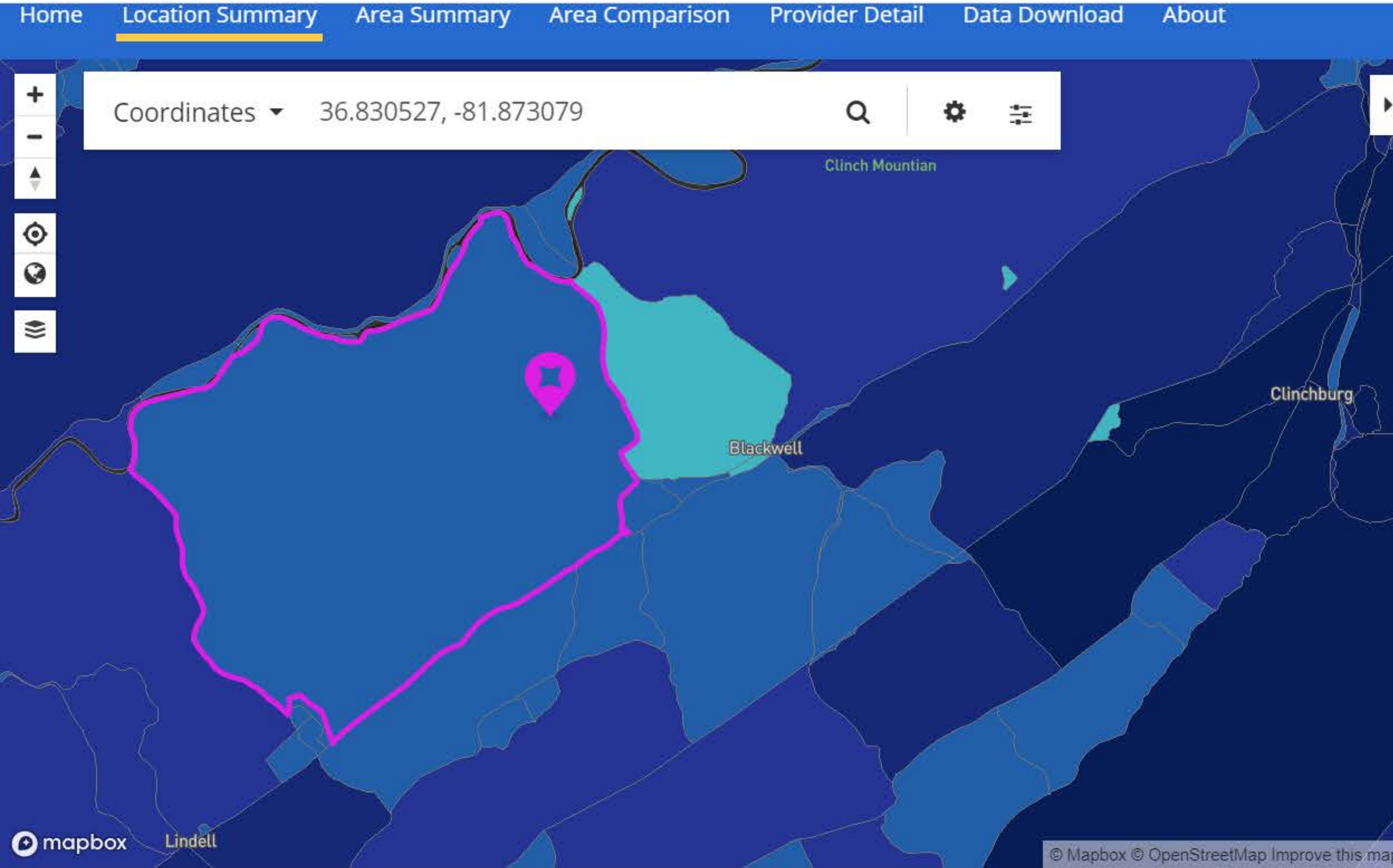
Number of Fixed Residential Broadband Providers

Broadband

Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed: ≥ 25/3 Mbps
 Date: June 2020 (latest public release)

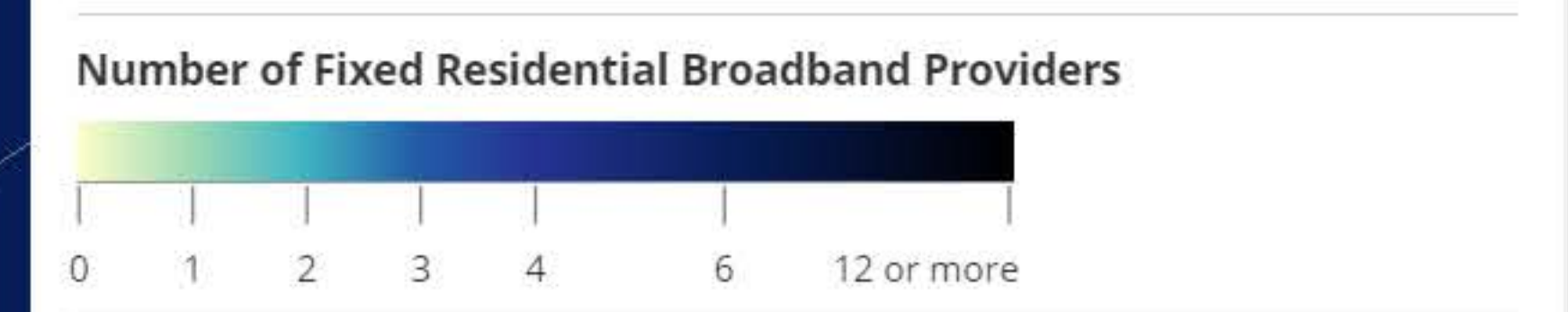
Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
CenturyLink, Inc.	ADSL	100	10
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3





All Providers Reporting Service

Census block ID: 511910103001100



Broadband
 Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3

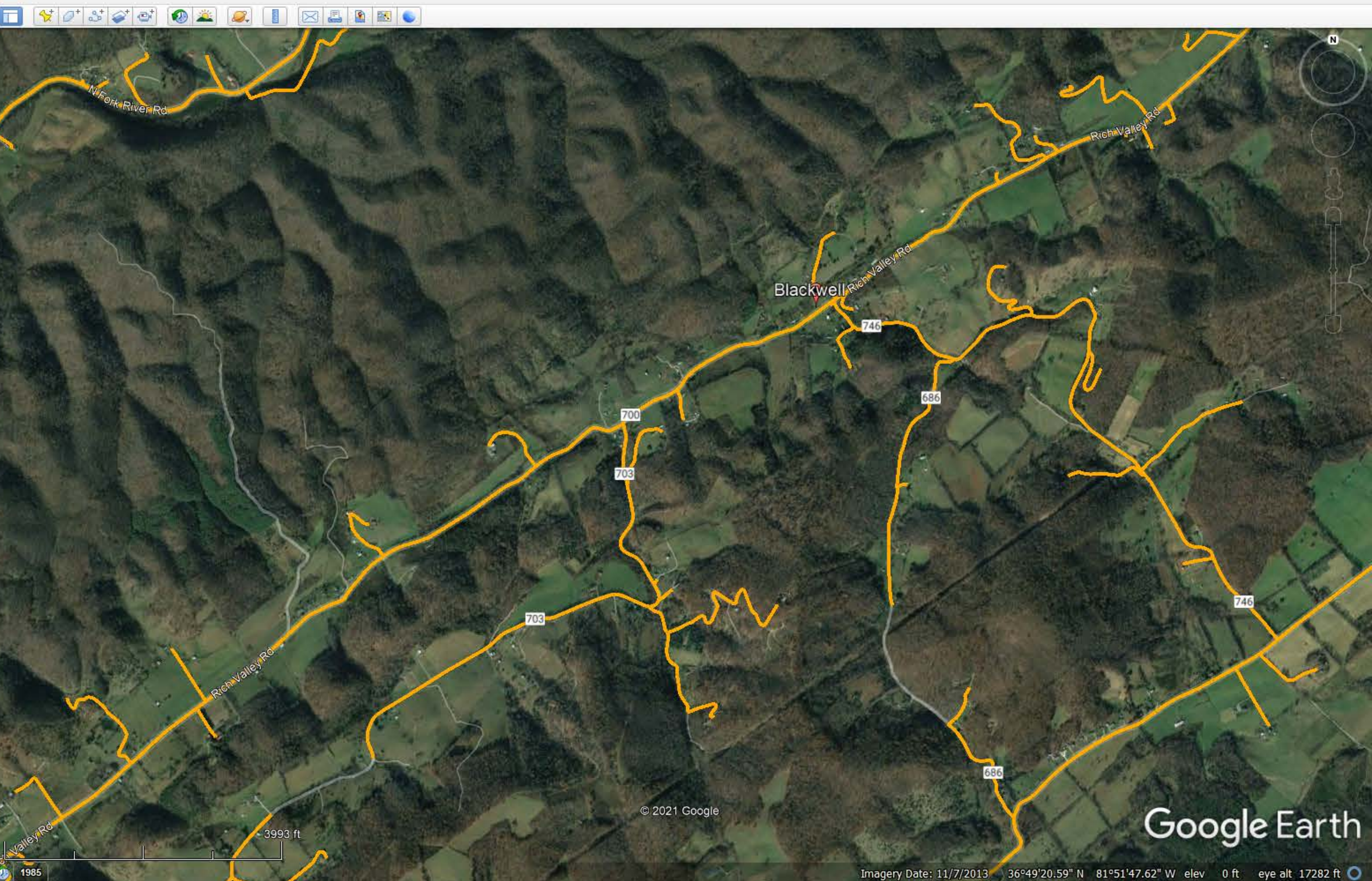
Search Blackwell, VA

Get Directions History

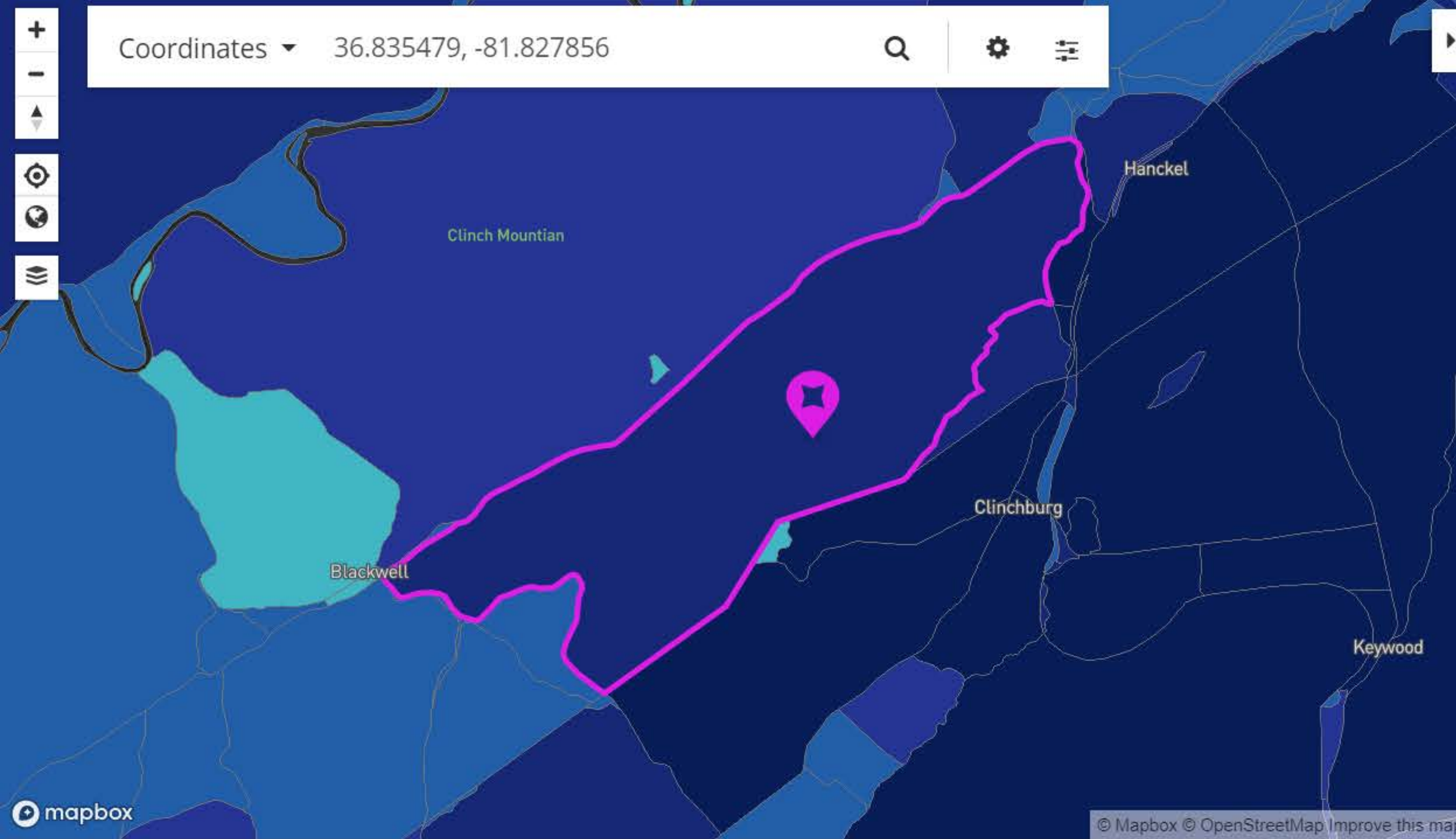
Blackwell

- Places
- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
 - Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

- Layers
- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



Coordinates 36.835479, -81.827856



All Providers Reporting Service
 Census block ID: 511910107001078



Broadband
 Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
CenturyLink, Inc.	ADSL	60	5
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
CenturyLink, Inc.	ADSL	25	2
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

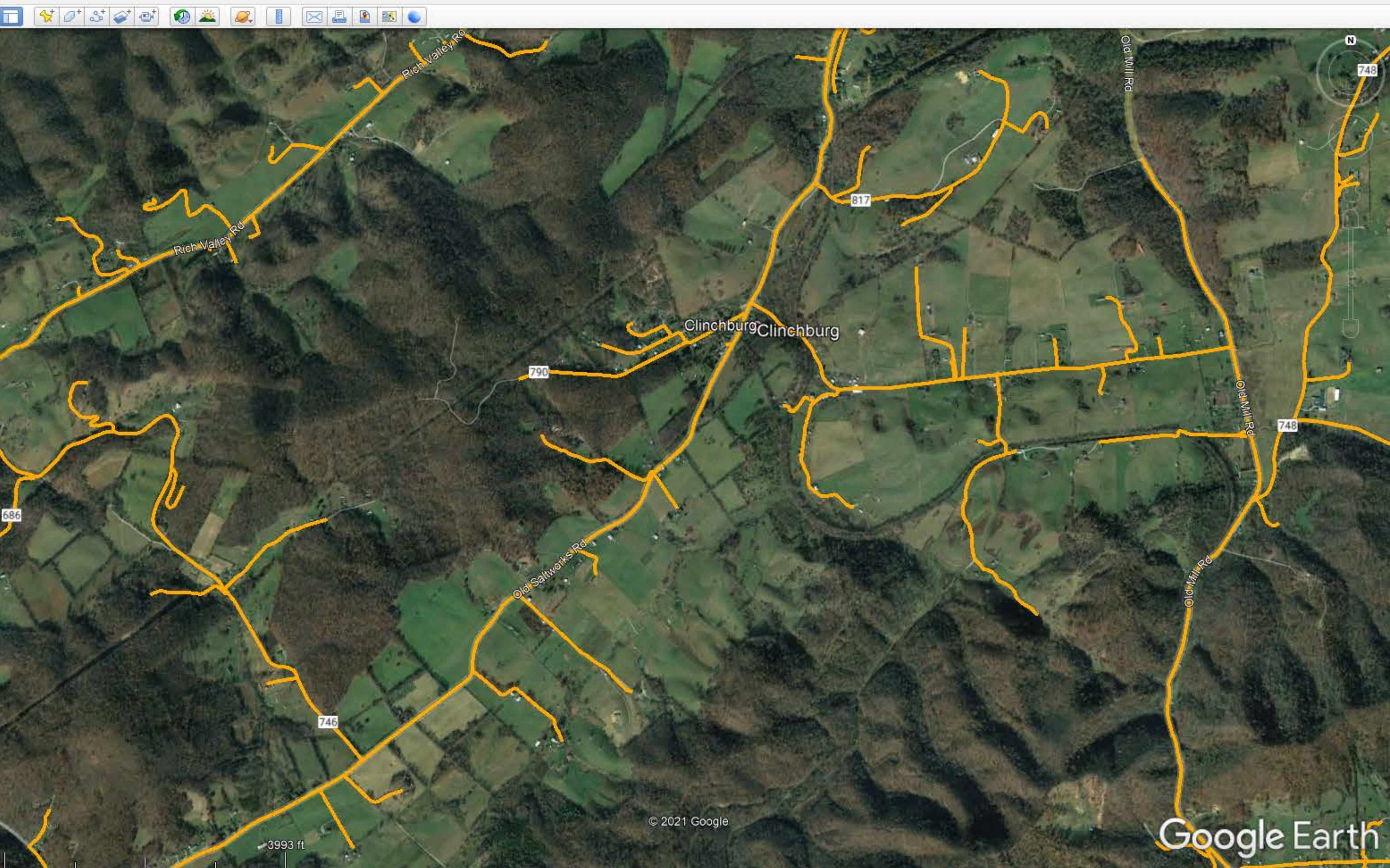
Search: Blackwell, VA

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

Airplane mode off

Coordinates 36.859088, -81.803186

All Providers Reporting Service

Census block ID: 511910107001041

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Blackwell, VA

ex: Pizza near Clayville, NY

Get Directions History

Blackwell

Places

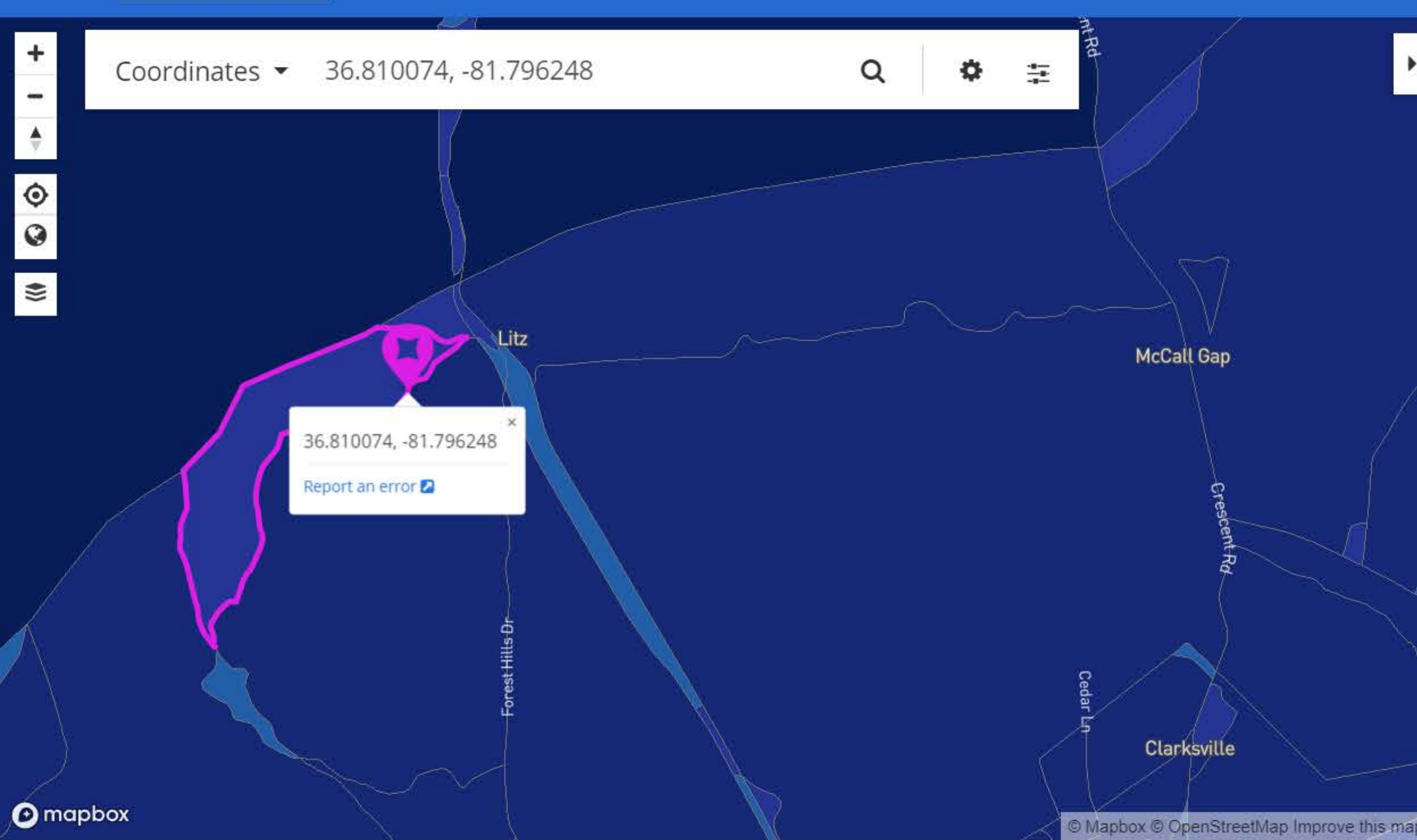
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 36°50'33.96" N 81°47'11.06" W elev 0 ft eye alt 17282 ft



All Providers Reporting Service

Census block ID: 511910107001105

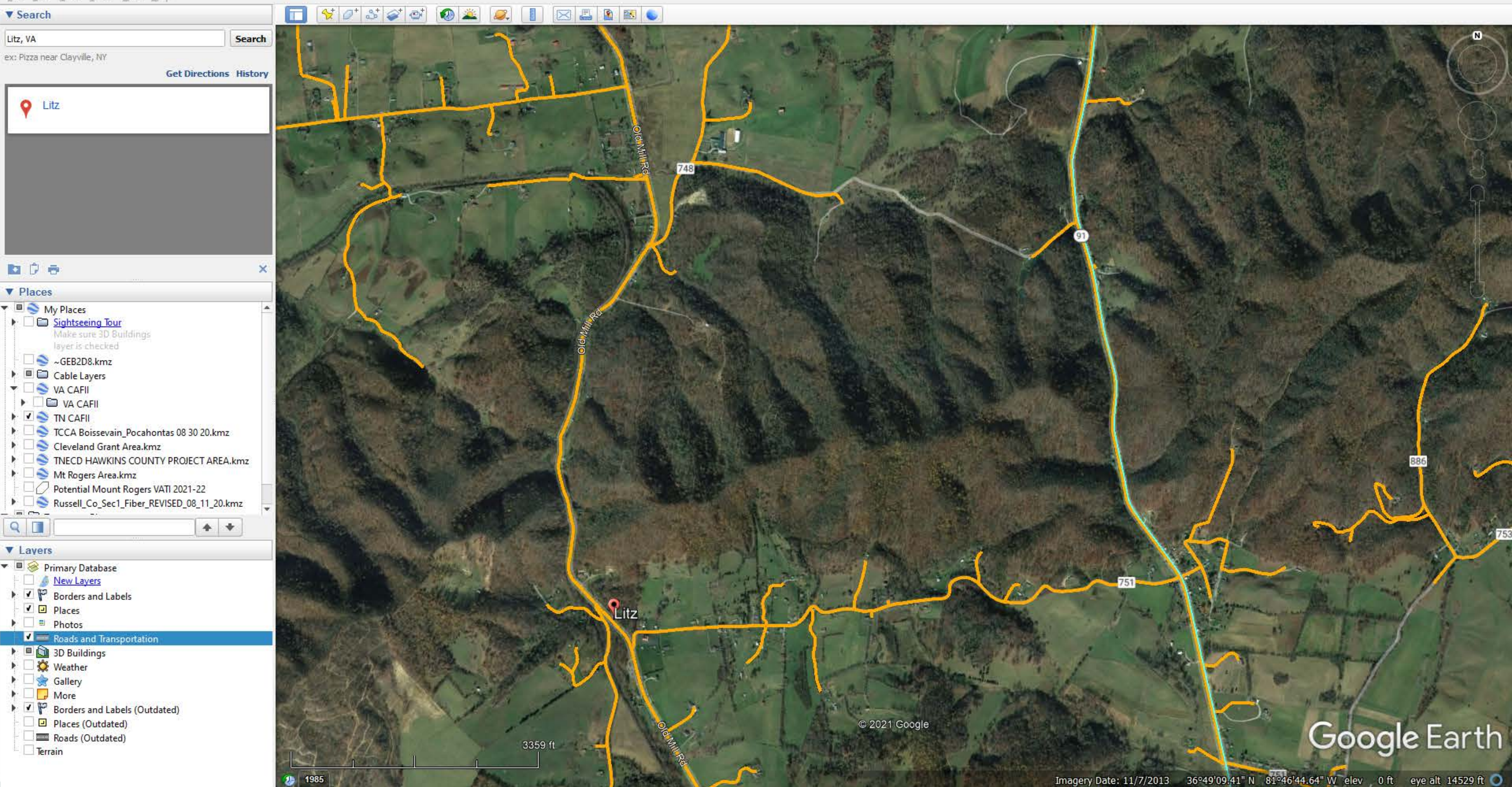
Number of Fixed Residential Broadband Providers

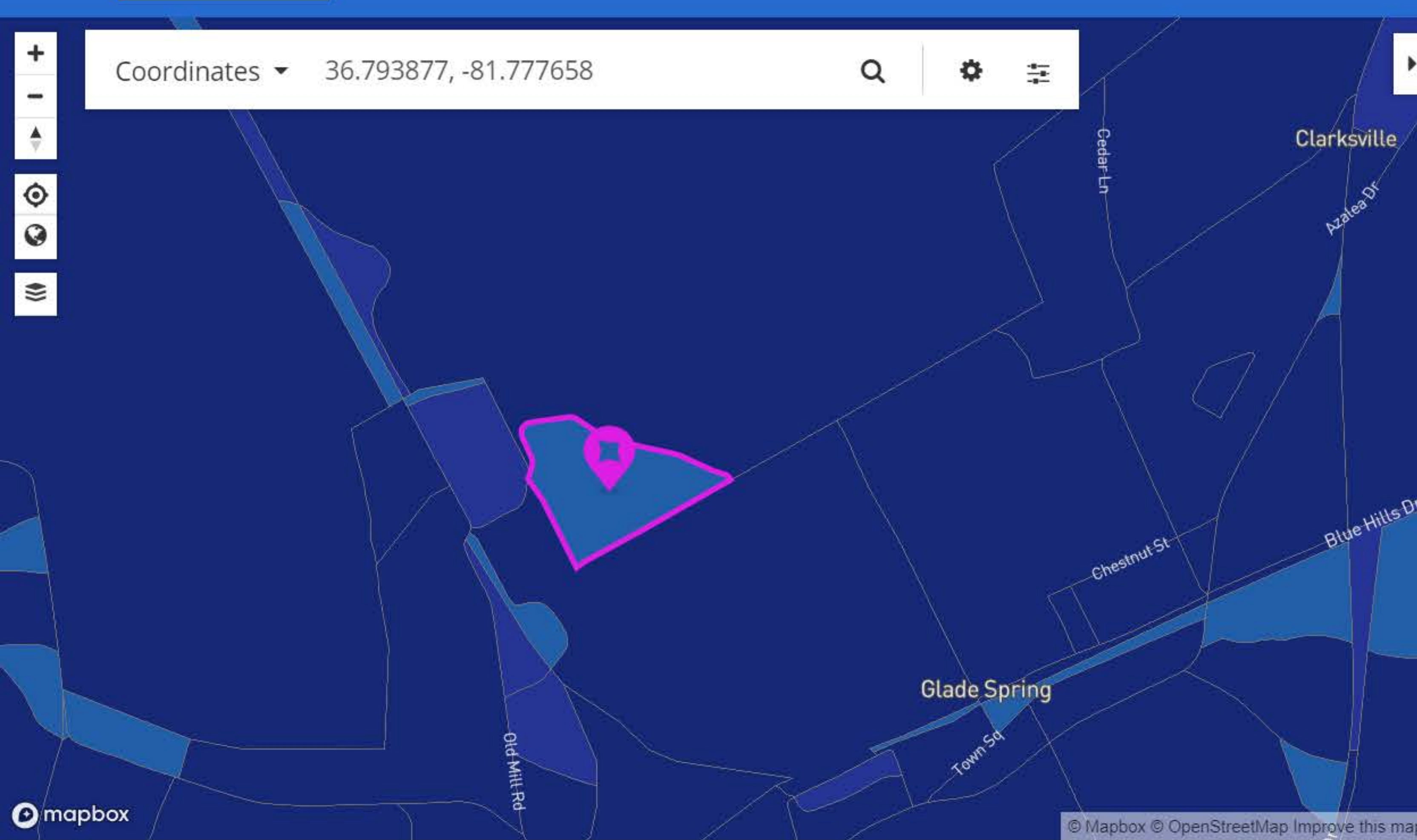
0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3





All Providers Reporting Service

Census block ID: 511910107002076

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search

Litz, VA

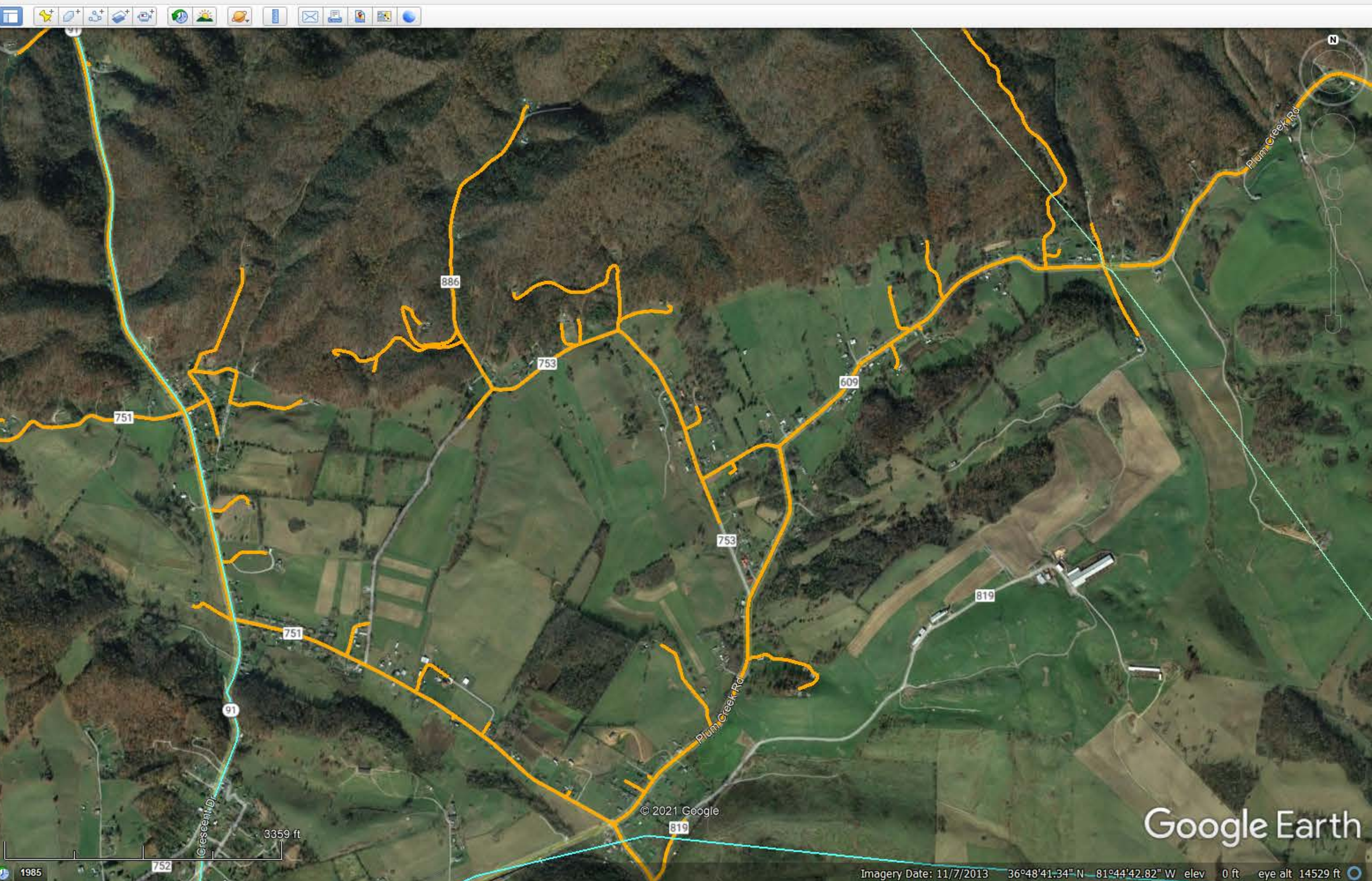
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.803433, -81.755293

Call Gap

36.803433, -81.755293
Report an error

Plum Creek

Washington Spring Rd

Crescent Rd

mapbox

© Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511910107002051



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	3	0.64
VSAT Systems, LLC	Satellite	2	1.3

Search Plum Creek Road, Glade Spring, VA

Plum Creek Rd

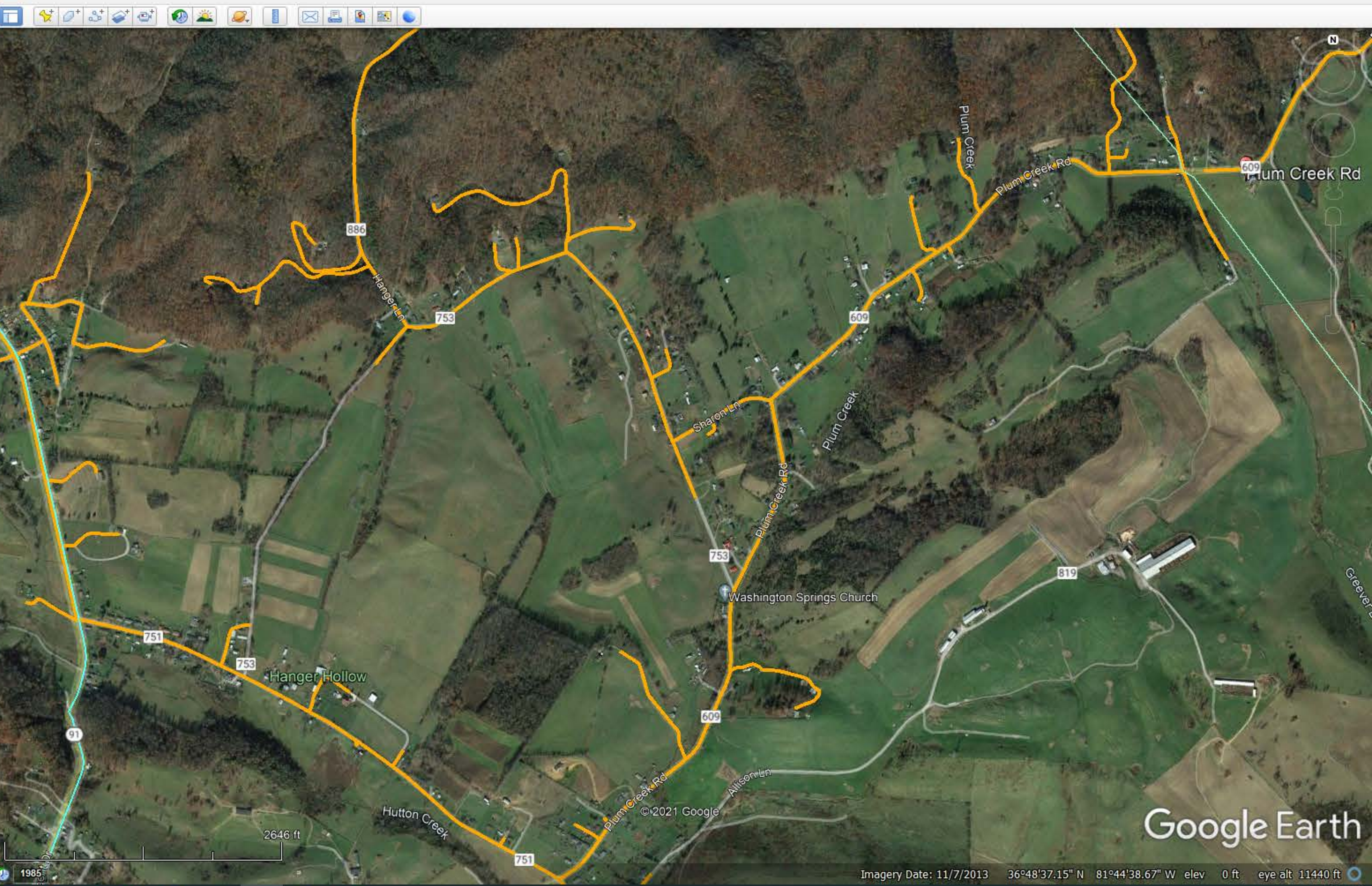
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Coordinates 36.763066, -81.739167

Price Hill

mapbox

© Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511910107003076

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Plum Creek Road, Glade Spring, VA

Plum Creek Rd

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Price Hill

Kelly Chapel Rd

Kelly Chapel

Friendship Rd

Loves Mill Rd

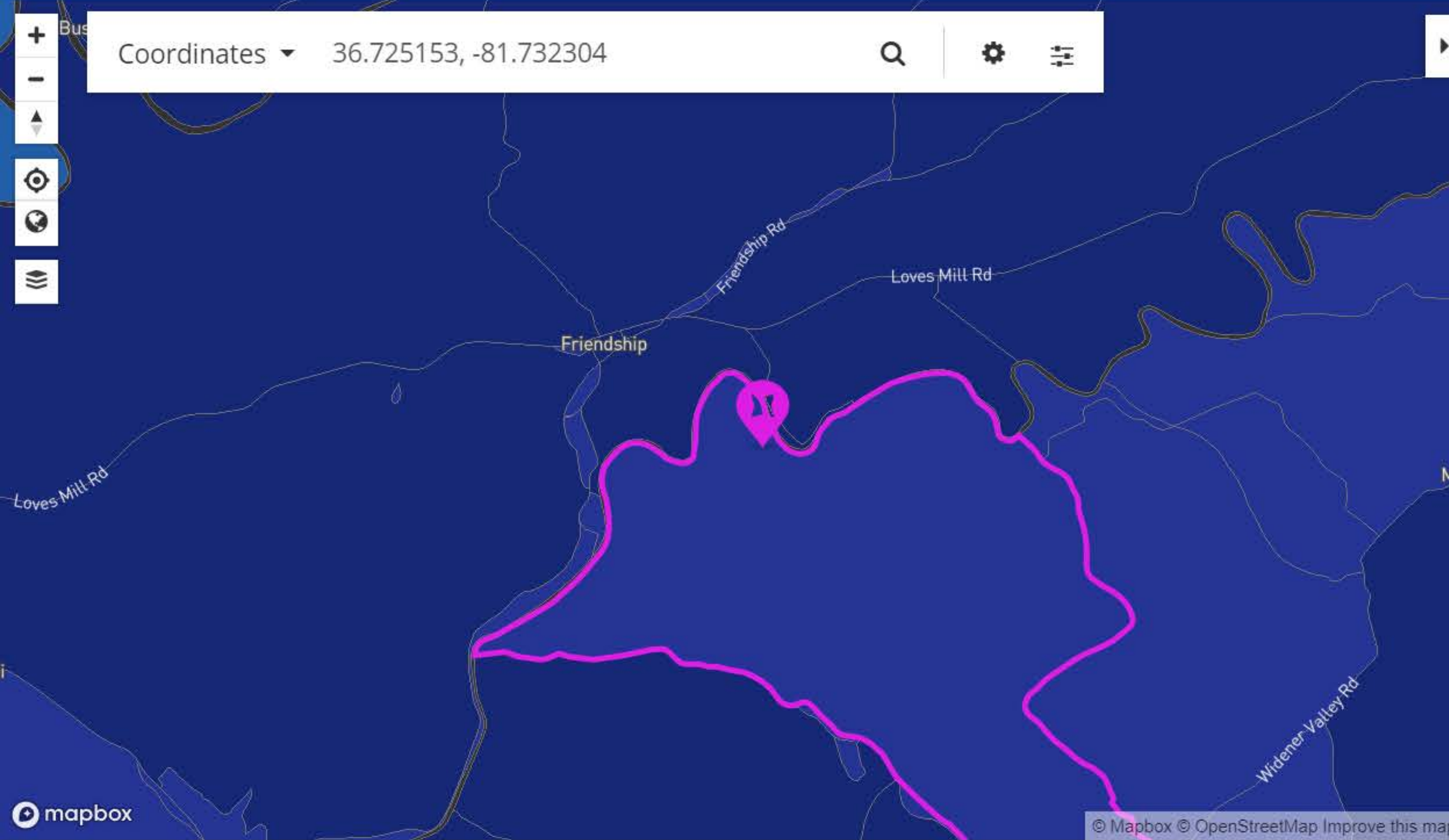
5636 ft

© 2021 Google

Google Earth

36°45'26.69" N 81°44'10.76" W elev 0 ft eye alt 24365 ft

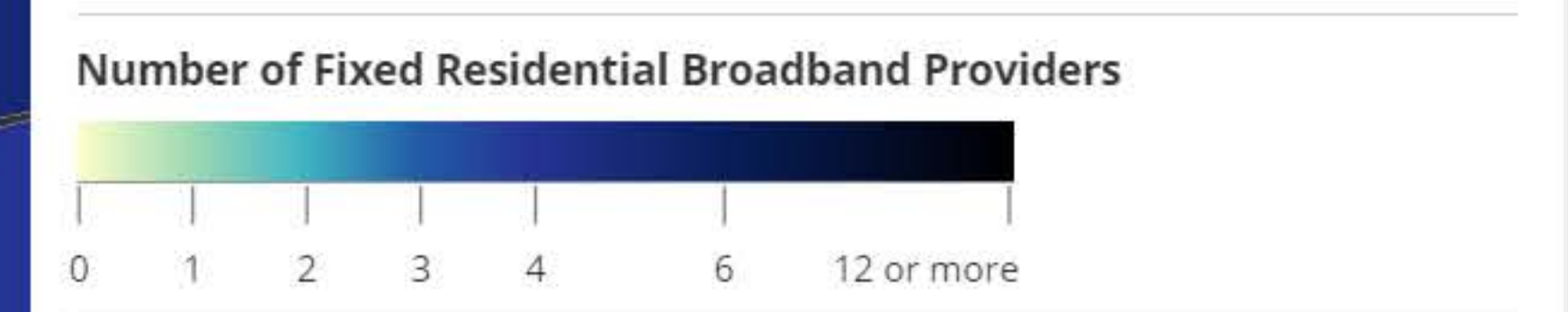
Coordinates 36.725153, -81.732304



mapbox © Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511910108001055



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3
CenturyLink, Inc.	ADSL	1.5	0.5

Search Plum Creek Road, Glade Spring, VA

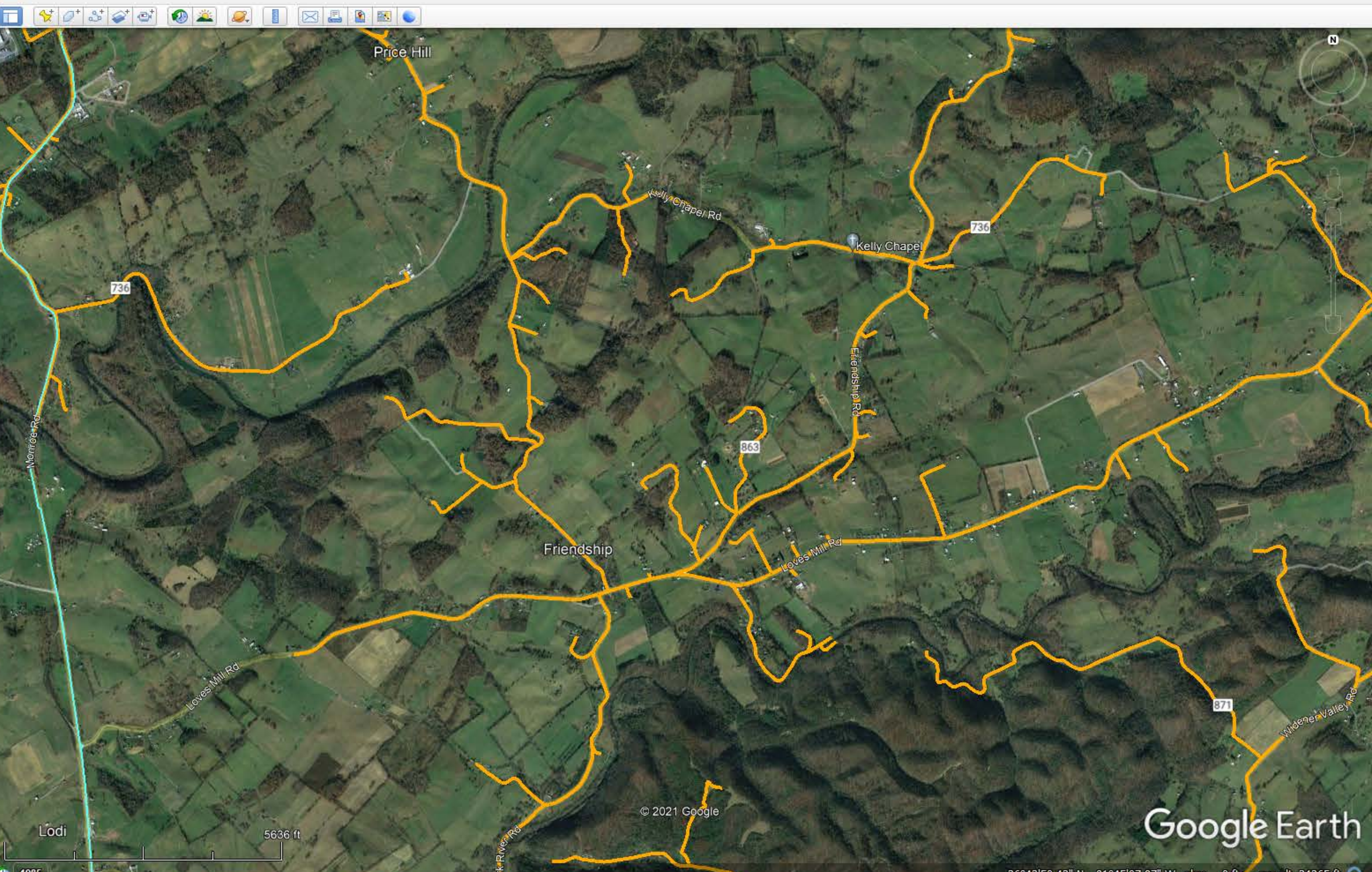
Plum Creek Rd

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Google Earth

36°43'50.43" N 81°45'07.87" W elev 0 ft eye alt 24365 ft

Coordinates 36.727485, -81.674778

Murrayfield

Country Ln

mapbox

© Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511910108002000

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	15	0.768
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search Murrayfield, VA

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Price Hill

Kelly Chapel

Friendship

Murrayfield

Widener Valley

2.22 mi

© 2021 Google

Google Earth

Imagery Date: 11/7/2013 36°44'09.44" N 81°40'36.69" W elev 0 ft eye alt 50703 ft

Coordinates 36.703829, -81.881996

36.703829, -81.881996
Report an error

All Providers Reporting Service

Census block ID: 511910108001126

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3

Search: Pizza near Clayville, NY

Get Directions History

Places

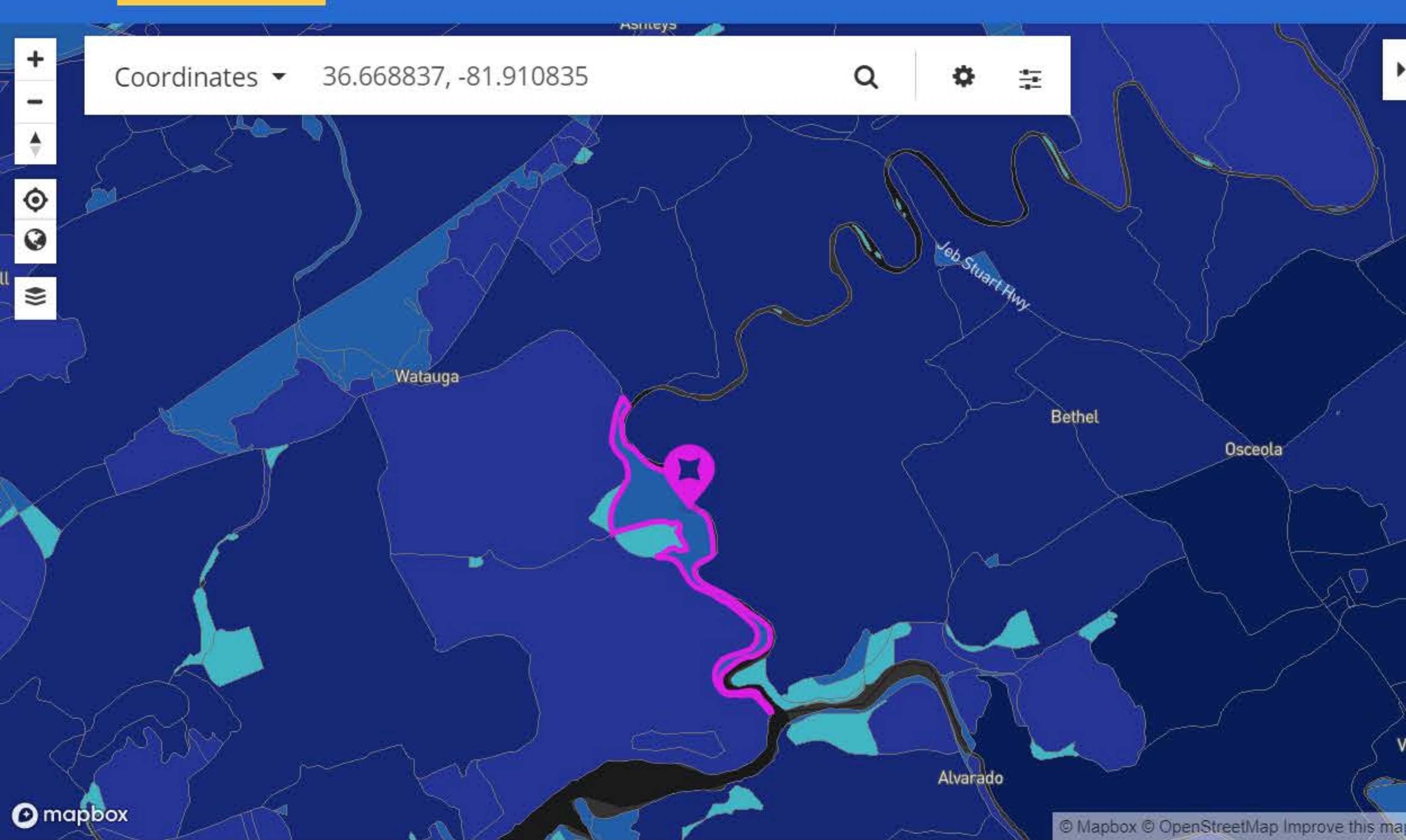
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/17/2019 36°42'22.29" N 81°52'36.16" W elev 0 ft eye alt 21826 ft



All Providers Reporting Service

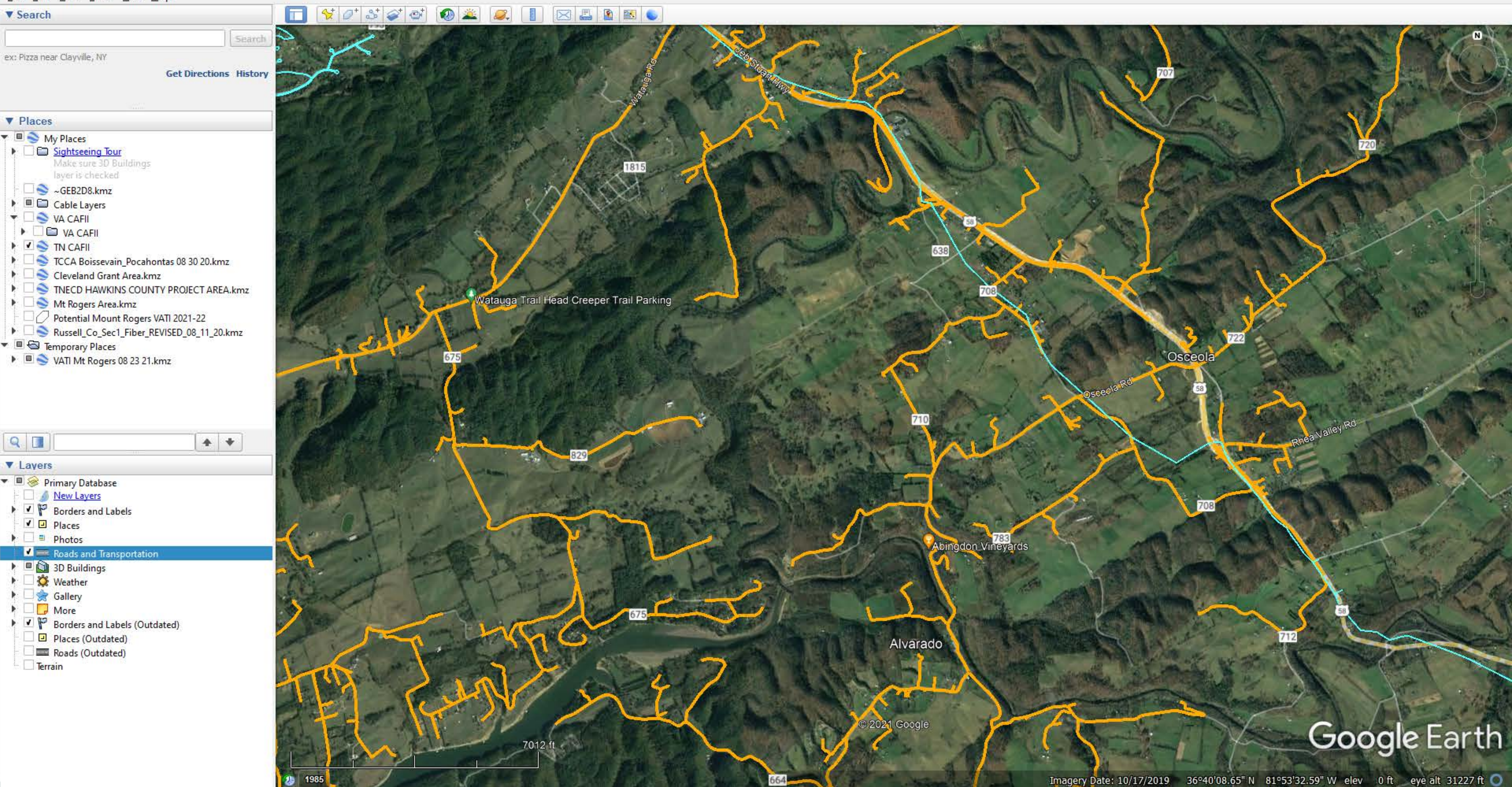
Census block ID: 511910109001063

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3



Coordinates 36.657648, -81.90521

mapbox © Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511910109001069

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

© 2021 Google

Coordinates 36.658135, -81.948619

36.658135, -81.948619
Report an error

Green Spring mapbox

© Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511910110001005

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search Parks Mill, VA

Get Directions History

Places

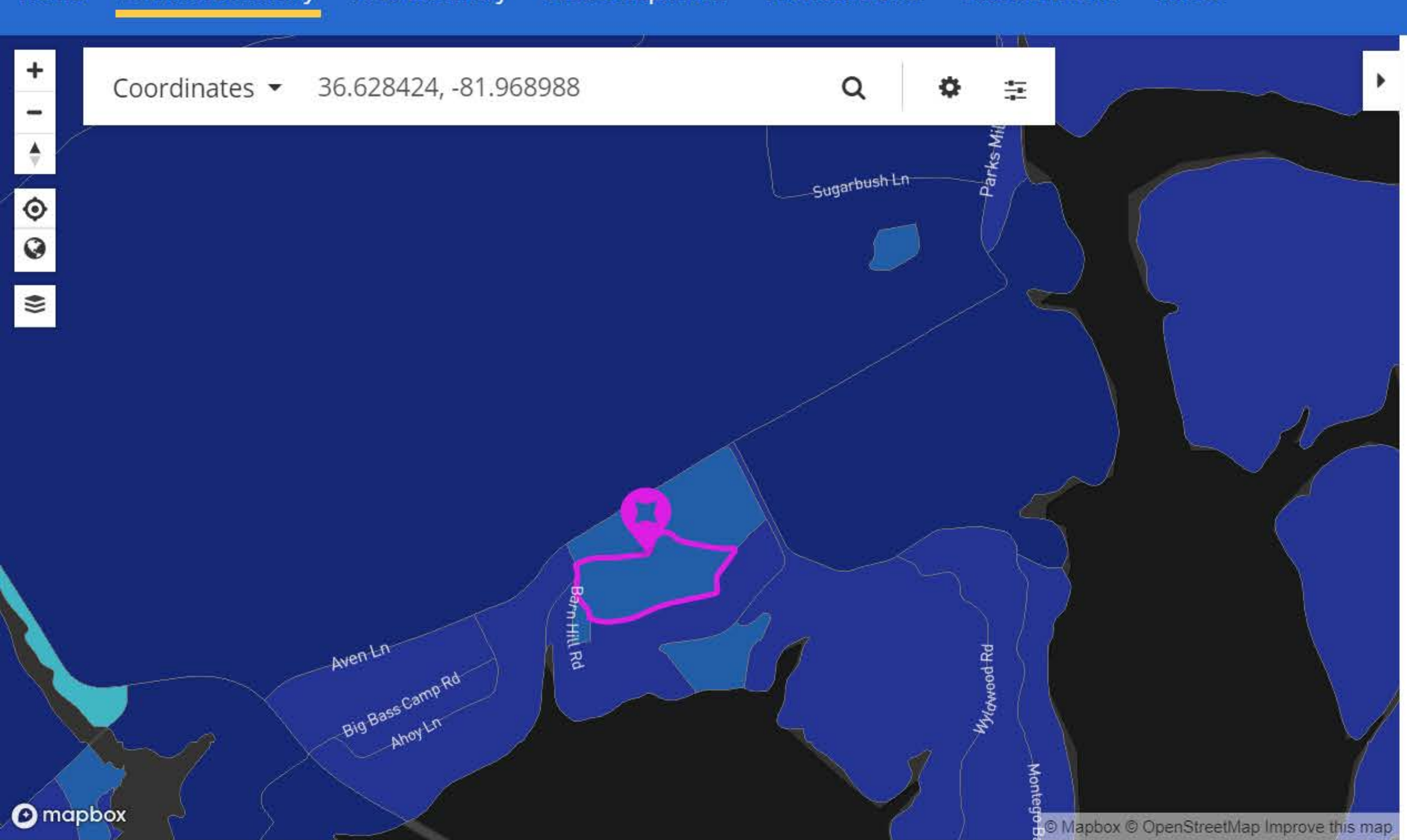
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

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Imagery Date: 10/17/2019 36°38'36.19" N 81°57'16.09" W elev 0 ft eye alt 20818 ft



All Providers Reporting Service

Census block ID: 511910110001113

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Aven Lane, Abingdon, VA

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Location Summary | Fixed Broadband

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.619582, -81.972541

36.619582, -81.972541
Report an error

Federal Communications Commission
45 L Street NE
Washington, DC 20554

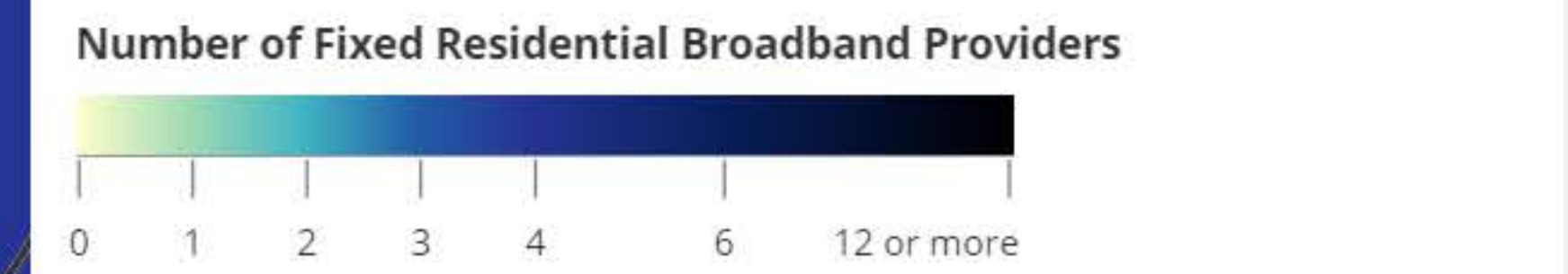
Website Policies & Notices
Privacy Policy

CATEGORIES
About the FCC

BUREAUS & OFFICES
Consumer

All Providers Reporting Service

Census block ID: 511910110001136



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	15	0.75
VSAT Systems, LLC	Satellite	2	1.3

Google Earth Pro

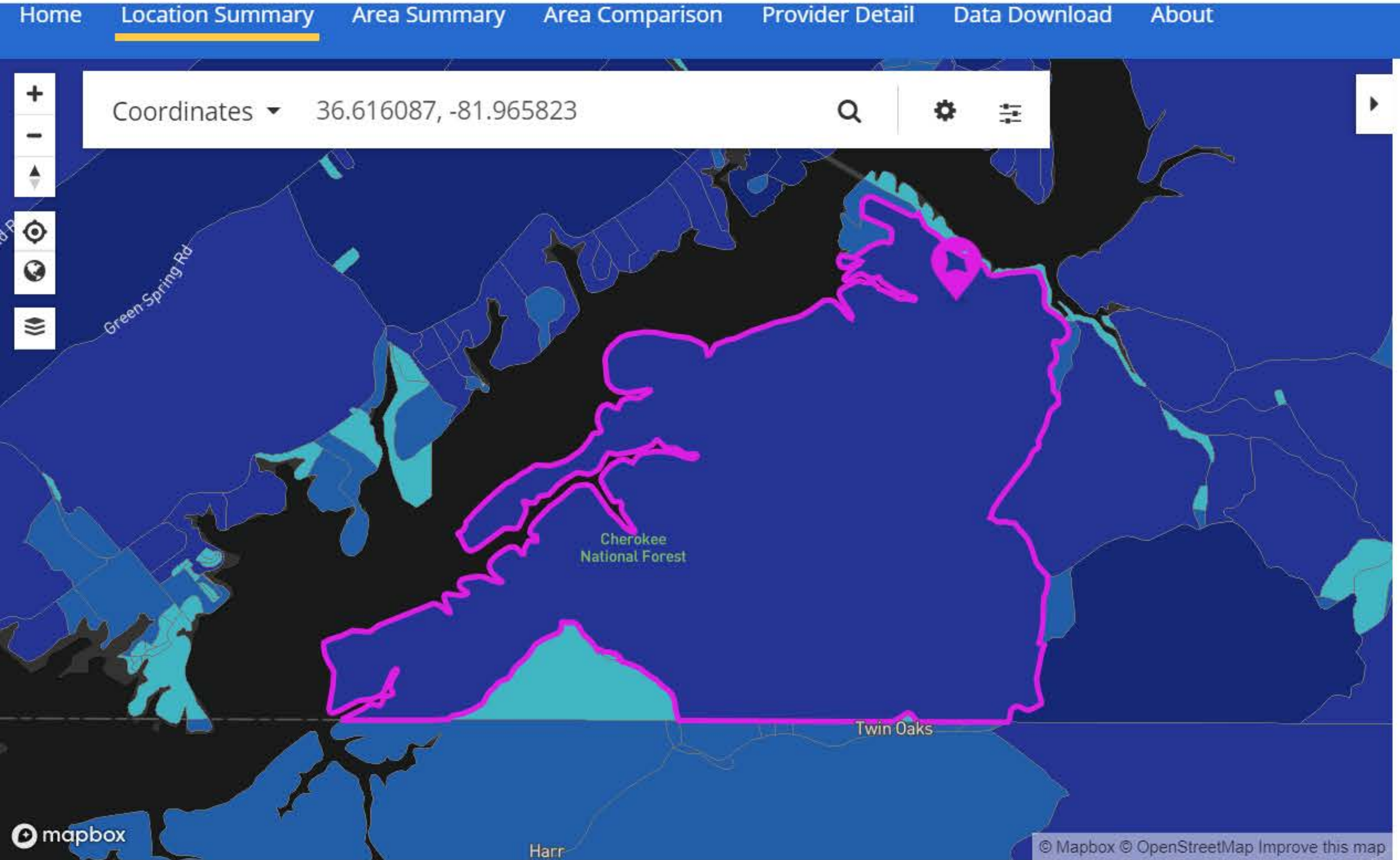
Search: Aven Lane, Abingdon, VA

Places: My Places, Sightseeing Tour, Cable Layers, VA CAFII, TN CAFII, TCCA Boissevain_Pocahontas 08 30 20.kmz, Cleveland Grant Area.kmz, TNECD HAWKINS COUNTY PROJECT AREA.kmz, Mt Rogers Area.kmz, Potential Mount Rogers VATI 2021-22, Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz, Temporary Places, VATI Mt Rogers 08 23 21.kmz

Layers: Primary Database, New Layers, Borders and Labels, Places, Photos, Roads and Transportation, 3D Buildings, Weather, Gallery, More, Borders and Labels (Outdated), Places (Outdated), Roads (Outdated), Terrain

Imagery Date: 10/17/2019 36°36'56.63" N 81°57'08.42" W elev 0 ft eye alt 13311 ft

11:06 AM 9/12/2021



All Providers Reporting Service

Census block ID: 511910110001132

Number of Fixed Residential Broadband Providers



Broadband
 Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
CenturyLink, Inc.	ADSL	100	10
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	3	0.5
VSAT Systems, LLC	Satellite	2	1.3

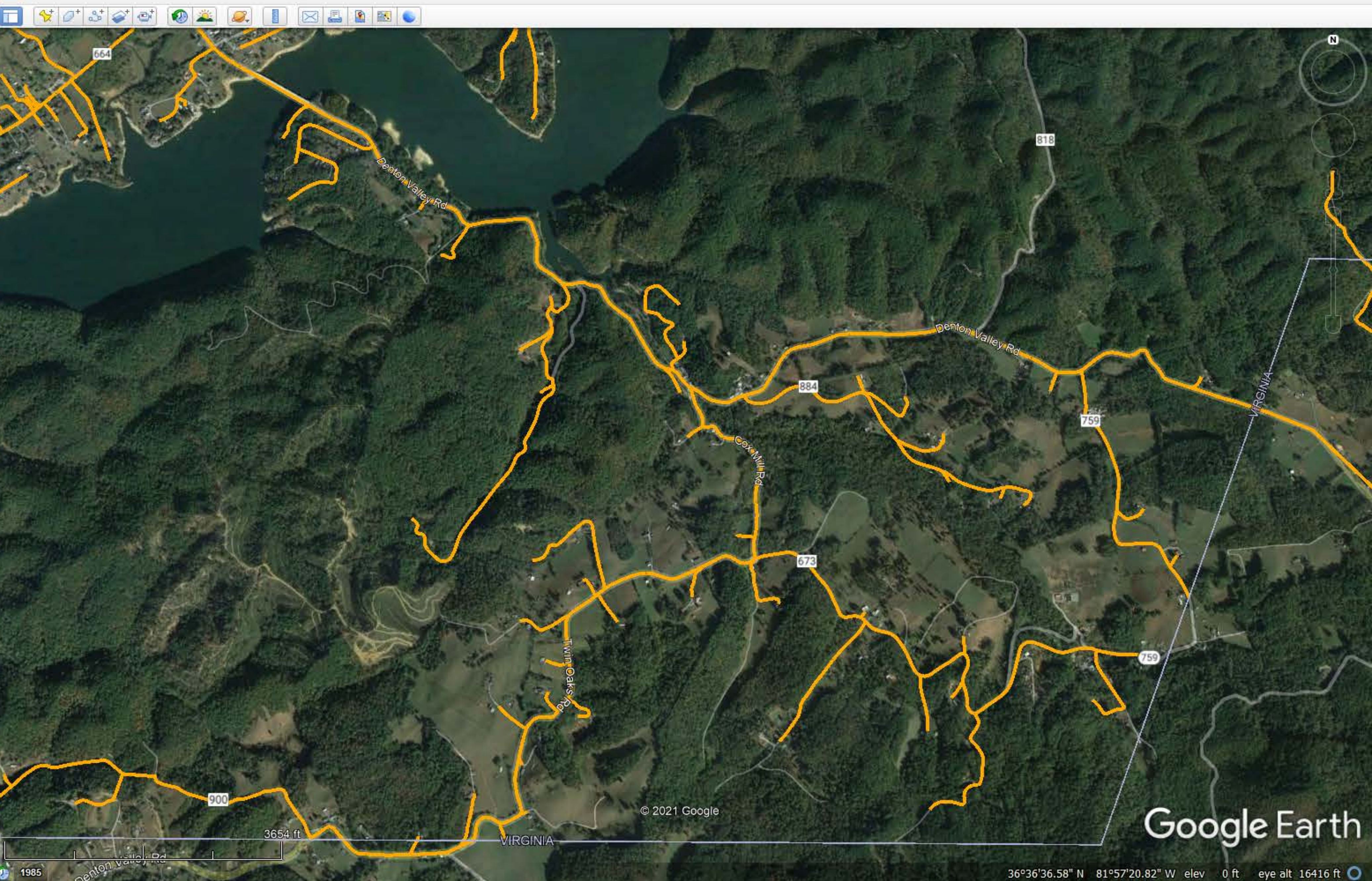
Search: Aven Lane, Abingdon, VA

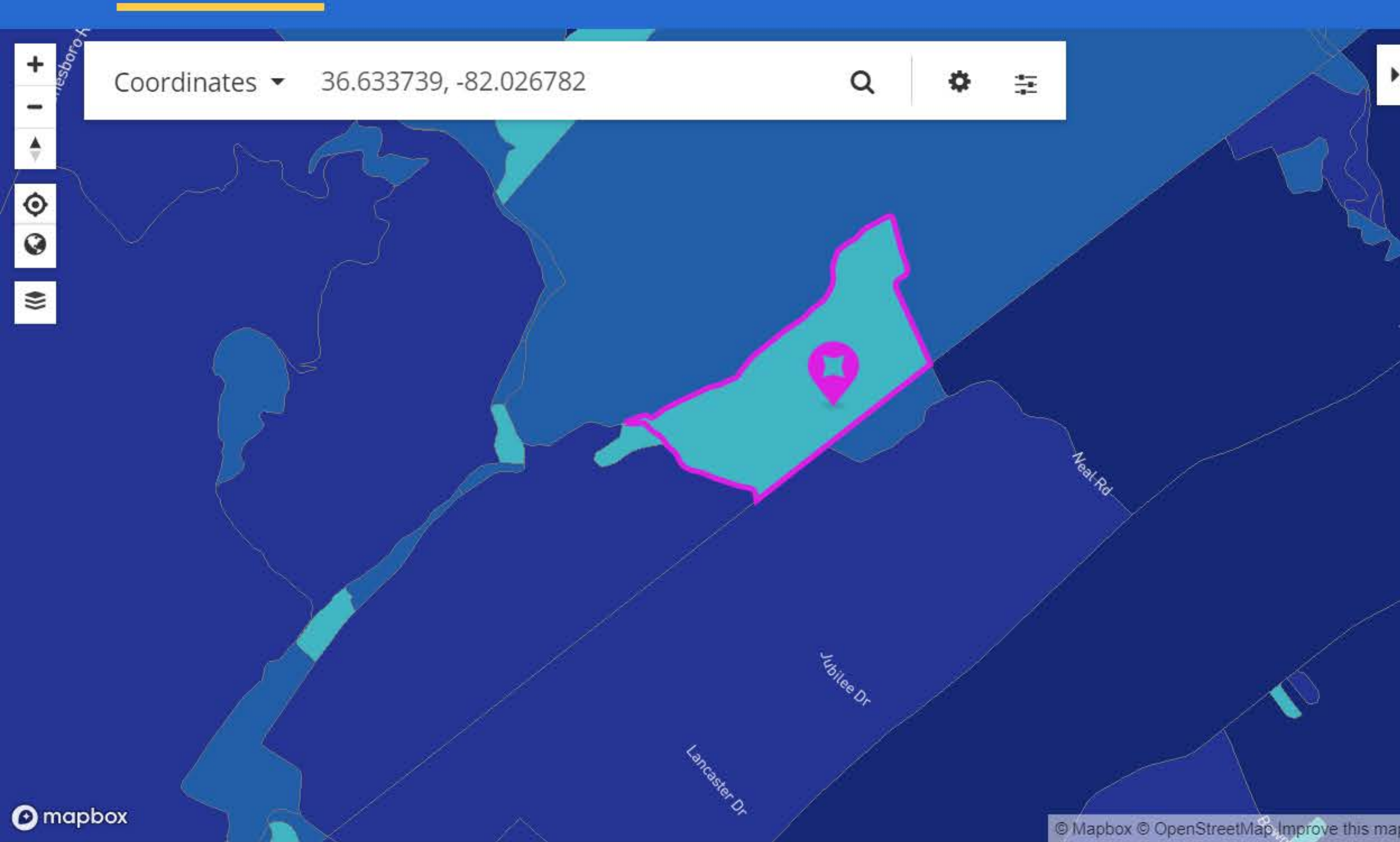
Places:

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





All Providers Reporting Service

Census block ID: 511910104012031

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3

Search: Neal Rd, Abingdon, VA

Get Directions History

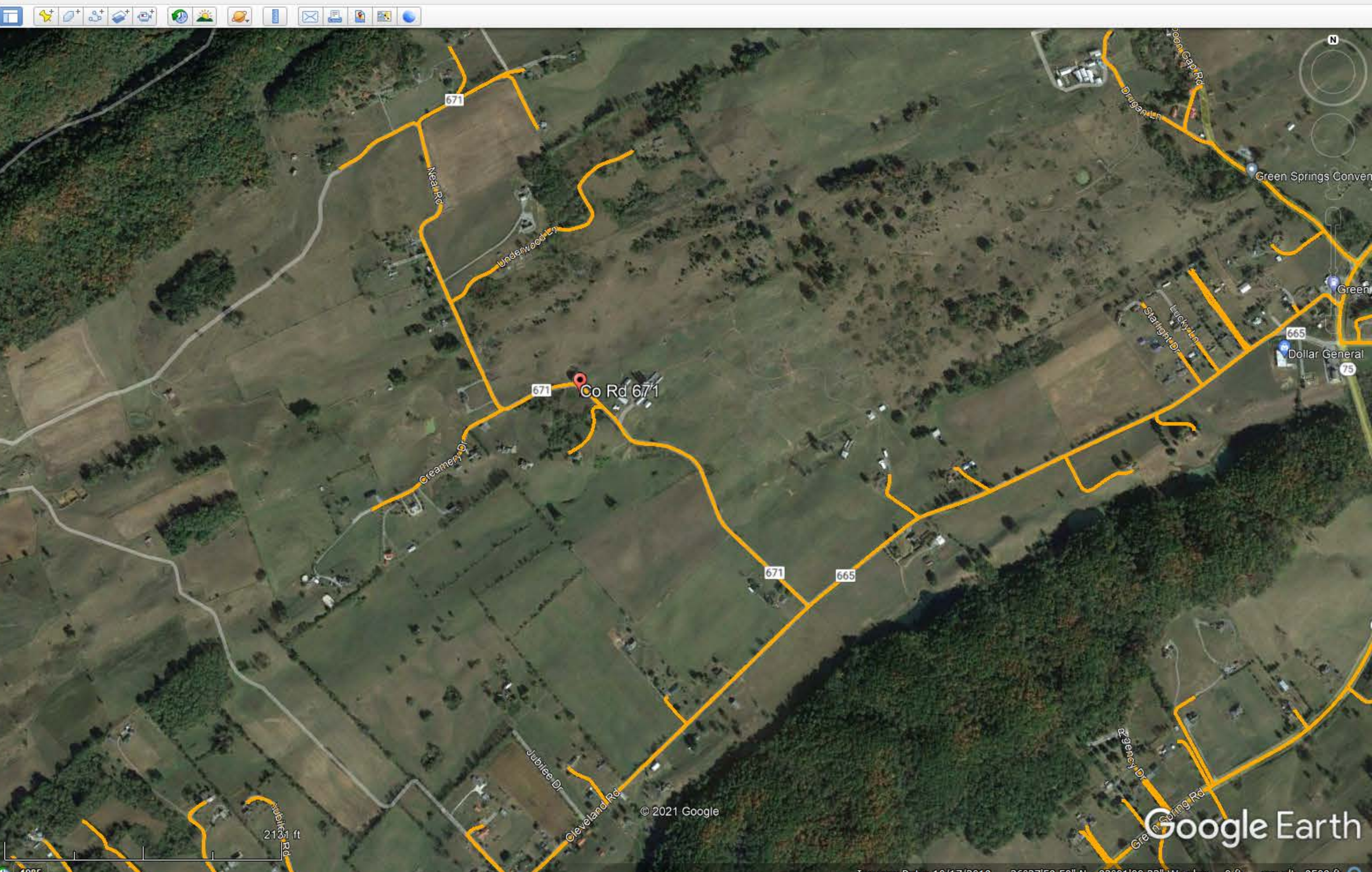
Co Rd 671

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

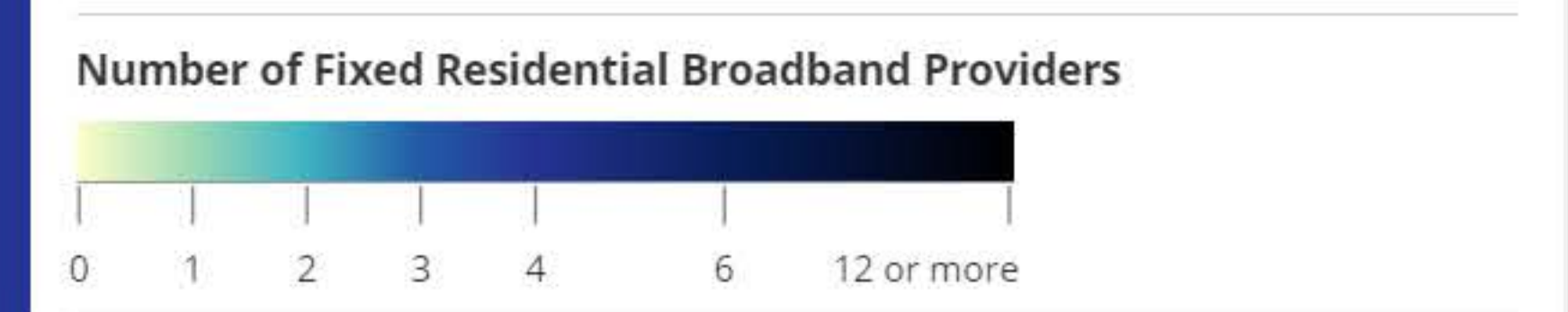


Coordinates 36.606372, -82.033812

36.606372, -82.033812
Report an error

All Providers Reporting Service

Census block ID: 511910110001217



Broadband
 Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Ketron Lane, Abingdon, VA

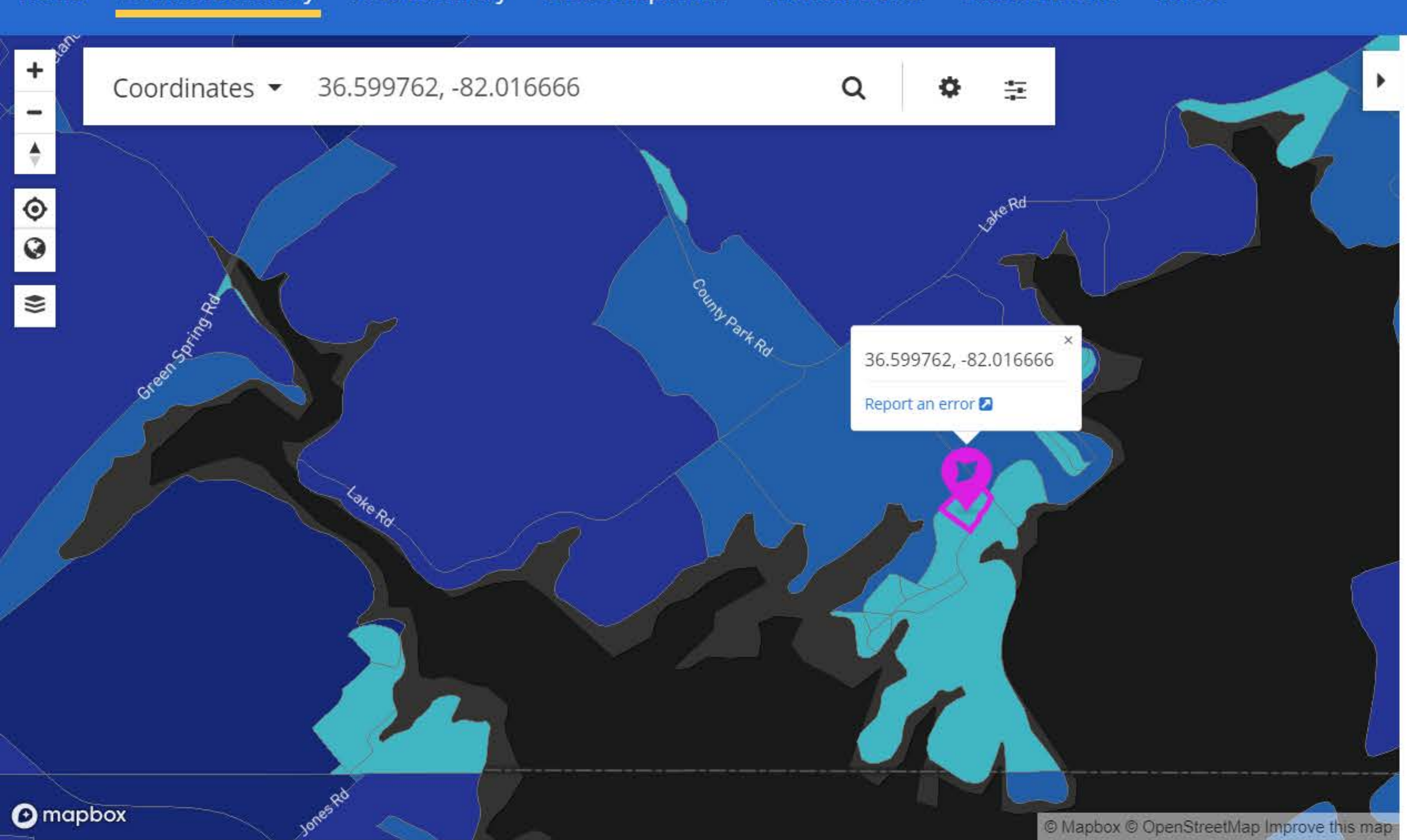
Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth



All Providers Reporting Service

Census block ID: 511910110001237

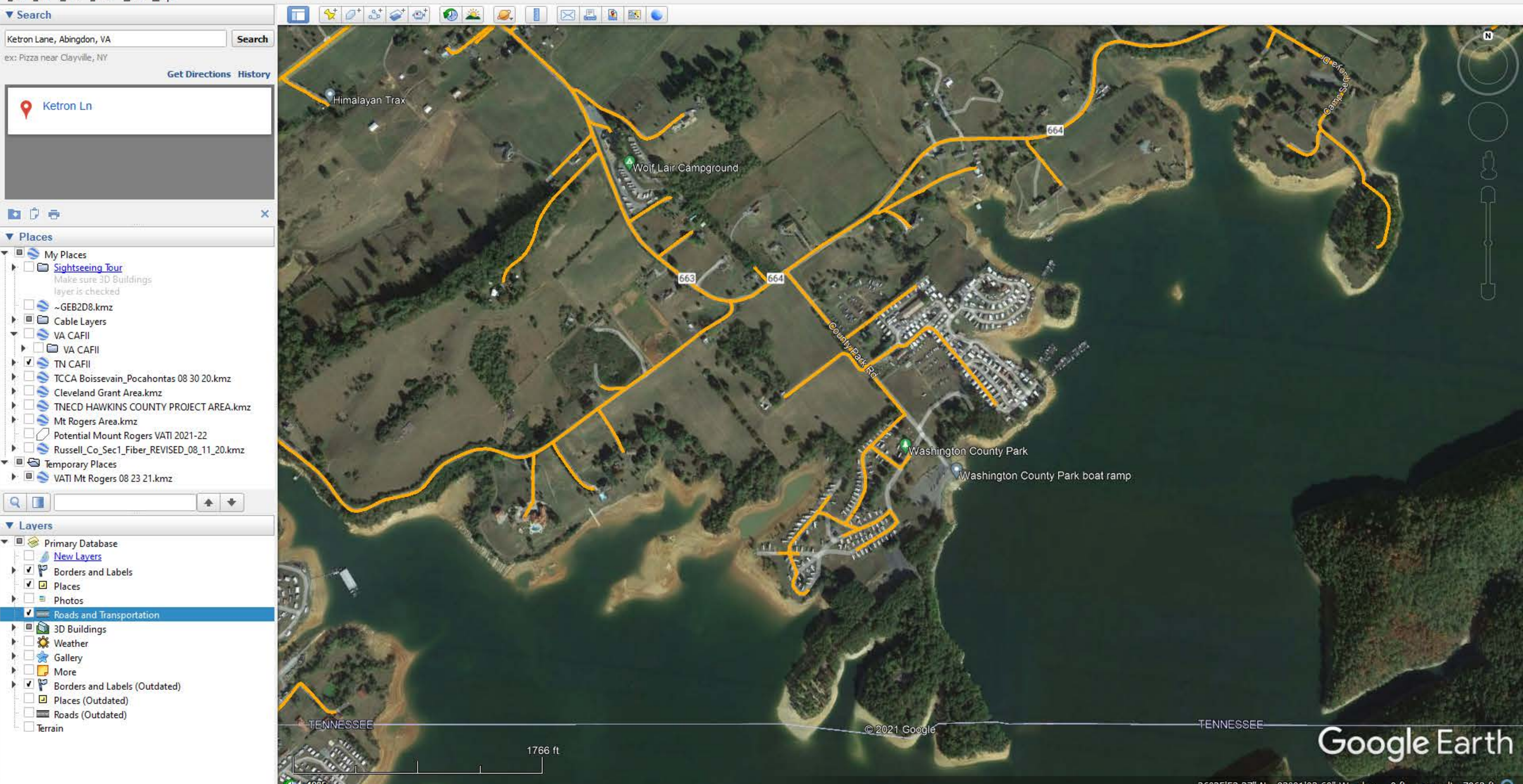
Number of Fixed Residential Broadband Providers

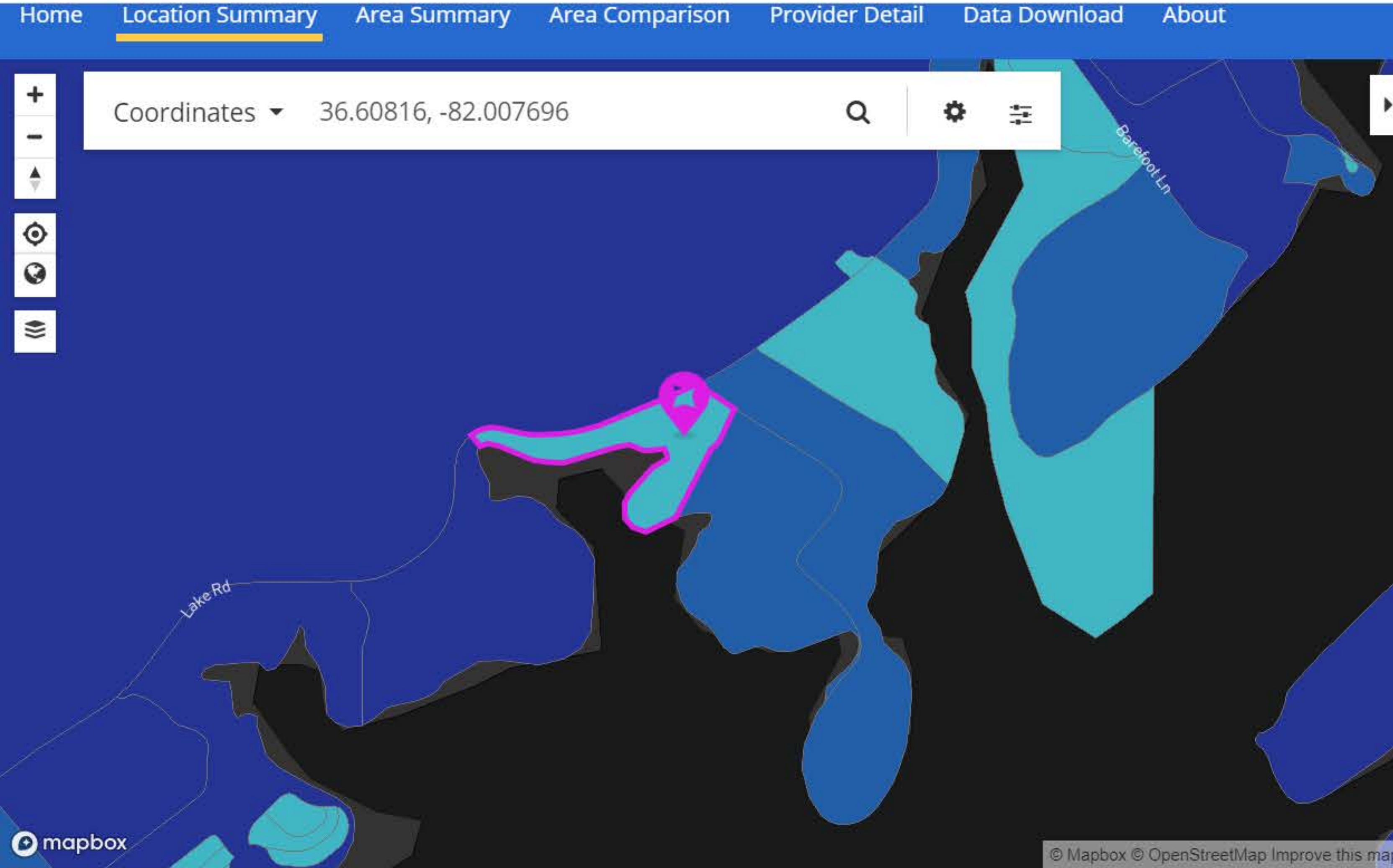
0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

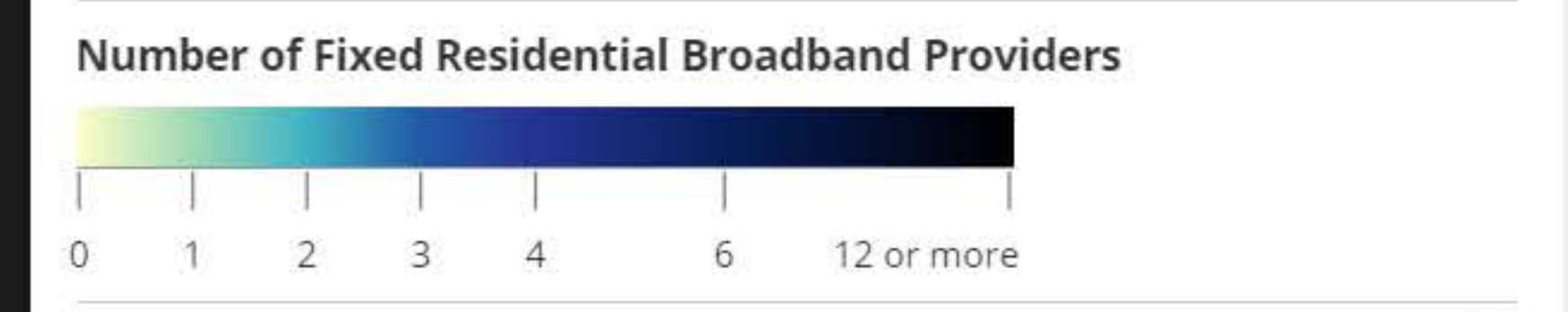
Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3





All Providers Reporting Service

Census block ID: 511910110001198



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

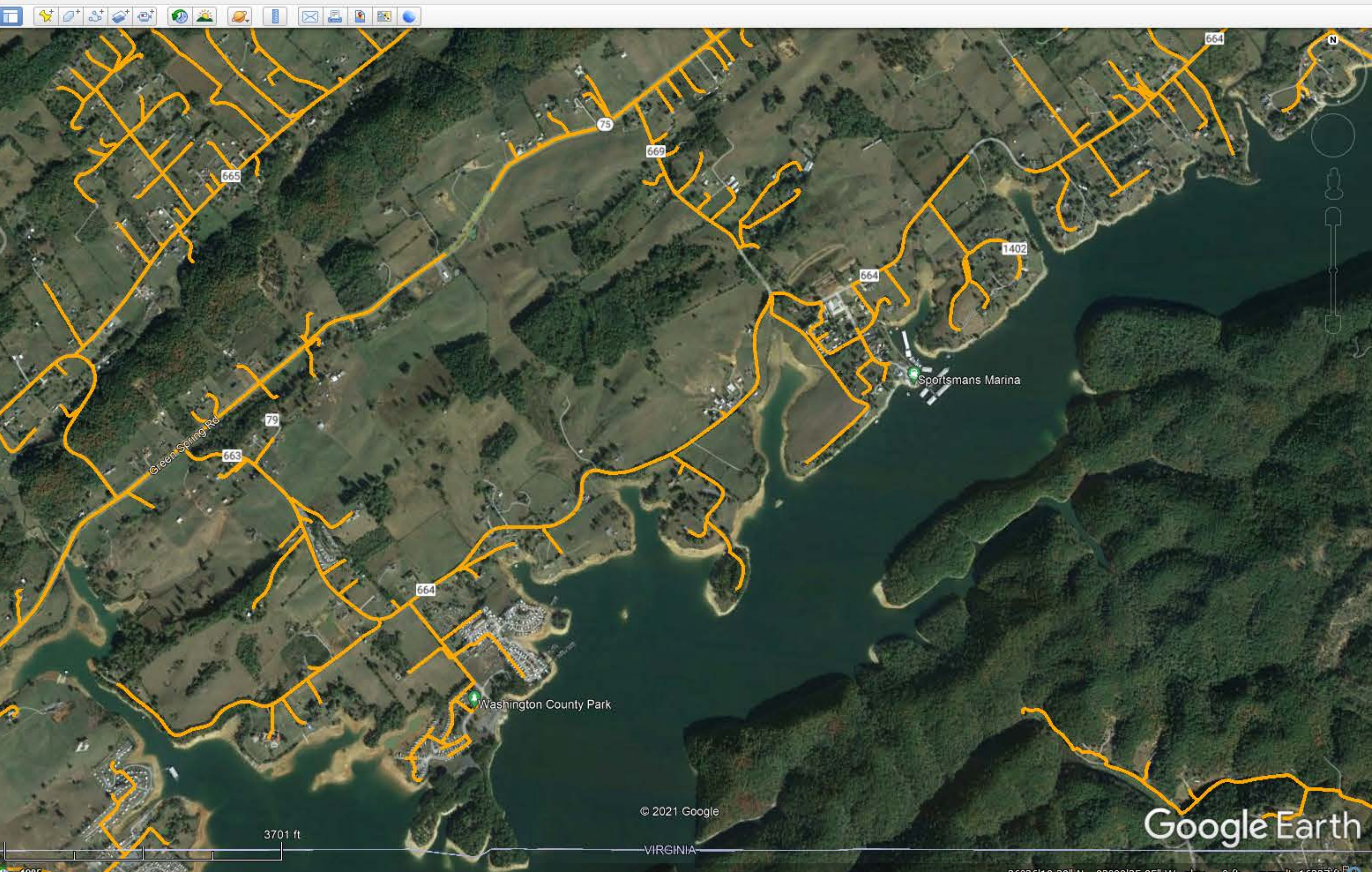
Search: Mock Knob Road, Abingdon, VA

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Coordinates 36.611539, -82.001205

36.611539, -82.001205
Report an error

All Providers Reporting Service

Census block ID: 511910110001187

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Mock Knob Road, Abingdon, VA

Get Directions History

Mock Knob Rd

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

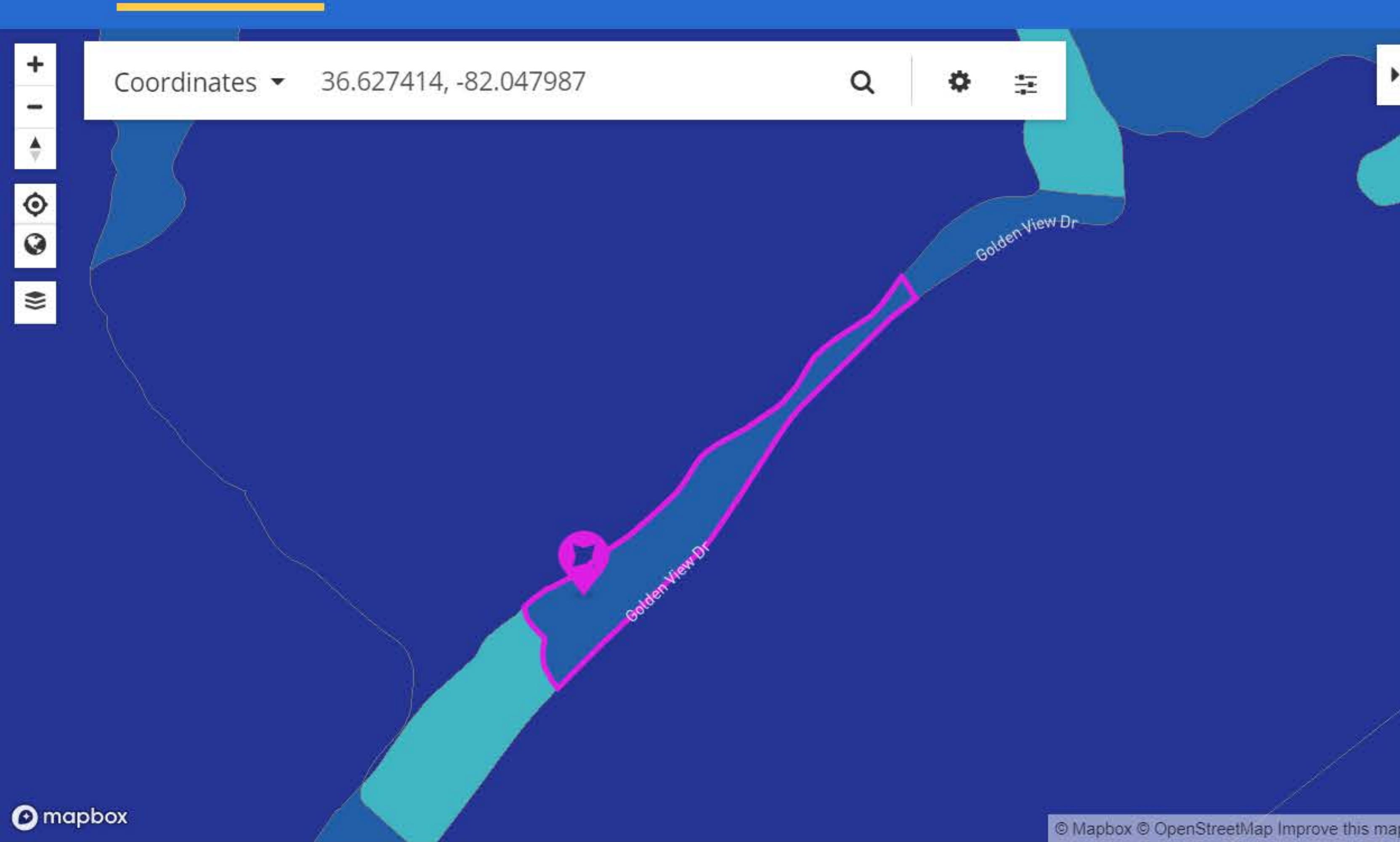
Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

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Google Earth

36°36'26.53" N 82°01'17.55" W elev 0 ft eye alt 16227 ft



All Providers Reporting Service

Census block ID: 511910104012028

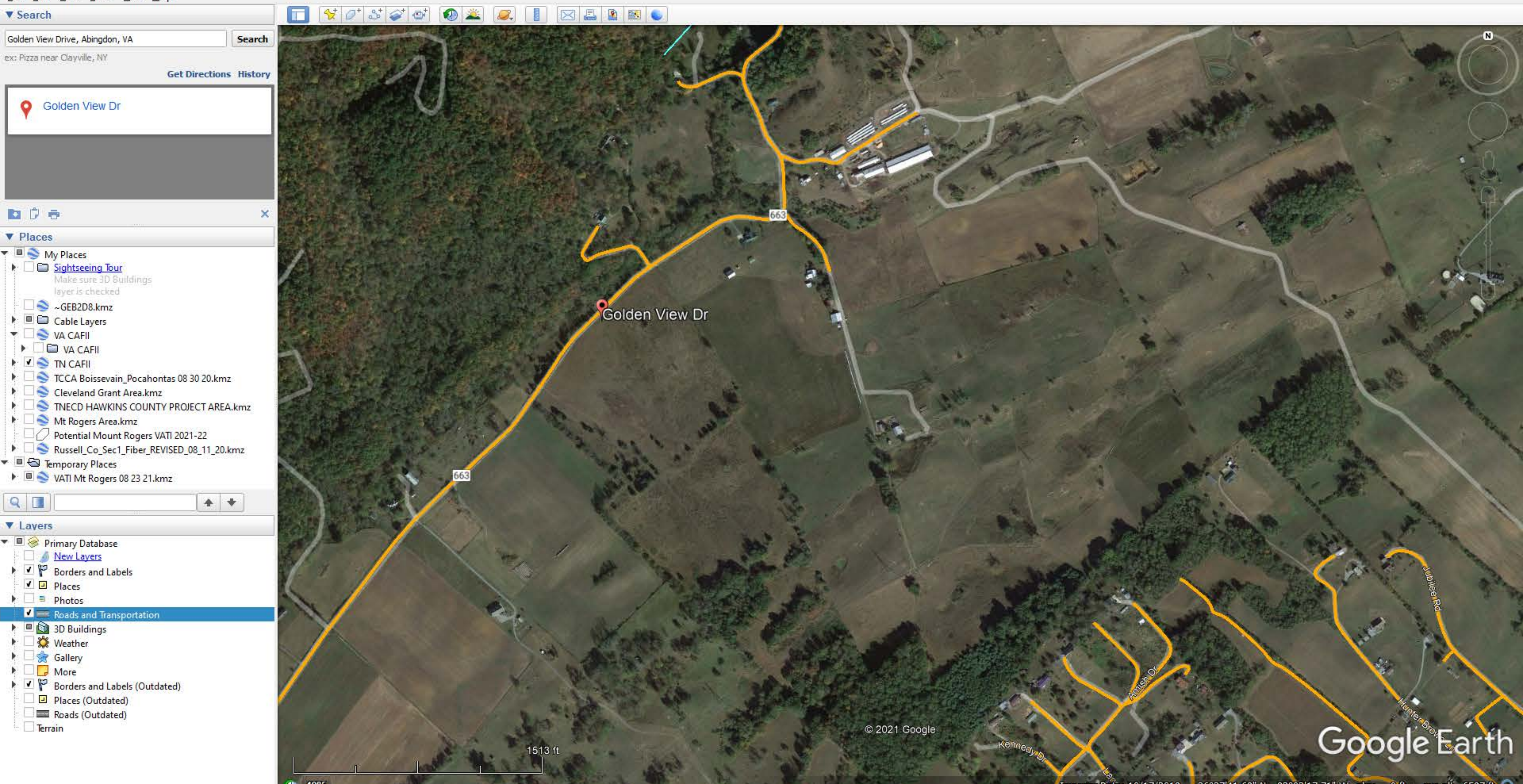
Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3



Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.646376, -82.004915

All Providers Reporting Service

Census block ID: 511910104012025

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3

Search Golden View Drive, Abingdon, VA

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Layers
 - Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth

Imagery Date: 10/17/2019 36°38'42.97" N 81°59'58.01" W elev 0 ft eye alt 10717 ft

Location Summary | Fixed Broadband

Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.003455, -80.925357

All Providers Reporting Service

Census block ID: 511970501004050

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	25	5
Virginia Everywhere, LLC	Fixed Wireless	15	3
CenturyLink, Inc.	ADSL	10	1
CenturyLink, Inc.	ADSL	10	0.768
VSAT Systems, LLC	Satellite	2	1.3

Google Earth Pro

Search ex: Pizza near Clayville, NY

Get Directions History

Places

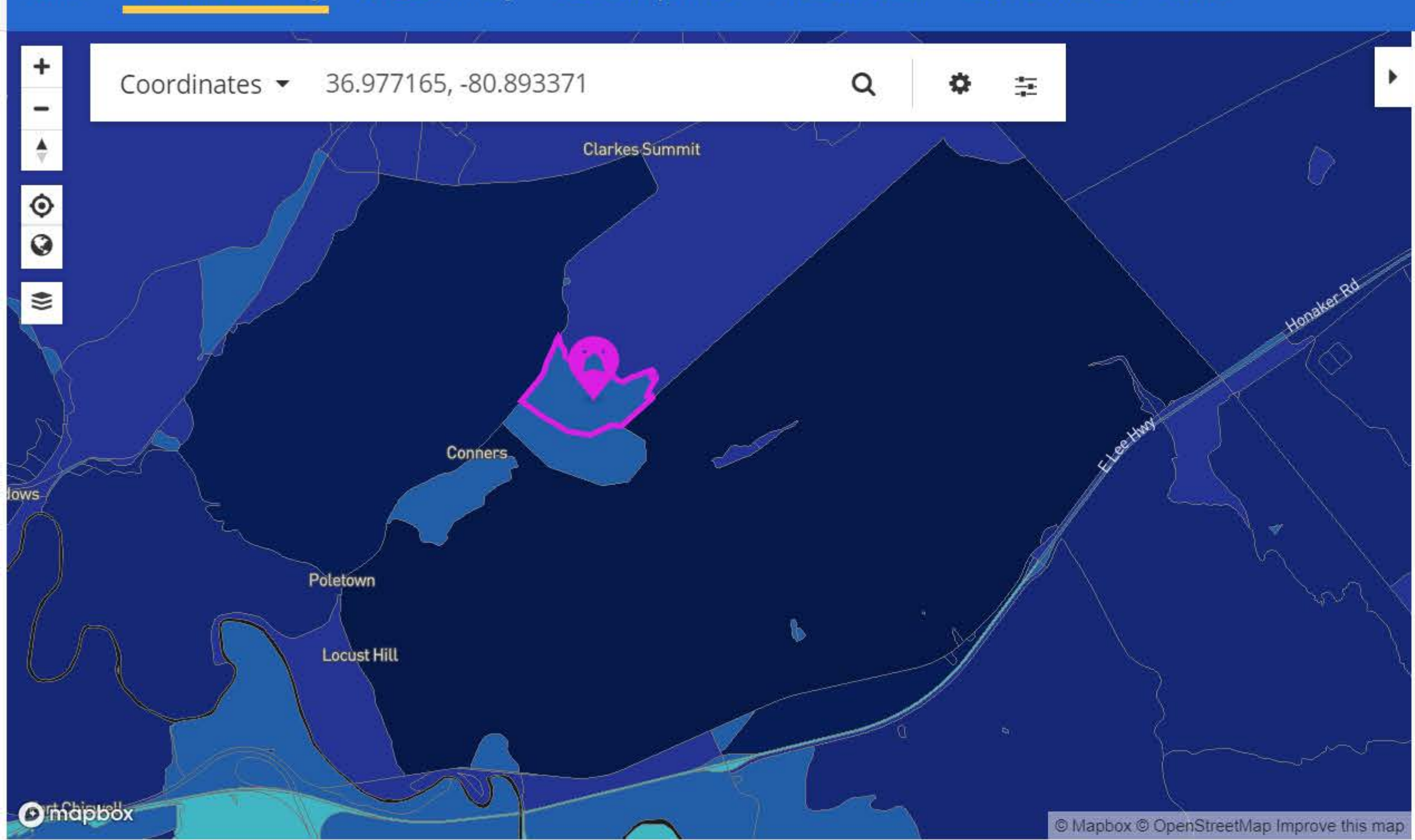
- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth

Imagery Date: 3/18/2019 37°00'08.14" N 80°55'25.88" W elev 0 ft eye alt 24402 ft



All Providers Reporting Service

Census block ID: 511970501005004

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
Virginia Everywhere, LLC	Fixed Wireless	15	3
CenturyLink, Inc.	ADSL	10	0.75
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search: conners, va

ex: Pizza near Clayville, NY

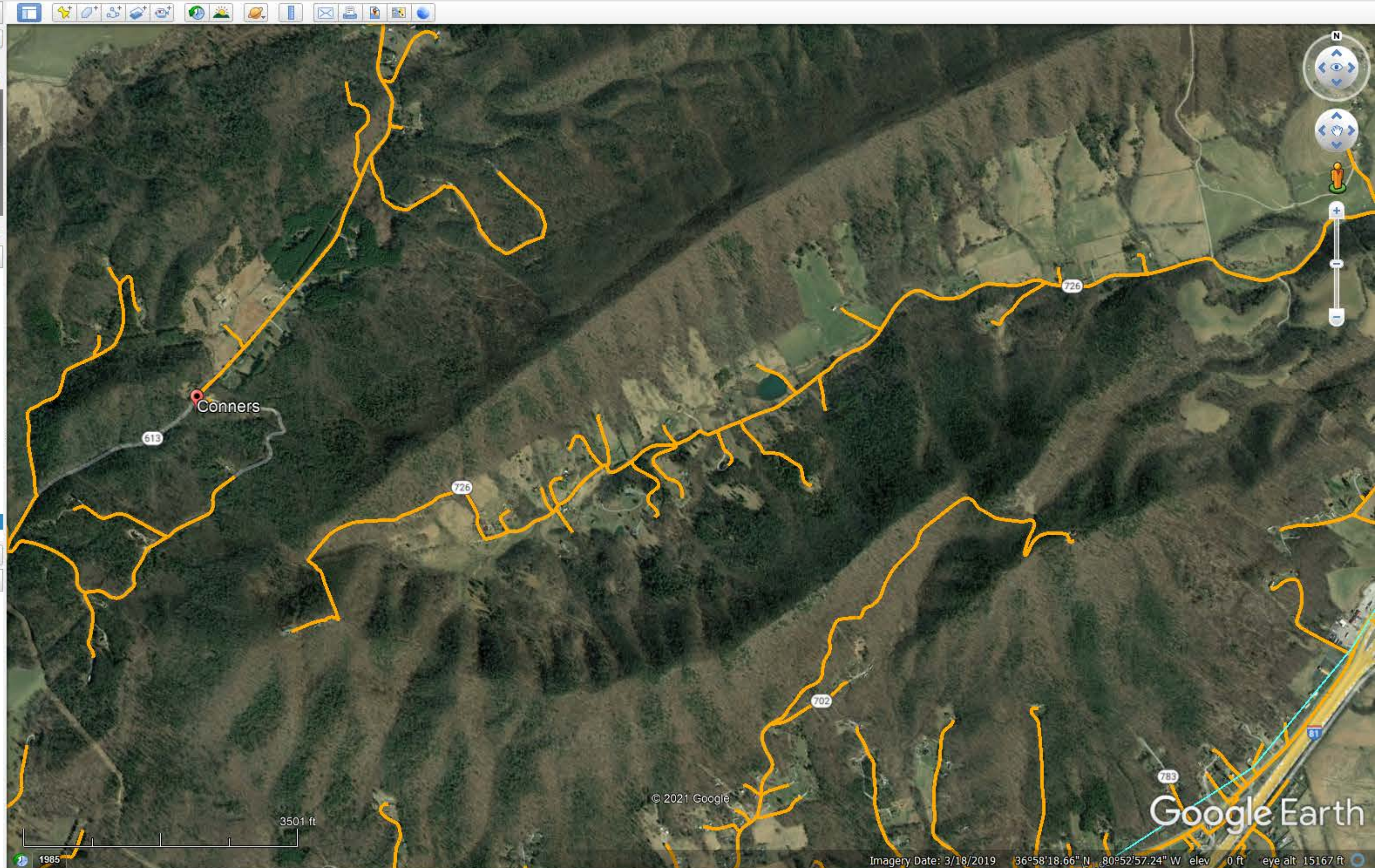
Get Directions History

Places

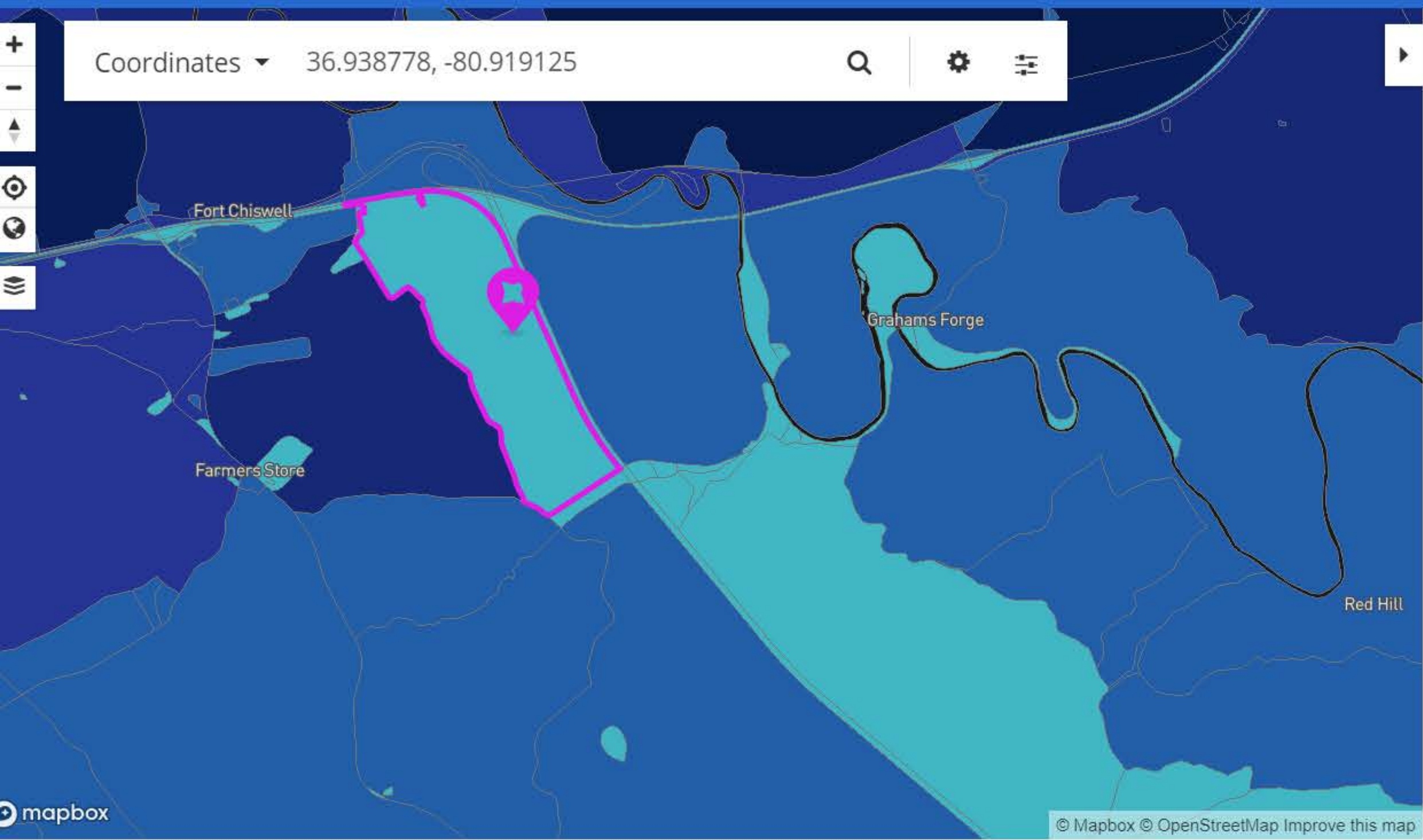
- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

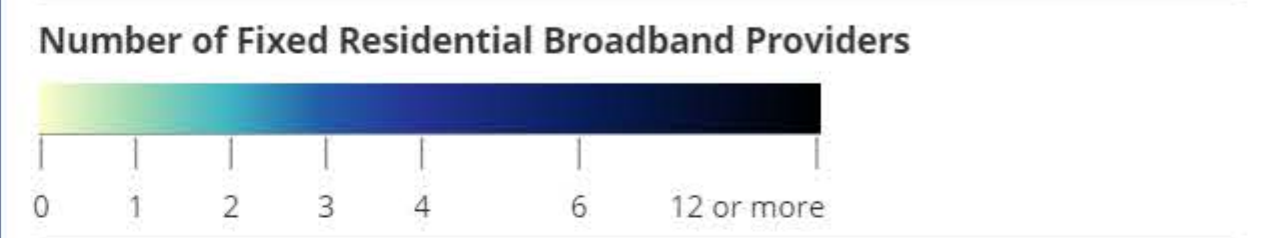


Coordinates 36.938778, -80.919125



All Providers Reporting Service

Census block ID: 511970504024040



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
Virginia Everywhere, LLC	Fixed Wireless	15	3
MGW Communications, Inc.	Fixed Wireless	10	2
CenturyLink, Inc.	ADSL	10	1
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
VSAT Systems, LLC	Satellite	2	1.3

Search: Grahams Forge, VA

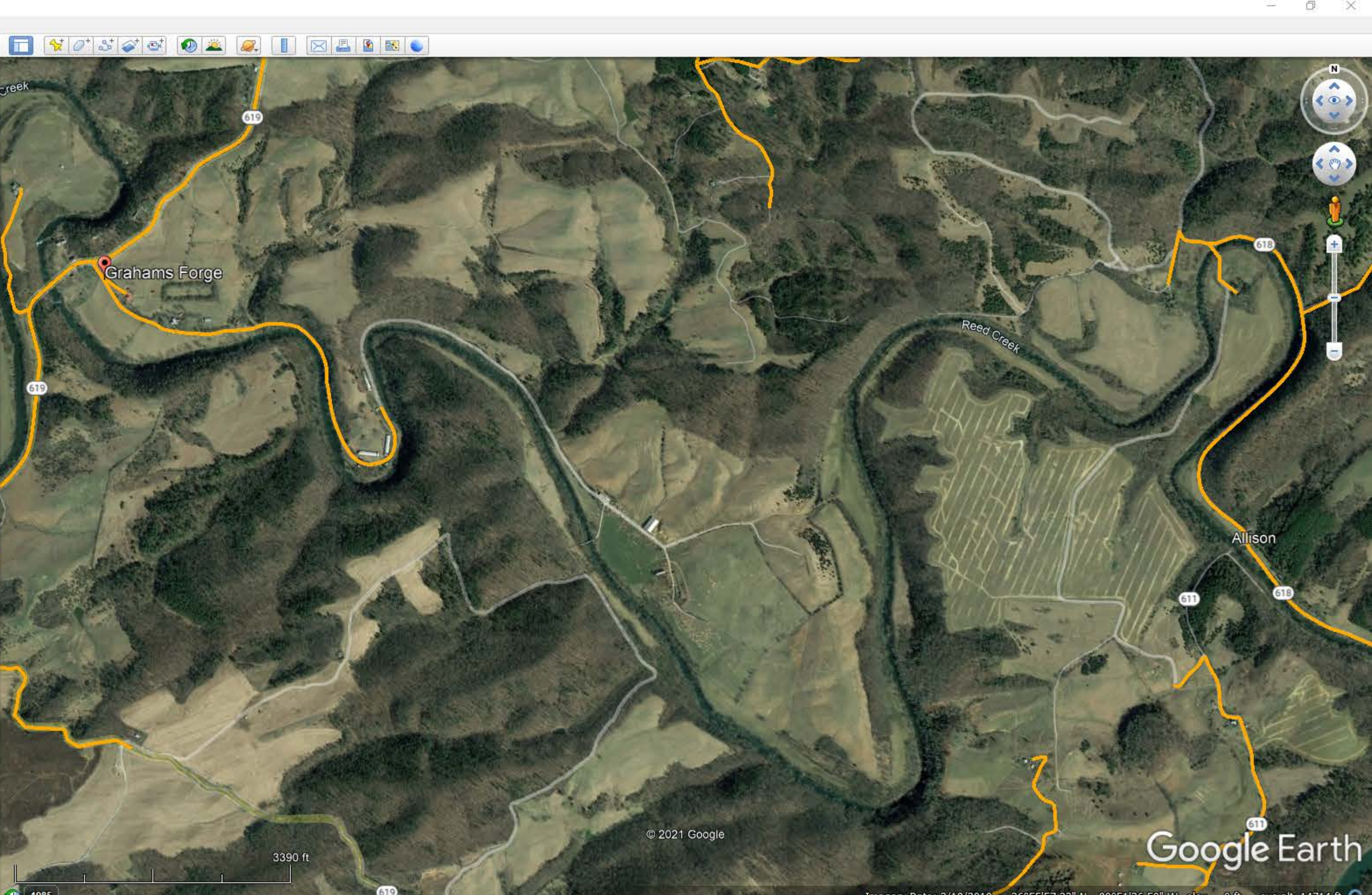
Get Directions History

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFIL
 - VA CAFIL
 - TN CAFIL
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



Location Summary | Fixed Broadband

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.913287, -80.843808

All Providers Reporting Service

Census block ID: 511970504024126

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	25	5
Virginia Everywhere, LLC	Fixed Wireless	15	3
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
CenturyLink, Inc.	ADSL	1.5	0.512

Google Earth Pro

Star Cave, VA

Get Directions History

Star Cave

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFIL
 - VA CAFIL
 - TN CAFIL
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth

Imagery Date: 3/18/2019

36°54'41.52" N 80°47'41.21" W elev 0 ft eye alt 10927 ft

9:54 AM 9/12/2021

Location Summary | Fixed Broadband

Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.879076, -80.765463

All Providers Reporting Service

Census block ID: 511970504023054

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Fastlink Communications Inc.	Fixed Wireless	30	5
Hughes Network Systems, LLC	Satellite	25	3
Virginia Everywhere, LLC	Fixed Wireless	15	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search High Rocks Mill, VA

Get Directions History

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

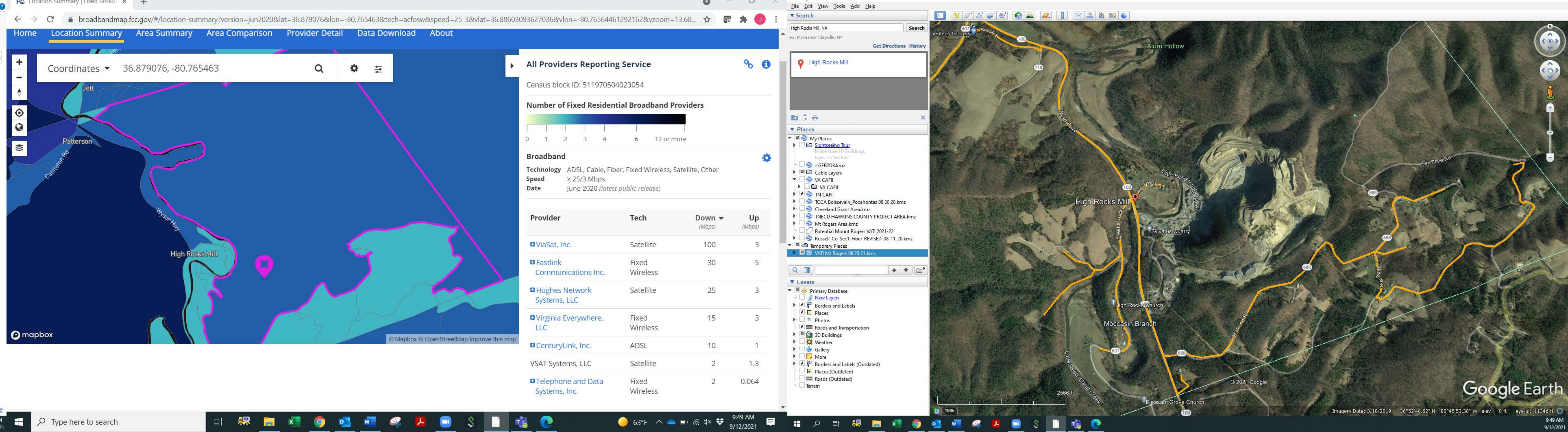
- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth Pro

High Rocks Mill, VA

Imagery Date: 3/18/2019 36°52'48.62" N 80°45'53.38" W elev 0 ft eye alt 11346 ft

© 2021 Google

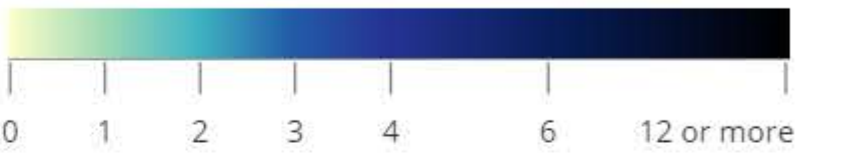


Coordinates 36.879076, -80.765463

All Providers Reporting Service

Census block ID: 511970504023054

Number of Fixed Residential Broadband Providers



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Fastlink Communications Inc.	Fixed Wireless	30	5
Hughes Network Systems, LLC	Satellite	25	3
Virginia Everywhere, LLC	Fixed Wireless	15	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search High Rocks Mill, VA

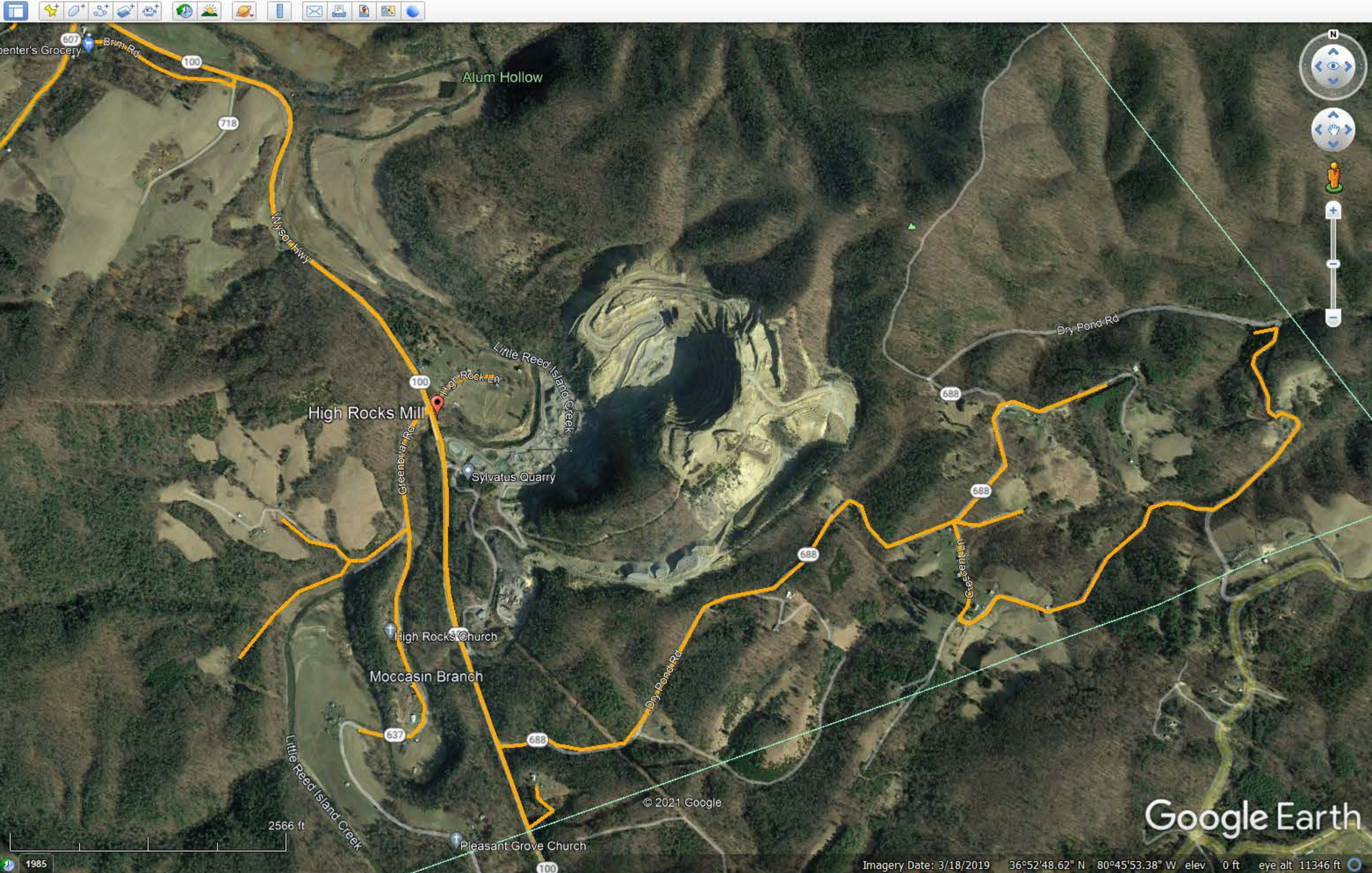
Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB208.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.97846, -81.227655

All Providers Reporting Service

Census block ID: 511970502001009

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
CenturyLink, Inc.	ADSL	80	10
WVA.net Inc.	Fixed Wireless	50	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
CenturyLink, Inc.	ADSL	0.5	0.25

Search Favonia, VA

Get Directions History

Favonia

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth

Imagery Date: 3/18/2019 36°58'42.63" N 81°13'16.73" W elev 0 ft eye alt 26896 ft

Location Summary | Fixed Broadband

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.000504, -81.285297

All Providers Reporting Service

Census block ID: 511970502001000

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
WVA.net Inc.	Fixed Wireless	50	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	15	0.768
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Google Earth Pro

Search Favonia, VA

Get Directions History

Places

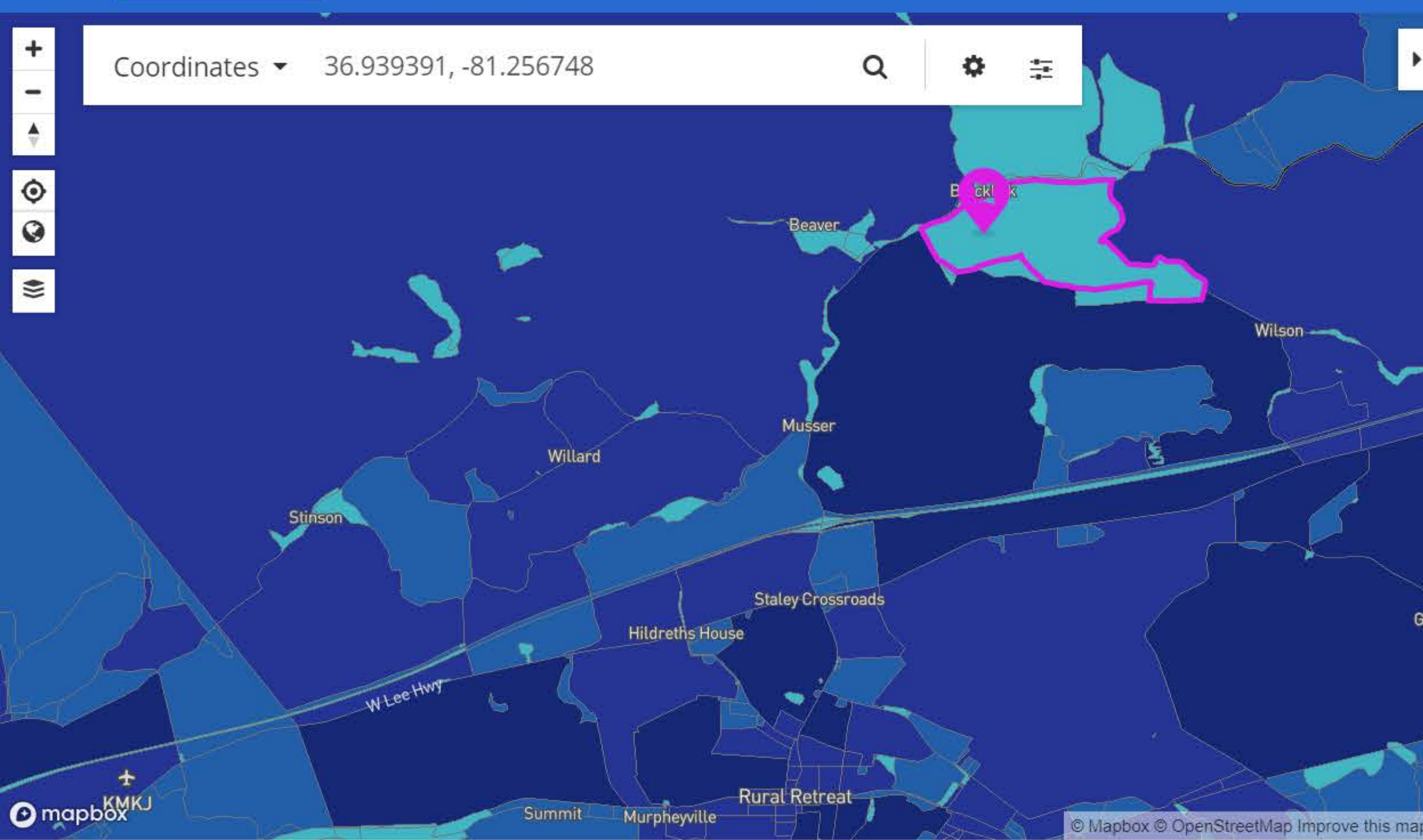
- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth

Imagery Date: 3/18/2019 36°58'42.63" N 81°13'16.73" W elev 0 ft eye alt 26896 ft



All Providers Reporting Service

Census block ID: 511970502001186

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	3	0.5
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
VSAT Systems, LLC	Satellite	2	1.3
CenturyLink, Inc.	ADSL	1.5	0.5

Search Favonia, VA

ex: Pizza near Clayville, NY

Get Directions History

Favonia

Places

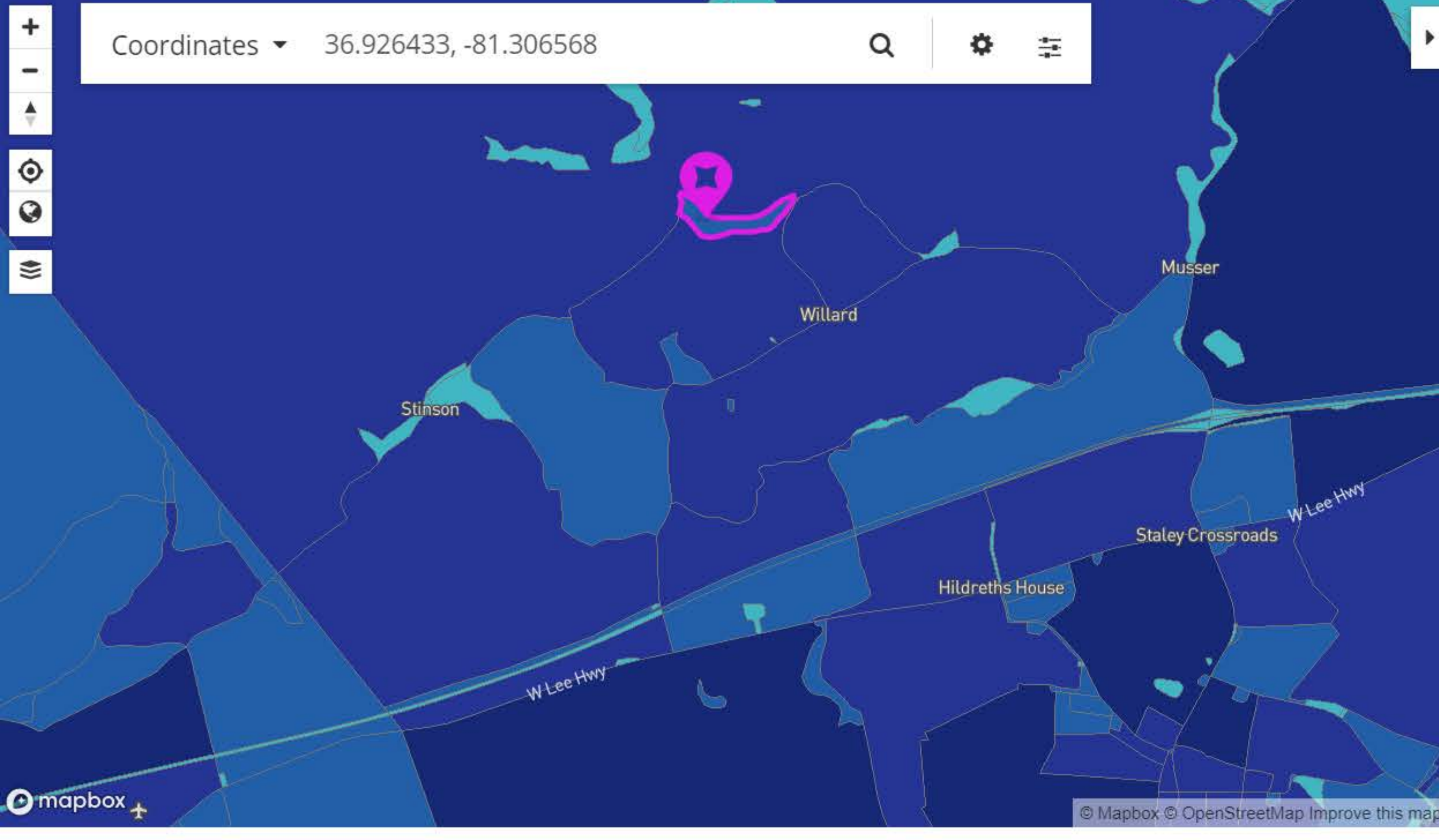
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019 36°56'46.03" N 81°15'57.27" W elev 0 ft eye alt 51112 ft



All Providers Reporting Service

Census block ID: 511970502001165

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
WVA.net Inc.	Fixed Wireless	50	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	25	2
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

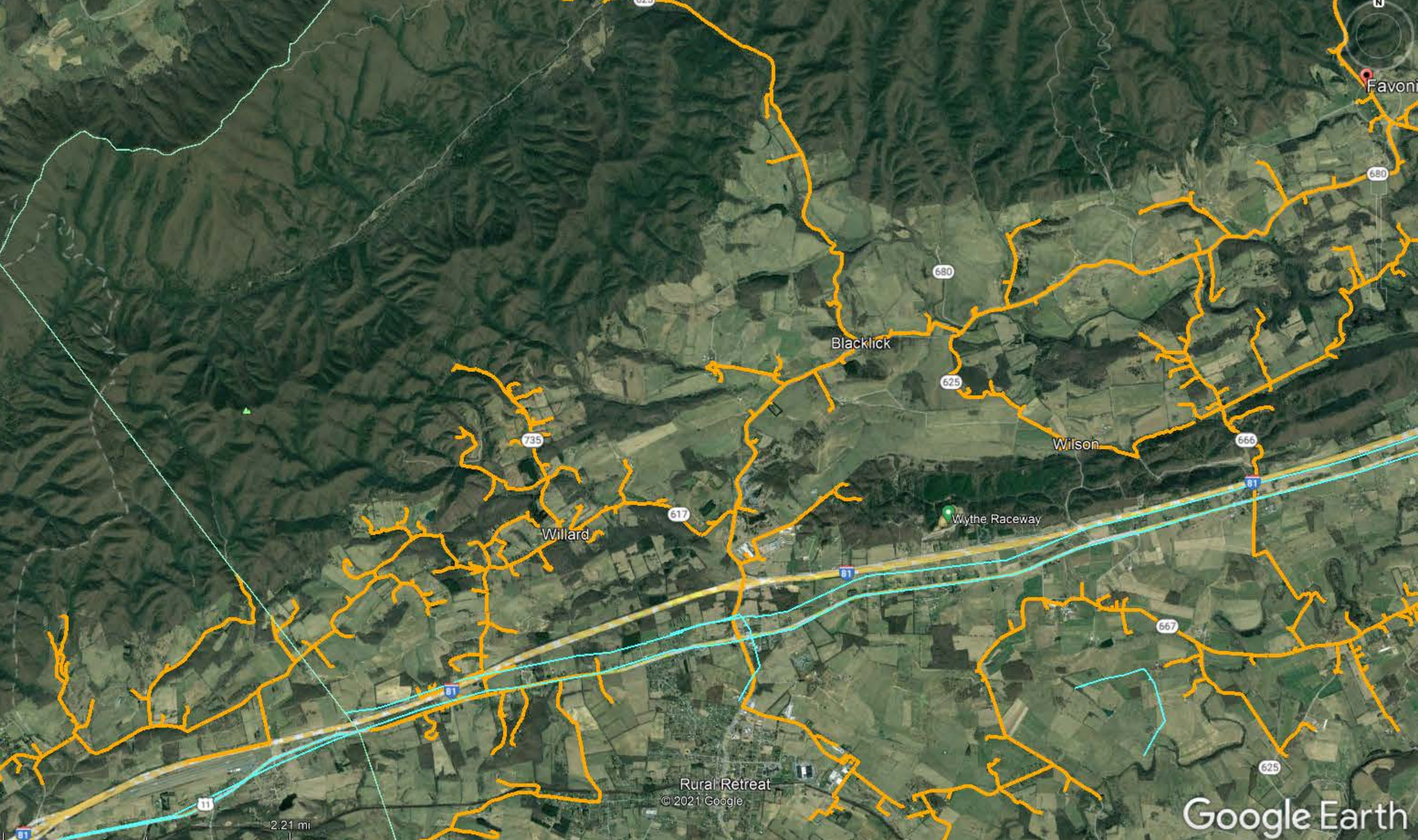
Search Favonia, VA

Places

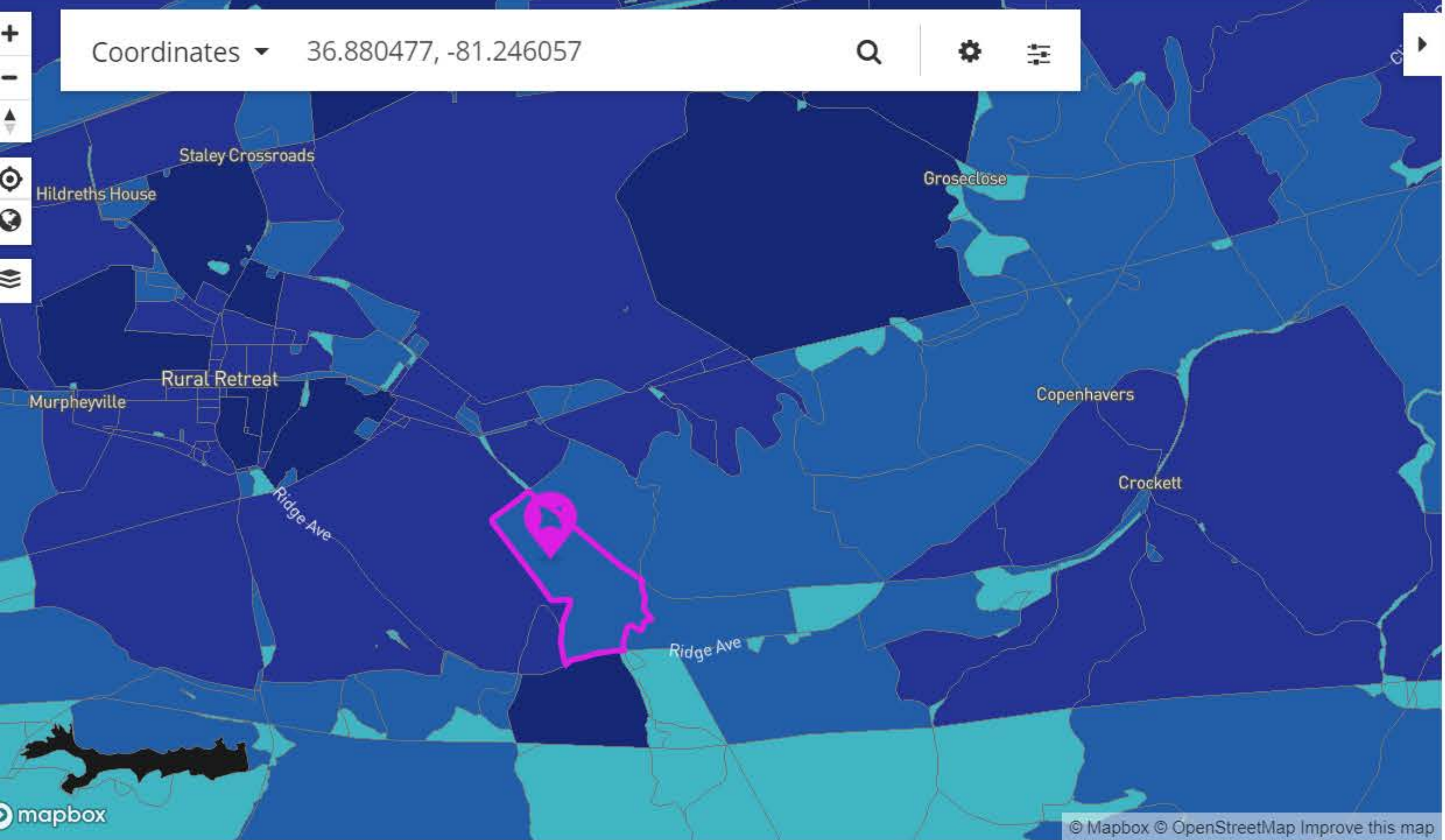
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

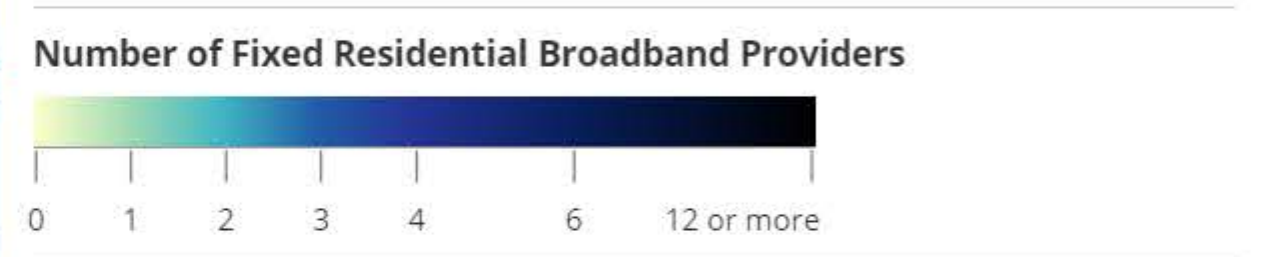


Coordinates 36.880477, -81.246057



All Providers Reporting Service

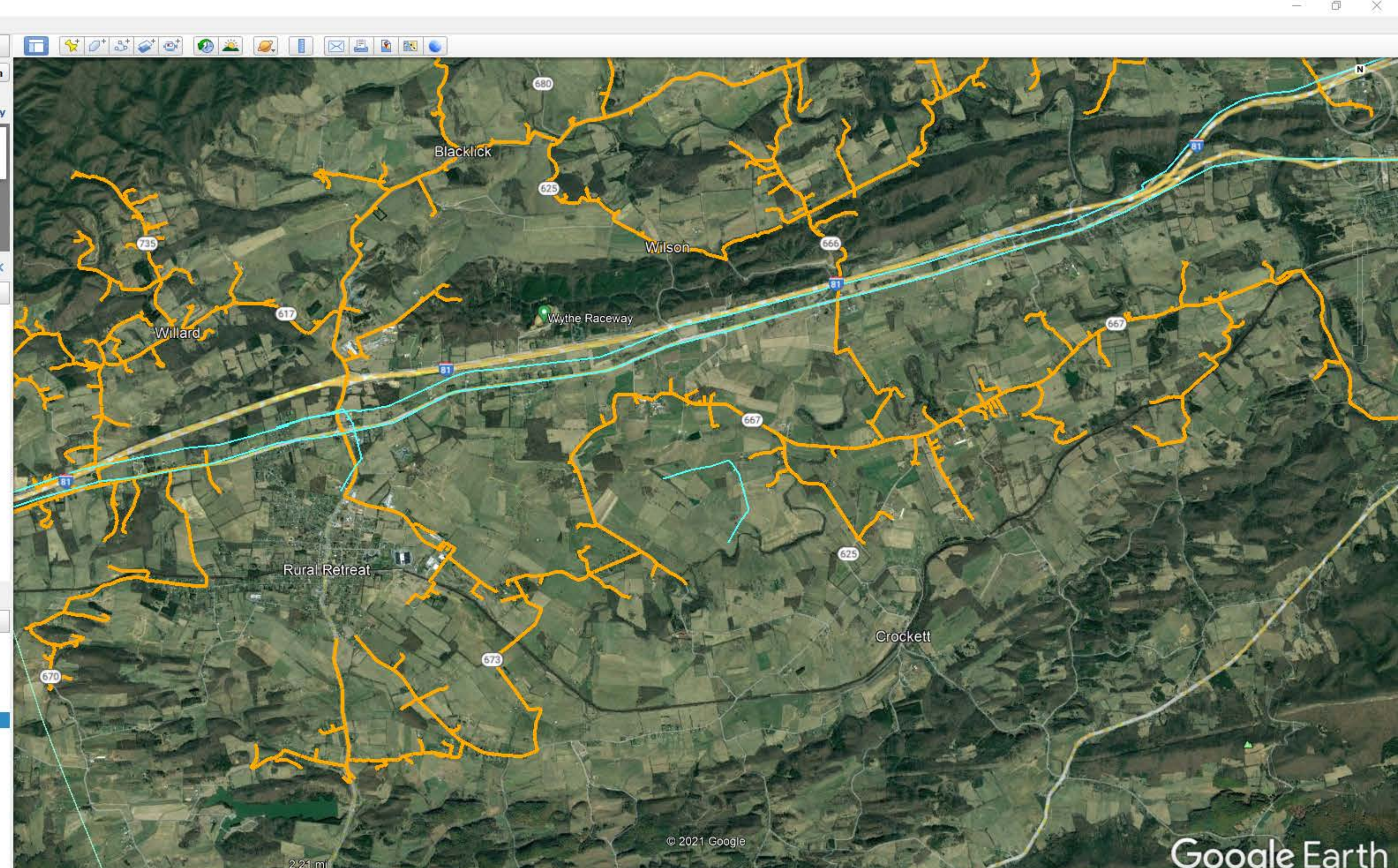
Census block ID: 511970503021016



Broadband Technology: ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed: ≥ 25/3 Mbps
Date: June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
WVA.net Inc.	Fixed Wireless	50	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	10	2
CenturyLink, Inc.	ADSL	3	0.5

Google Earth Pro interface showing search results, places list, and layers panel.



FC Location Summary | Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.868373, -81.255905

All Providers Reporting Service

Census block ID: 511970503021058

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Google Earth Pro

Search Favonia, VA

ex: Pizza near Clayville, NY

Get Directions History

Favonia

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

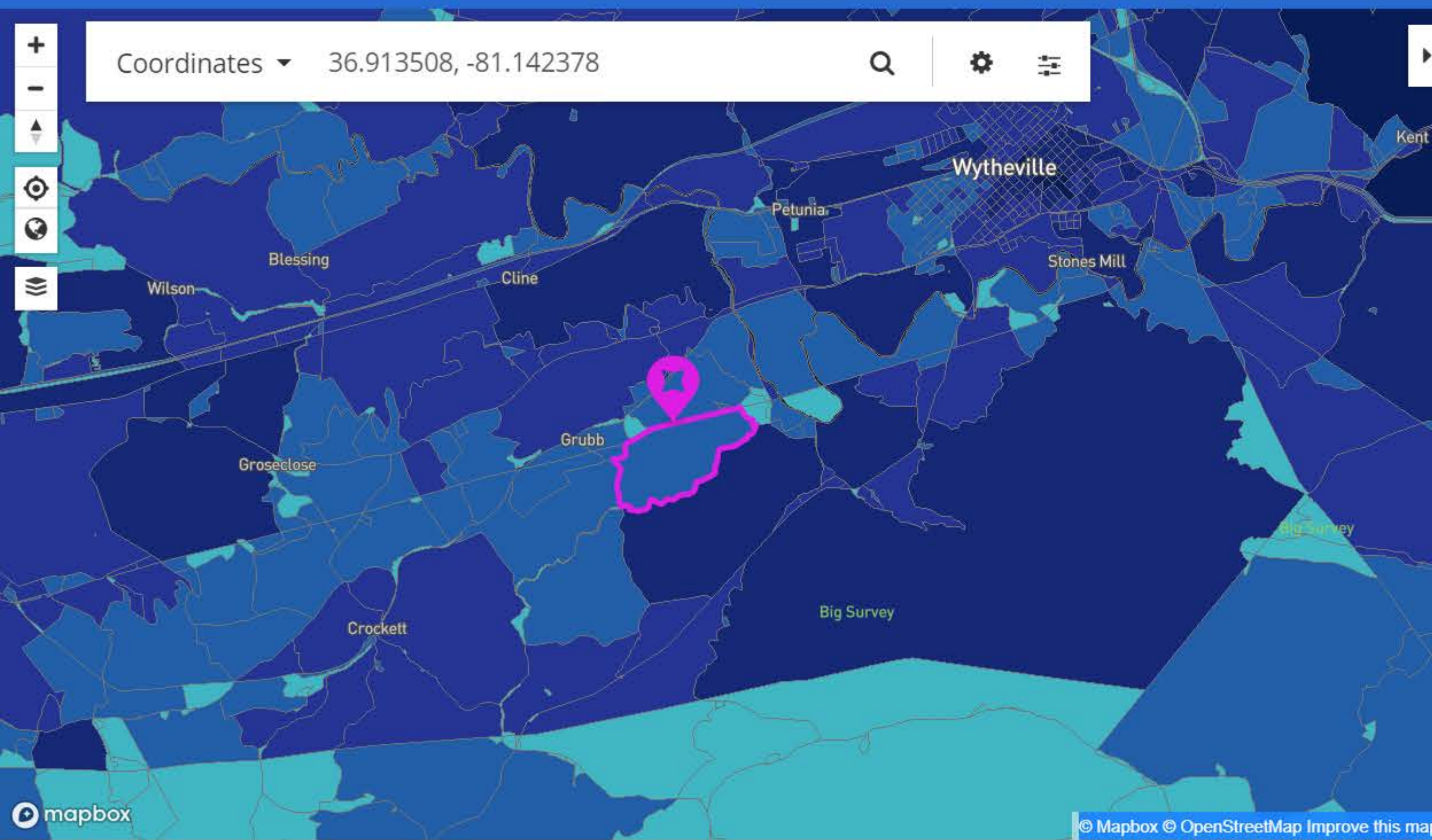
- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

2.21 mi

© 2021 Google

Imagery Date: 3/18/2019 36°54'13.32" N 81°13'13.39" W elev 0 ft eye alt 51112 ft

Google Earth



All Providers Reporting Service

Census block ID: 511970503022013

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
WVA.net Inc.	Fixed Wireless	50	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	10	2
CenturyLink, Inc.	ADSL	10	0.768

Search Favonia, VA

ex: Pizza near Clayville, NY

Get Directions History

Favonia

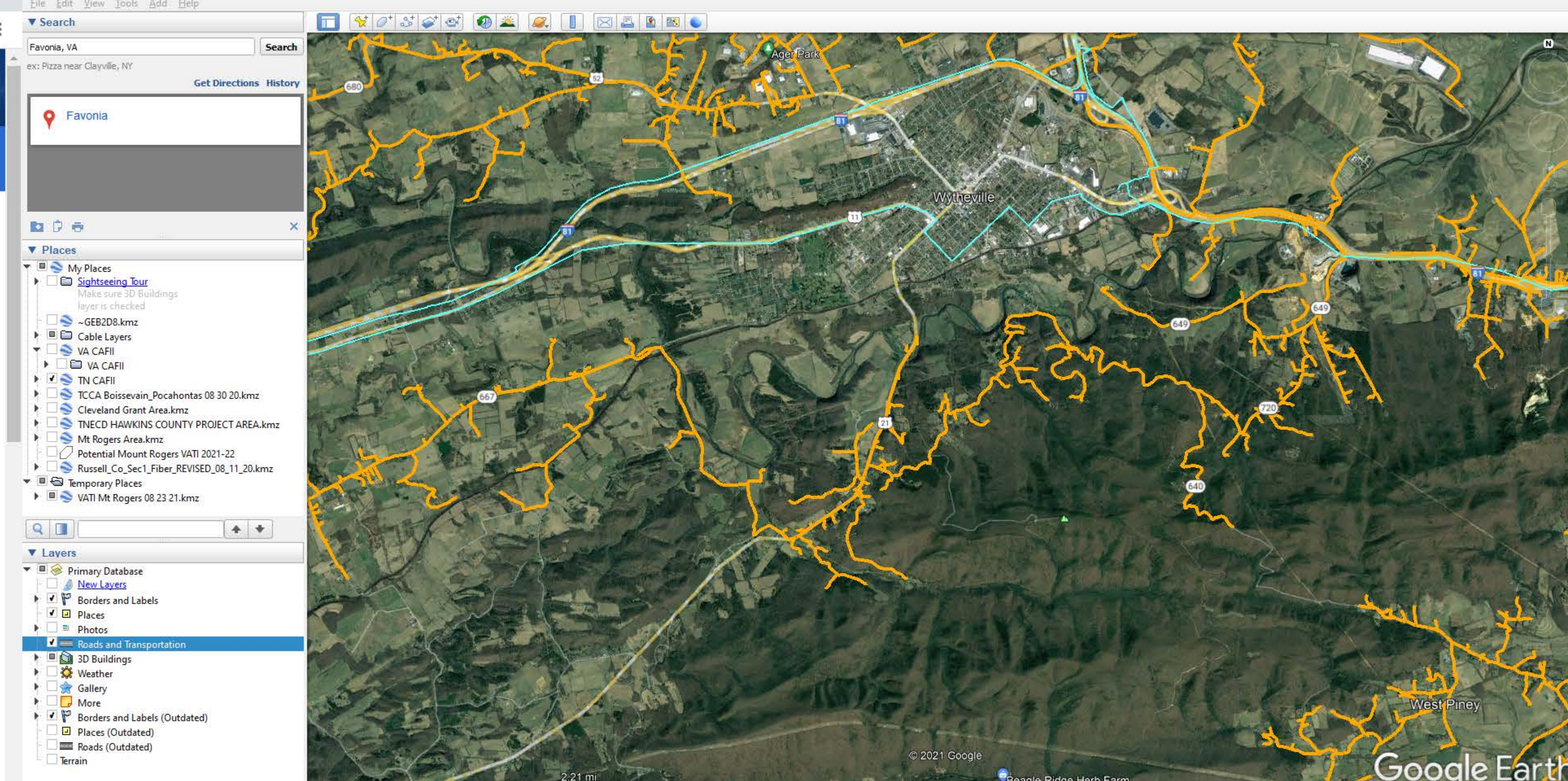
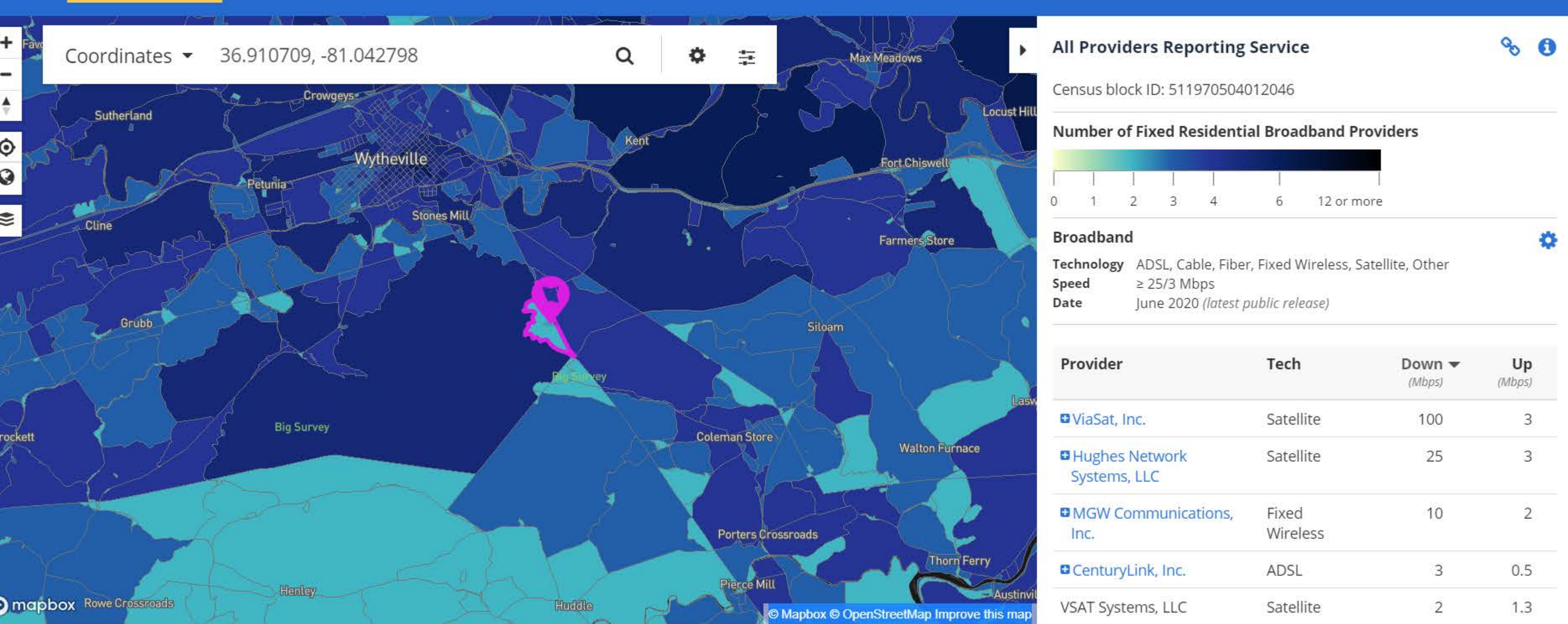
Places

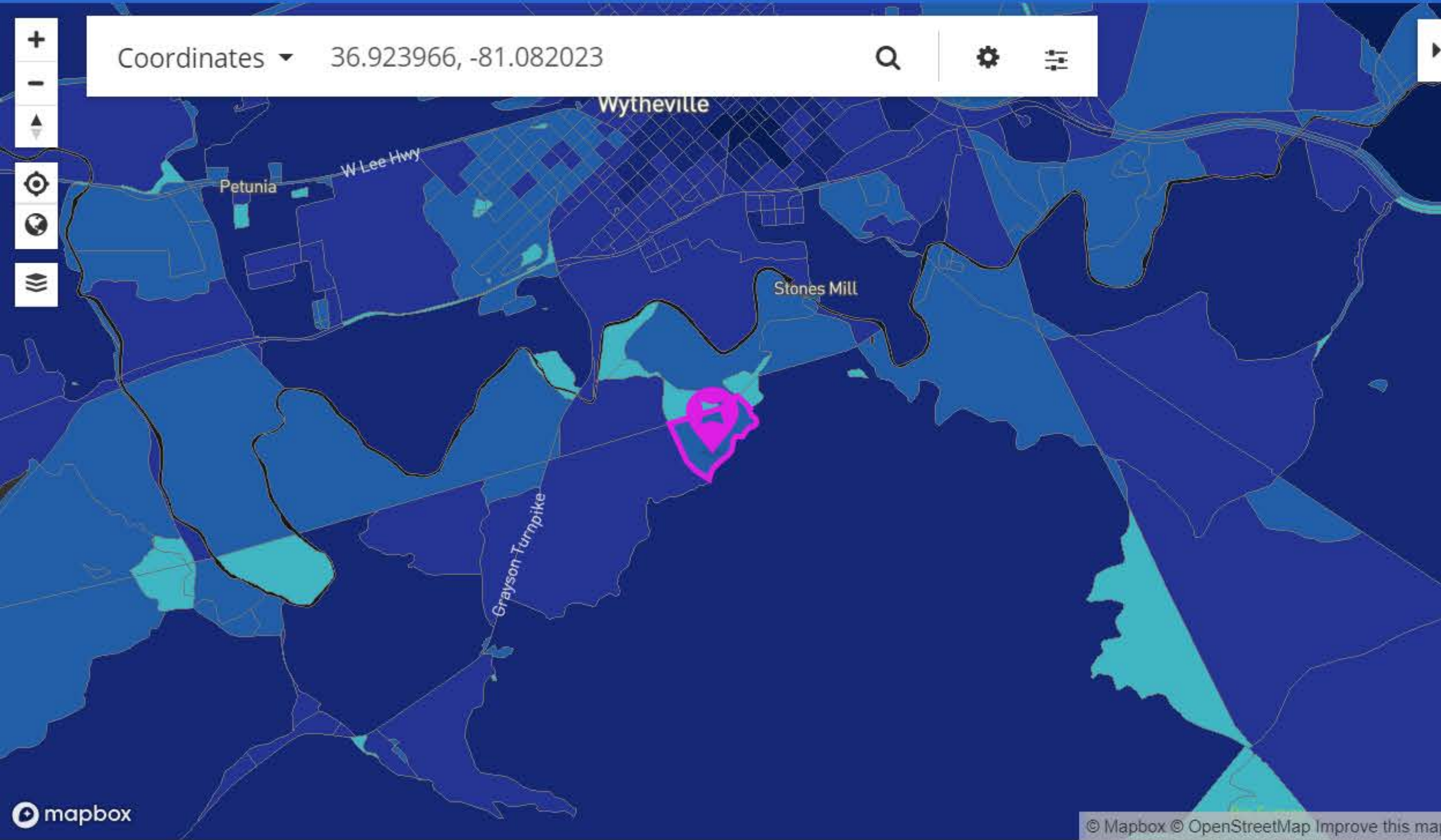
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Satellite map view of the Favonia area. The map shows the terrain and roads. Broadband lines are overlaid in orange and yellow, showing a dense network of connections. Labels on the map include Blacklick, Wilson, Willard, Wythe Raceway, Rural Retreat, and Crockett. A scale bar indicates 2.21 miles.





All Providers Reporting Service

Census block ID: 511970504011015

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
CenturyLink, Inc.	ADSL	40	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	10	2
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Google Earth Pro

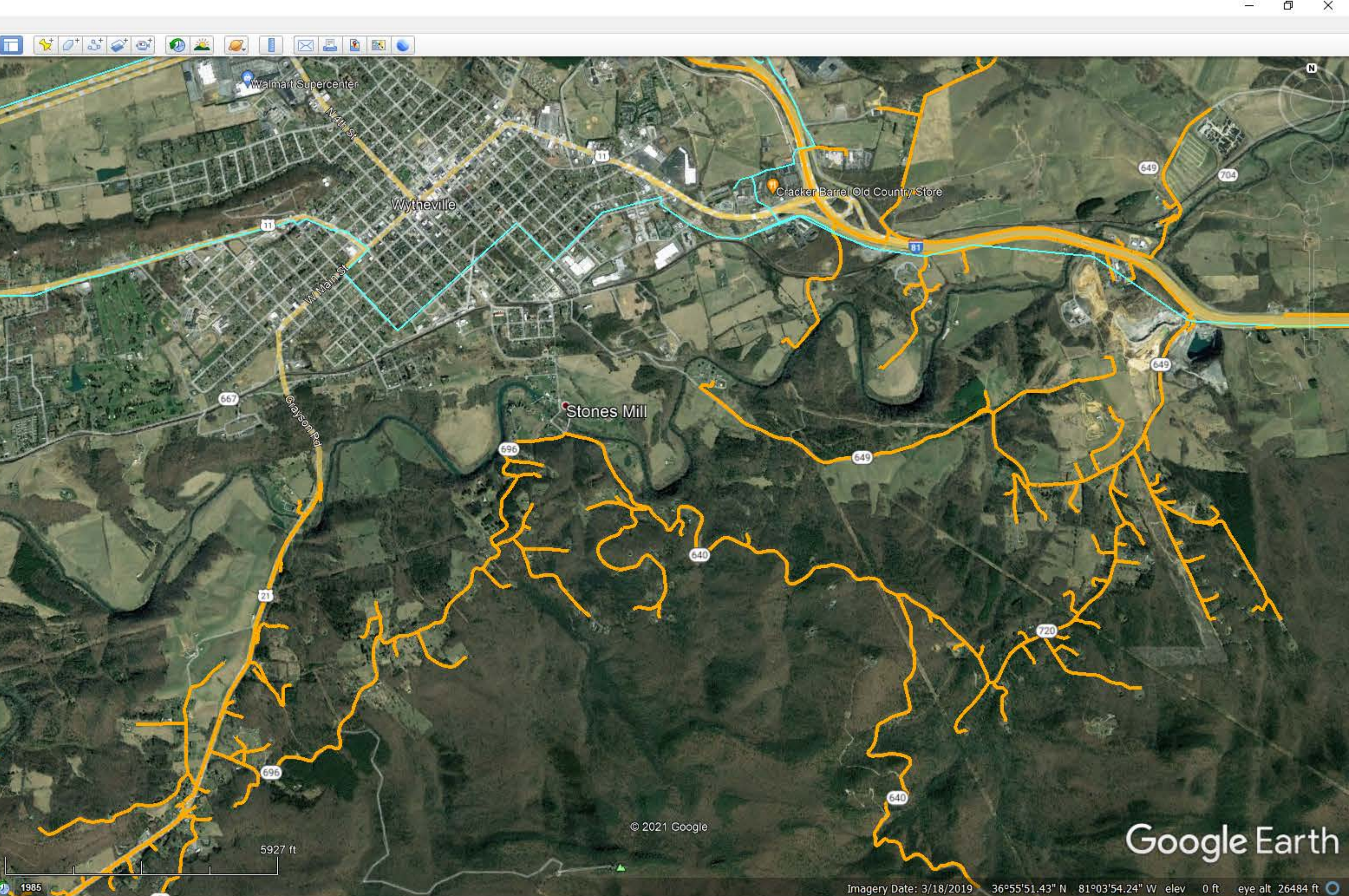
Search: Big Survey Wildlife Management Area, Speedwell, VA

Places:

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Location Summary | Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.93193, -81.073724

Wytheville

Stones Mill

Grayson Turnpike

W Lee Hwy

Petunia

Mapbox

© Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511970504011007

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
CenturyLink, Inc.	ADSL	40	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	10	2
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search

Big Survey Wildlife Management Area, Speedwell, VA Search

ex: Pizza near Clayville, NY

Get Directions History

Big Survey Wildlife Management Area
 Speedwell, VA 24374
 dgif.virginia.gov
 ★★★★★ 2 reviews

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth Pro

File Edit View Tools Add Help

Walmart Supercenter

Wytheville

Stones Mill

Cracker Barrel Old Country Store

649 704

667 696 640 720 640

5927 ft

© 2021 Google

Google Earth

Imagery Date: 3/18/2019 36°55'51.43" N 81°03'54.24" W elev 0 ft eye alt 26484 ft

1985

Location Summary | Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.930346, -81.062073

36.930346, -81.062073
Report an error

All Providers Reporting Service

Census block ID: 511970501002097

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	15	0.75
MGW Communications, Inc.	Fixed Wireless	10	2

Search

Big Survey Wildlife Management Area, Speedwell, VA

ex: Pizza near Clayville, NY

Get Directions History

Big Survey Wildlife Management Area
Speedwell, VA 24374
- dgif.virginia.gov
★★★★★ 2 reviews

Places

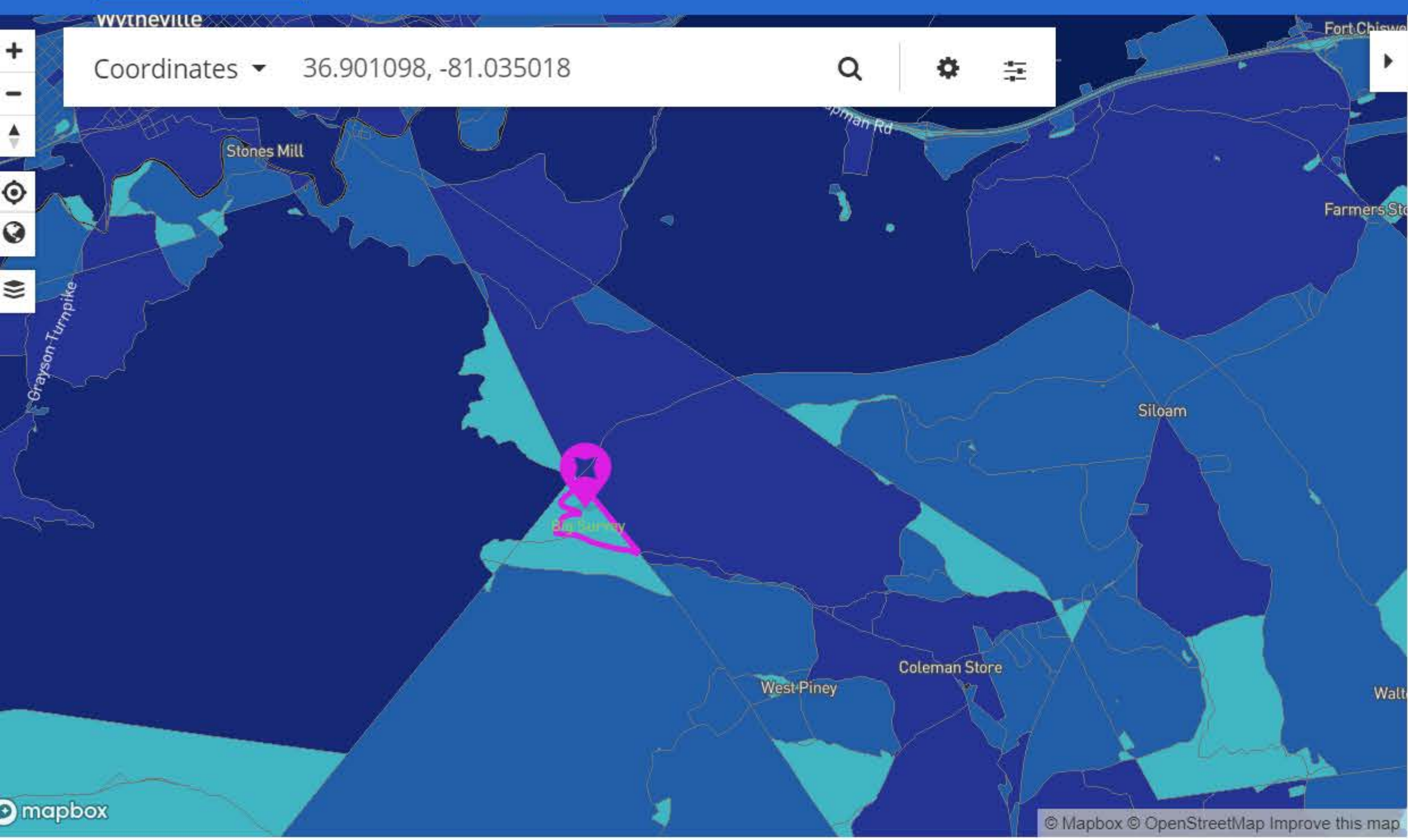
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFIL
- VA CAFIL
- TN CAFIL
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019 36°55'51.43" N 81°03'54.24" W elev 0 ft eye alt 26484 ft



All Providers Reporting Service

Census block ID: 511970504012060

Number of Fixed Residential Broadband Providers



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	10	2
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
VSAT Systems, LLC	Satellite	2	1.3

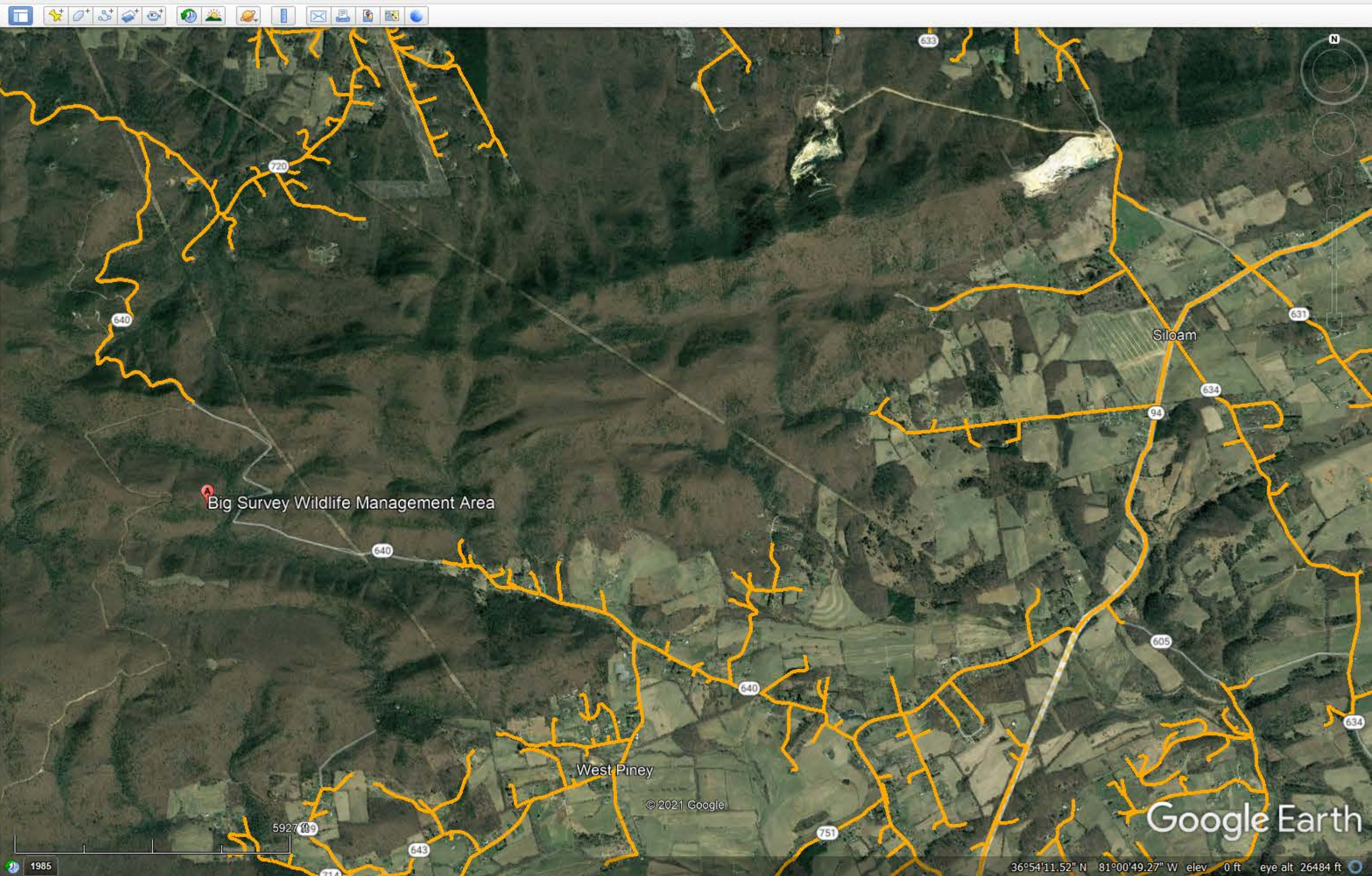
Search: Big Survey Wildlife Management Area, Speedwell, VA

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

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- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Location Summary | Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.88463, -81.013125

All Providers Reporting Service

Census block ID: 511970504011034

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	20	2
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search: Big Survey Wildlife Management Area, Speedwell, VA

Get Directions History

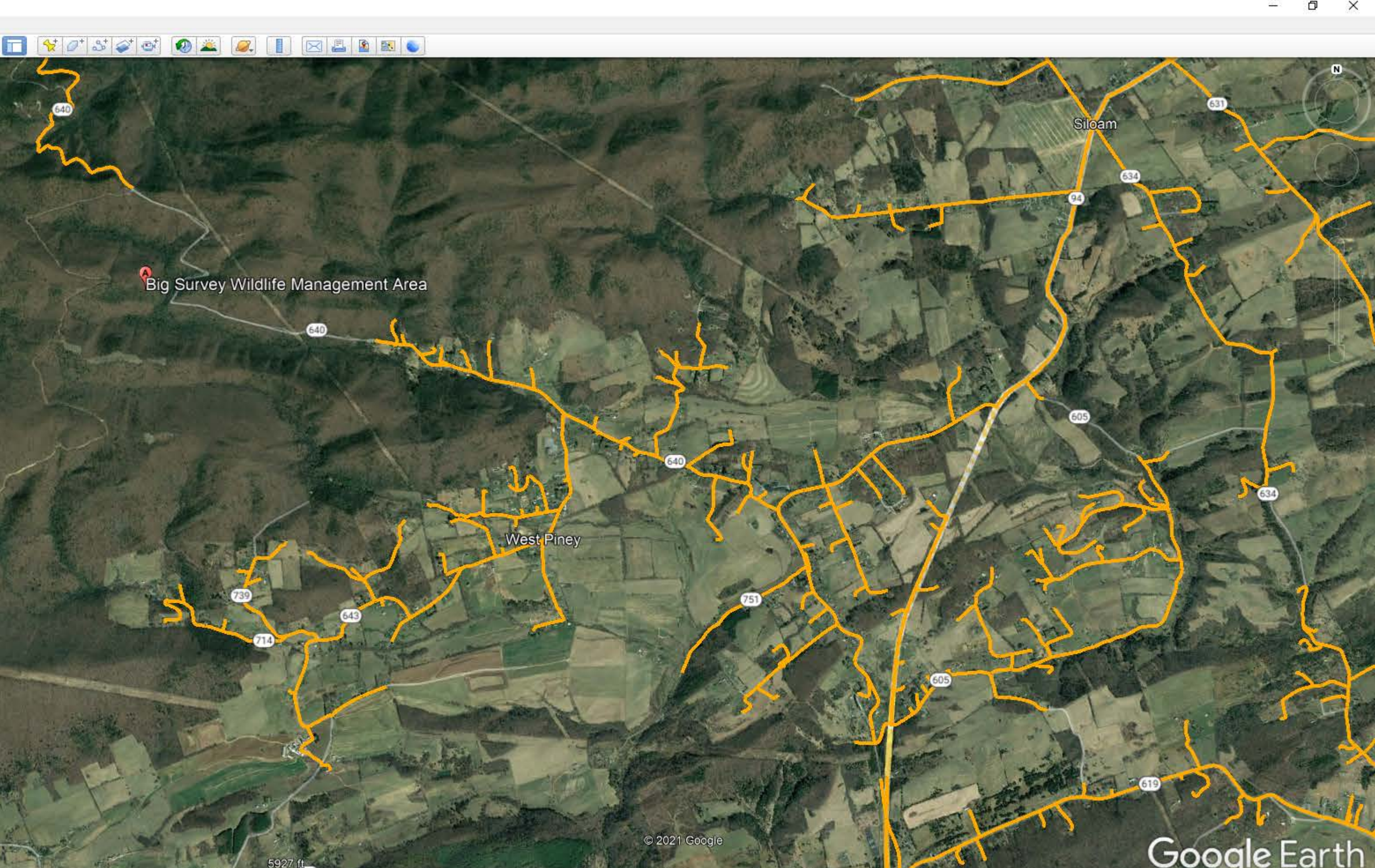
Big Survey Wildlife Management Area
 Speedwell, VA 24374
 - dgif.virginia.gov
 ★★★★★ 2 reviews

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

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- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Location Summary | Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.876871, -80.966326

All Providers Reporting Service

Census block ID: 511970504021016

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	10	2
CenturyLink, Inc.	ADSL	3	0.512
CenturyLink, Inc.	ADSL	3	0.512
Telephone and Data	Fixed	2	0.064

Search Coleman Store, VA

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places

Layers

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- Weather
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- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019 36°53'16.64" N 80°56'24.10" W elev 0 ft eye alt 34422 ft

Coordinates 36.946348, -81.45154

mapbox

All Providers Reporting Service

Census block ID: 511730301001020

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	100	3
WVA.net Inc.	Fixed Wireless	50	3
Smyth Technology Group Inc.	Fixed Wireless	50	50
Hughes Network Systems, LLC	Satellite	25	3

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019 36°57'17.41" N 81°25'41.26" W elev 0 ft eye alt 10.60 mi

Location Summary | Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.961071, -81.518167

All Providers Reporting Service

Census block ID: 511730301001048

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	100	3
Smyth Technology Group Inc.	Fixed Wireless	50	50
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Search: Chatham Hill, VA

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

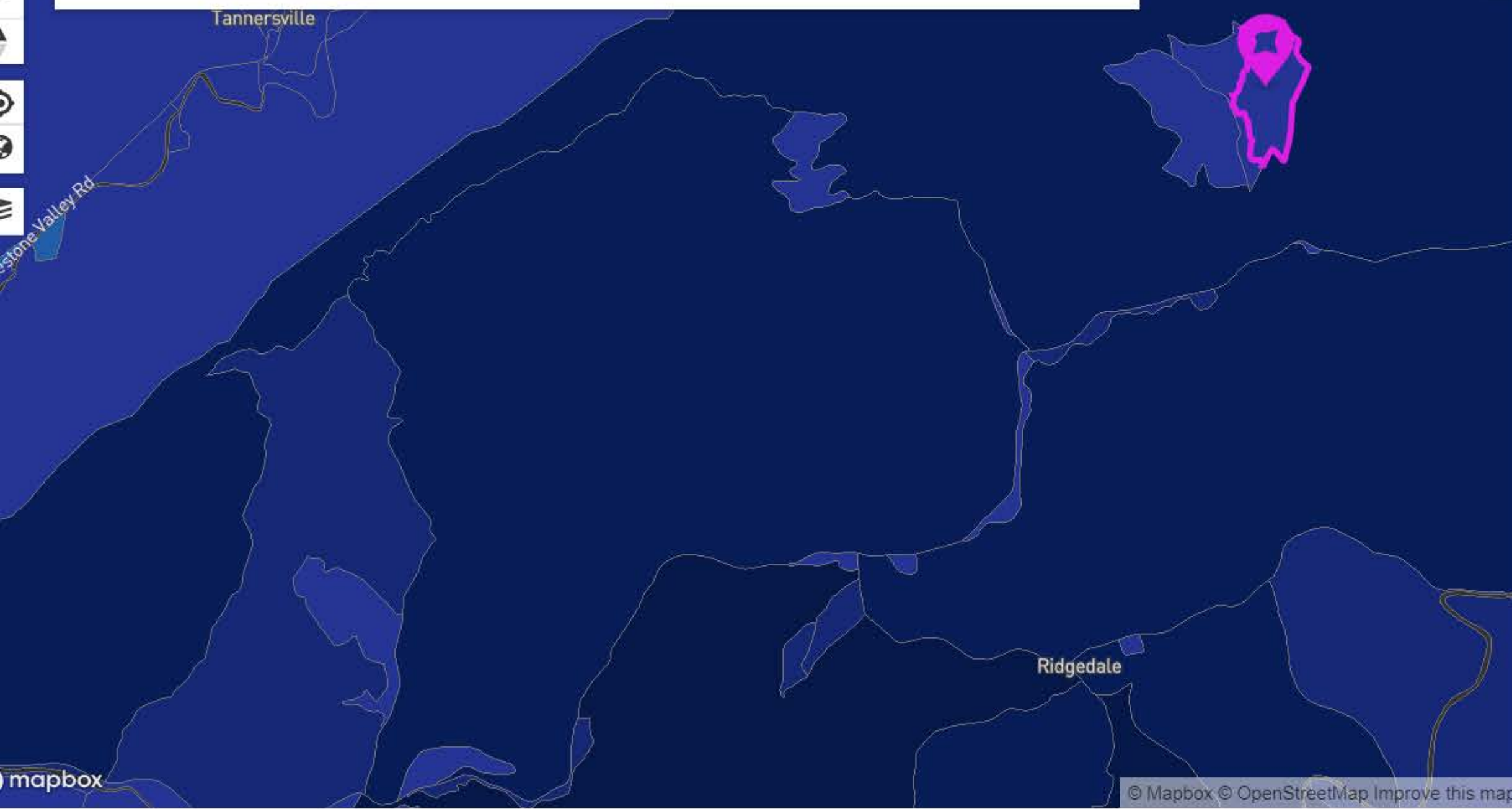
Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

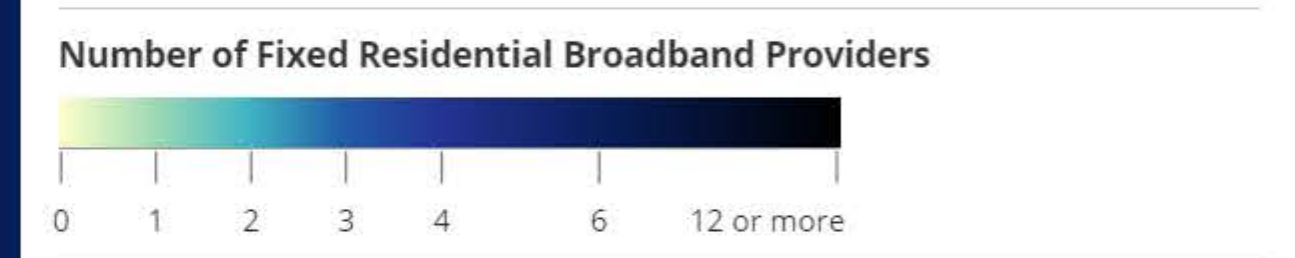
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Coordinates ▾ 36.969837, -81.561935



All Providers Reporting Service

Census block ID: 511730301001070



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	100	3
Smyth Technology Group Inc.	Fixed Wireless	50	50
Hughes Network Systems, LLC	Satellite	25	3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search
 Ridgedale, VA Search

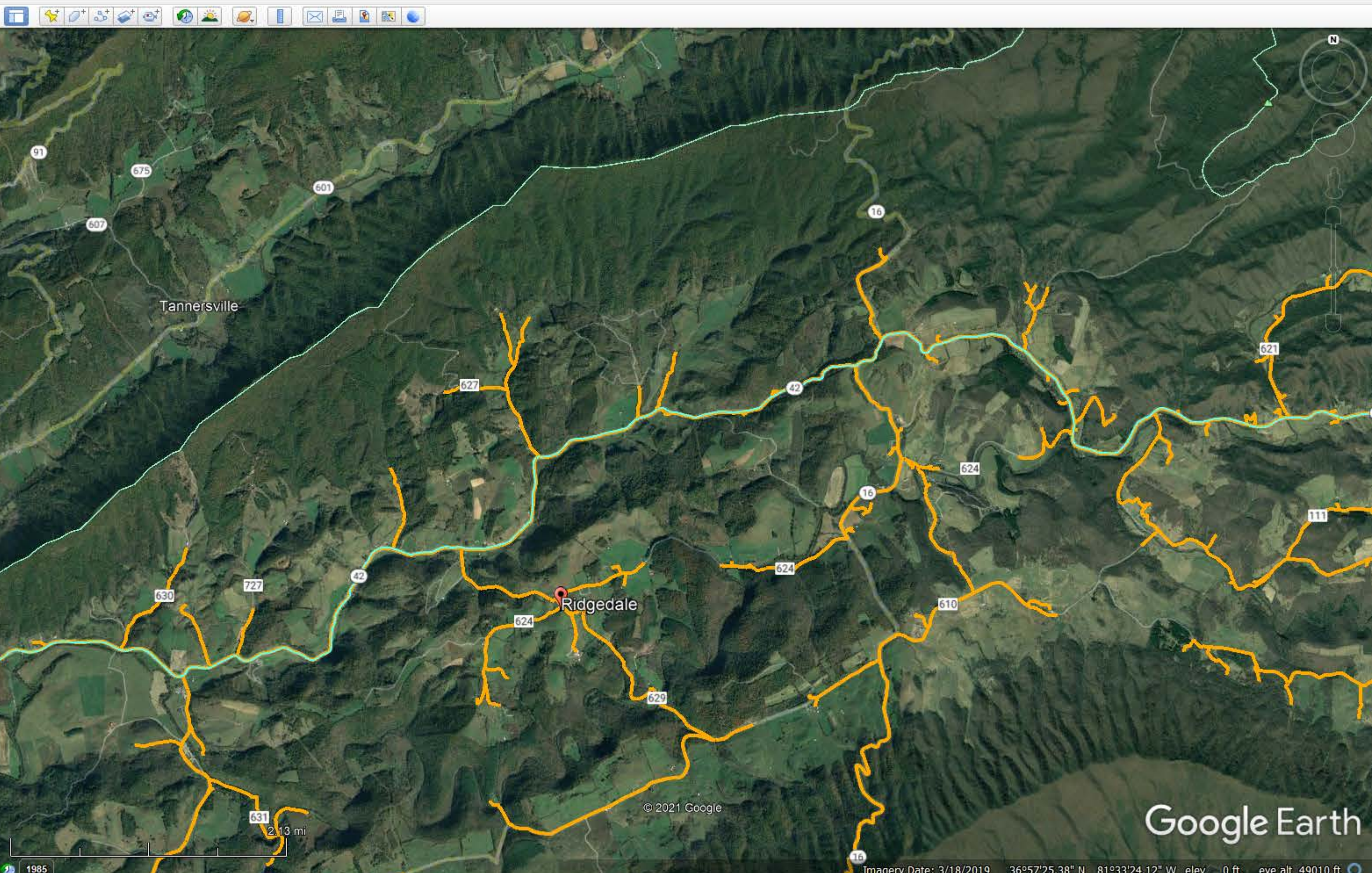
ex: Pizza near Clayville, NY Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Coordinates 36.933391, -81.641696

All Providers Reporting Service

Census block ID: 511730302002054

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search: Riverside, VA

Places:

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
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- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 36°56'15.73" N 81°37'25.40" W elev 0 ft eye alt 27403 ft

Location Summary | Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.89851, -81.752967

All Providers Reporting Service

Census block ID: 511730302001043

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

Google Earth Pro

Search: McCreedy, VA

Places:

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFIL
 - VA CAFIL
 - TN CAFIL
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
 - New Layers
 - Borders and Labels
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 - 3D Buildings
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 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth

Imagery Date: 10/18/2015 36°54'22.87" N 81°43'41.07" W elev 0 ft eye alt 39425 ft

Location Summary | Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.904284, -81.792212

All Providers Reporting Service

Census block ID: 511730302001041

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	3	0.512

Search

McCreedy, VA

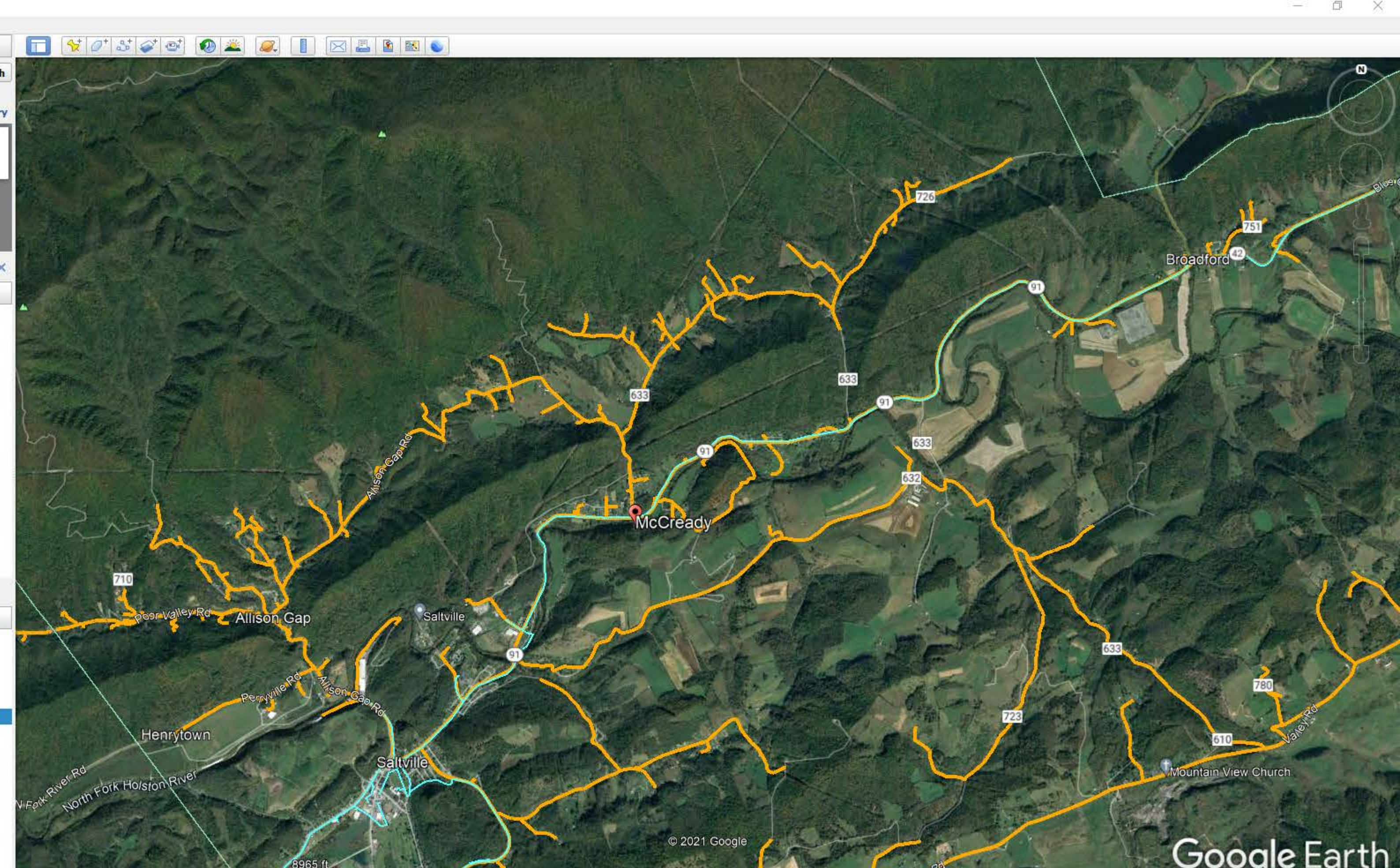
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Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
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- VATI Mt Rogers 08 23 21.kmz

Layers

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- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Coordinates 36.854002, -81.729157

36.854002, -81.729157
Report an error

All Providers Reporting Service

Census block ID: 511730301004063

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
Smyth Technology Group Inc.	Fixed Wireless	50	50
CenturyLink, Inc.	ADSL	40	3
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3

Search Pleasant Heights, VA

Get Directions History

Places

- My Places
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- ~GEB2D8.kmz
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- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
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- Mt Rogers Area.kmz
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- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

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- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/18/2015 36°51'01.29" N 81°42'29.21" W elev 0 ft eye alt 37685 ft

Federal Communications Commission

Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.846067, -81.701787

All Providers Reporting Service

Census block ID: 511730307011000

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Comcast Corporation	Cable	987	35
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data	Fixed	2	0.064

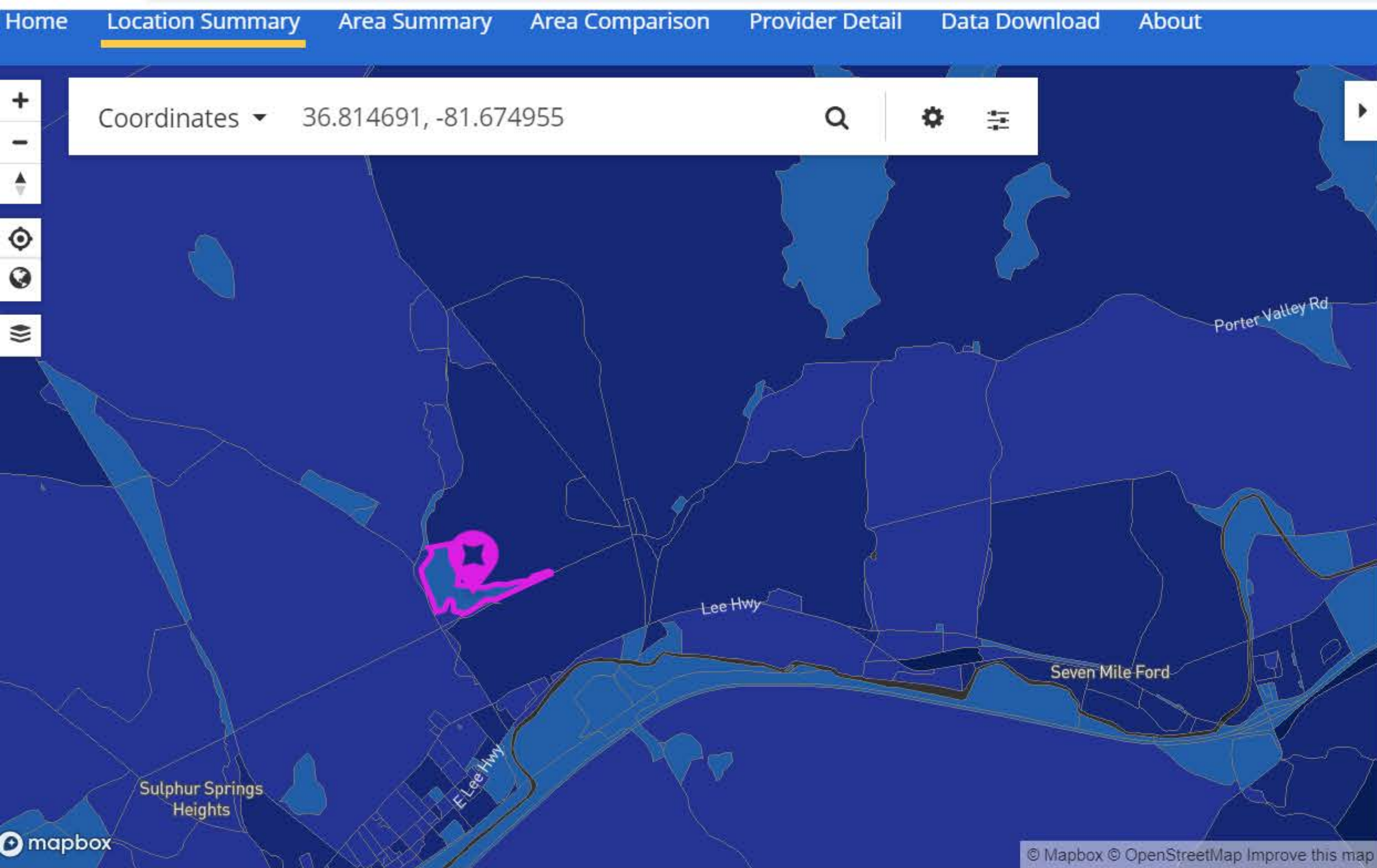
Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

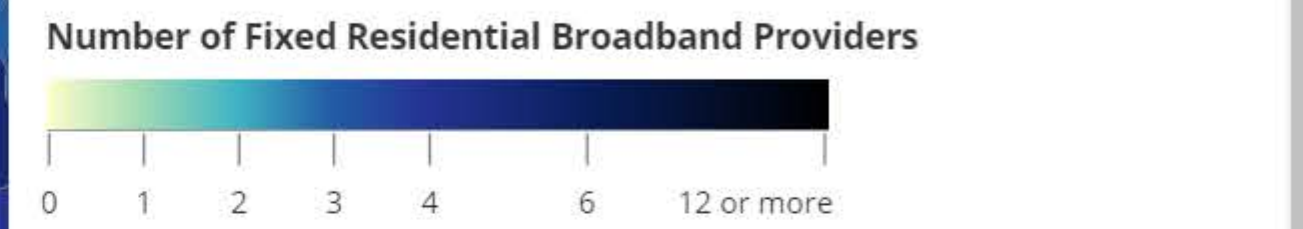
- Primary Database
- New Layers
- Borders and Labels
- Places
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- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Imagery Date: 10/18/2015 36°51'01.29" N 81°42'29.21" W elev 0 ft eye alt 37685 ft



All Providers Reporting Service

Census block ID: 511730307011015



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search: Pleasant Heights, VA

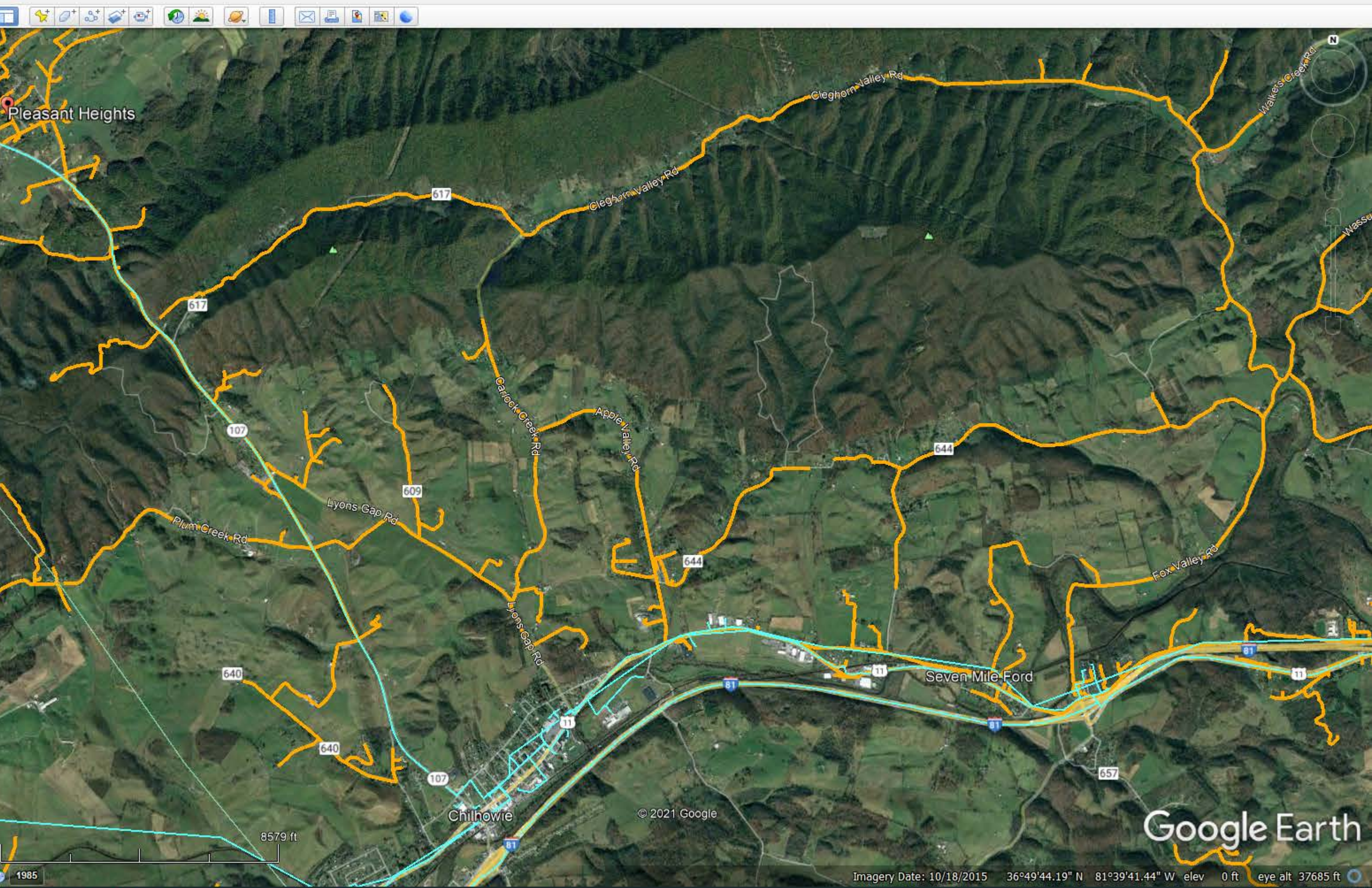
Get Directions History

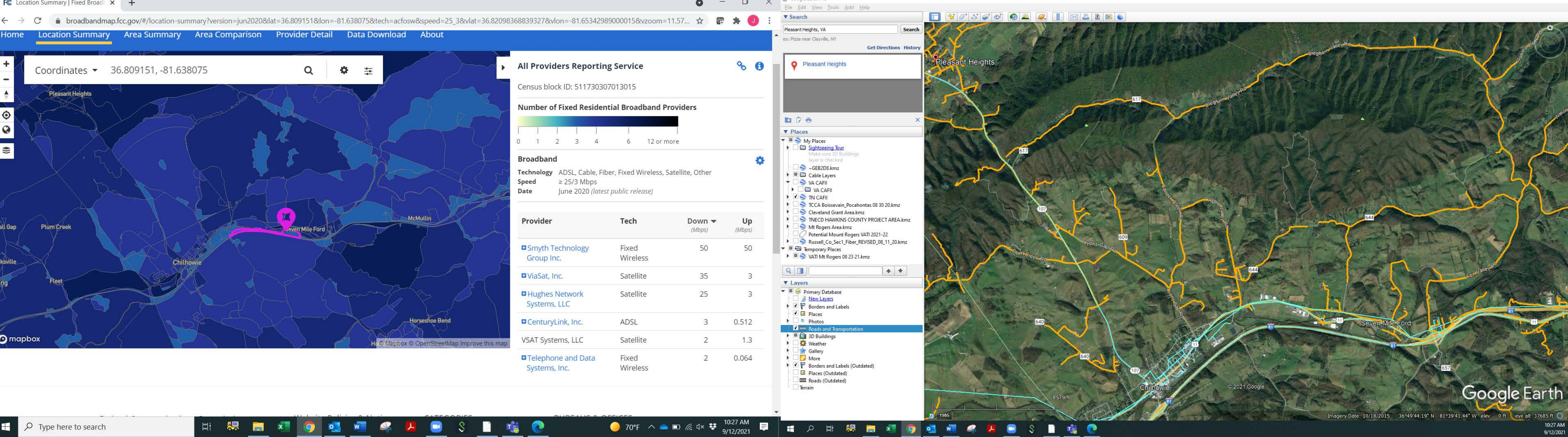
Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
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- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

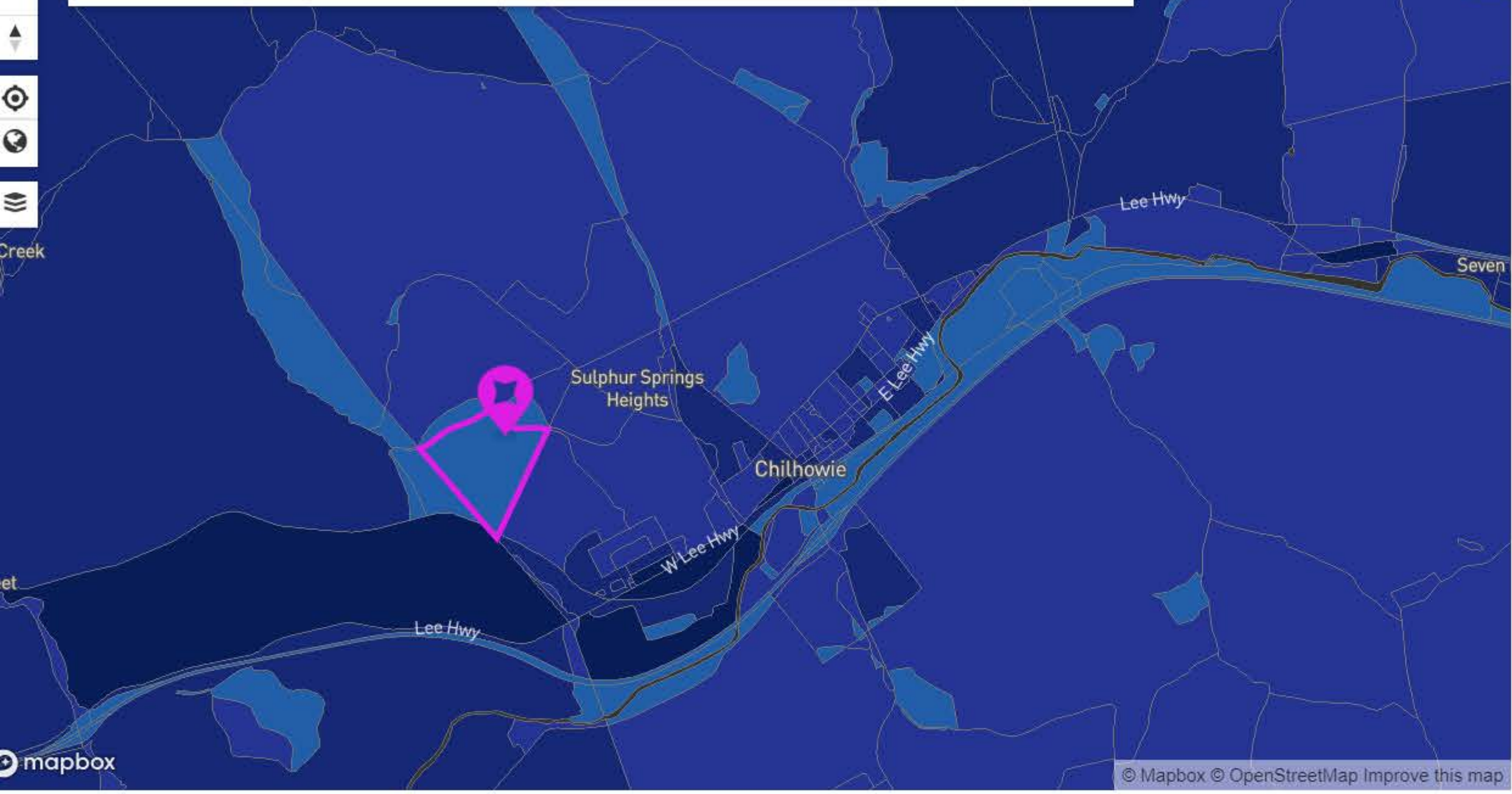
Layers

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- Weather
- Gallery
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- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



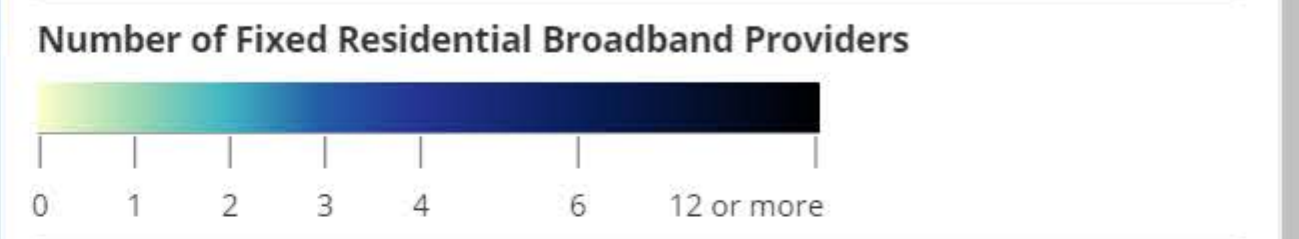


Coordinates 36.800224, -81.703991



All Providers Reporting Service

Census block ID: 511730307014013



Broadband
 Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search Pleasant Heights, VA

Get Directions History

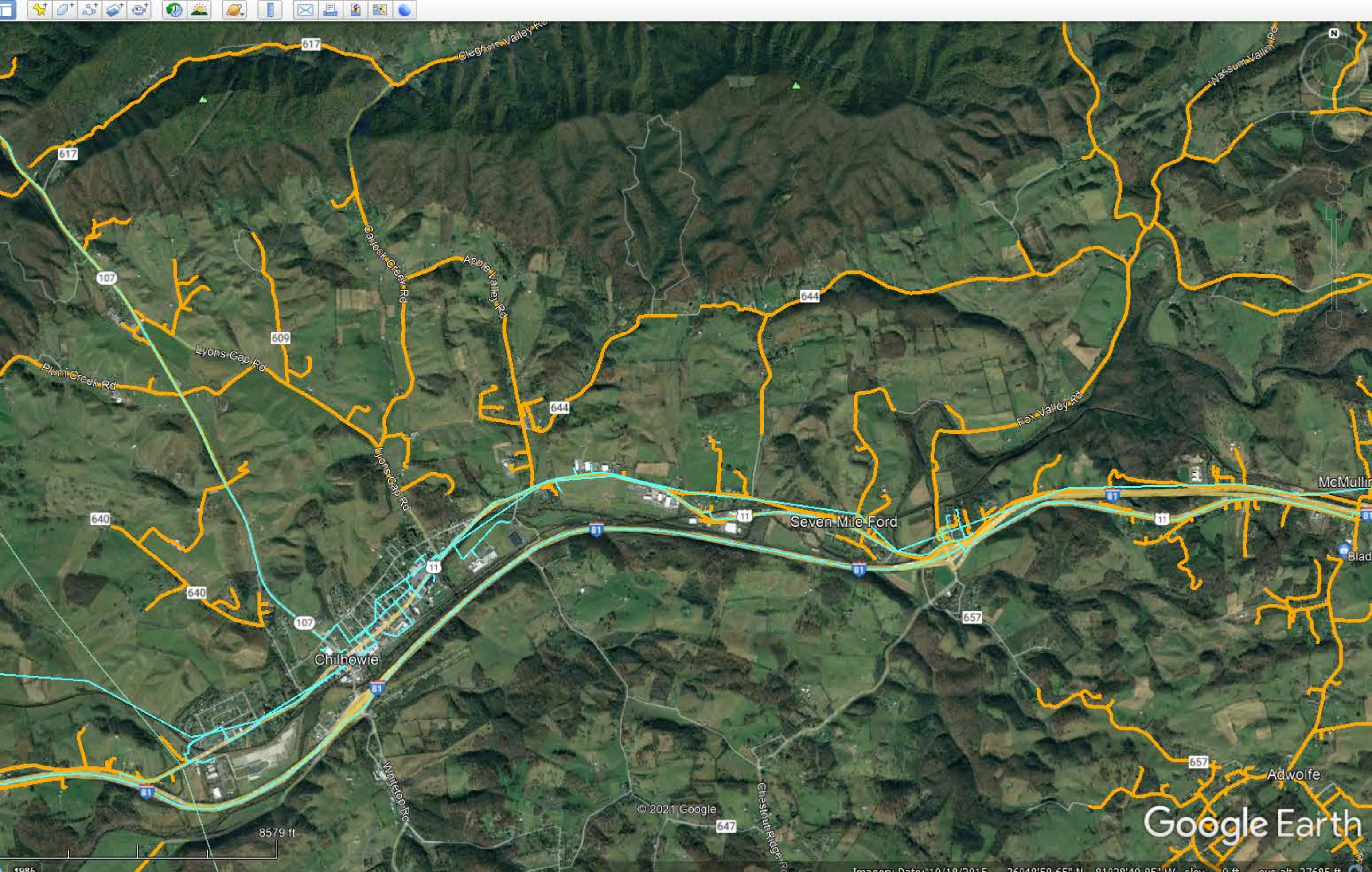
Pleasant Heights

My Places

- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
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- TN CAFII
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- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
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- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
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- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Location Summary | Fixed Broadband

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.793969, -81.55571

All Providers Reporting Service

Census block ID: 511730306002052

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
VSAT Systems, LLC	Satellite	2	1.3

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Google Earth Pro

Search Pleasant Heights, VA

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pochothas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Imagery Date: 11/7/2013 36°46'38.39" N 81°36'24.39" W elev 0 ft eye alt 37685 ft

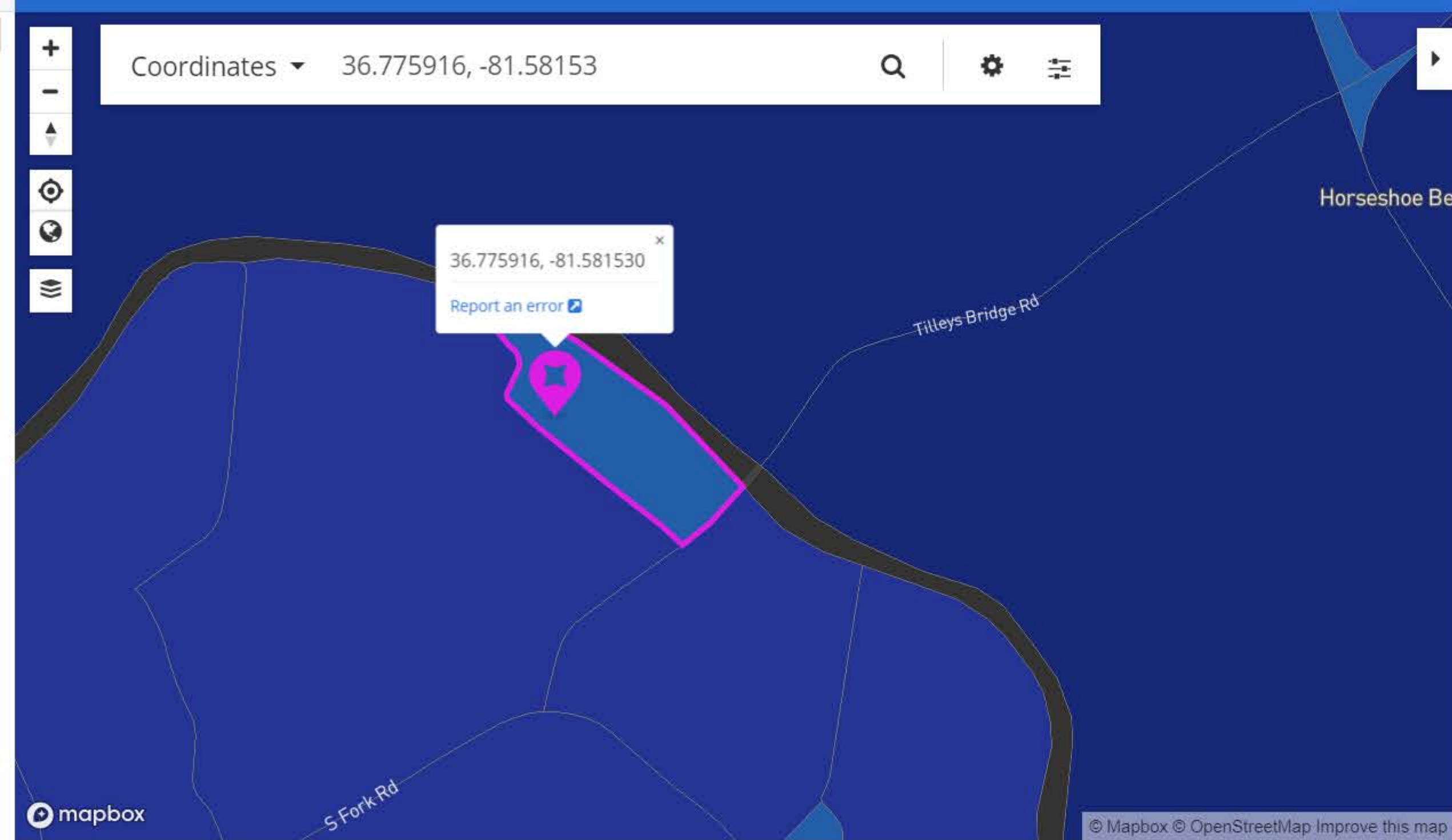
Google Earth

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.775916, -81.58153

36.775916, -81.58153
Report an error

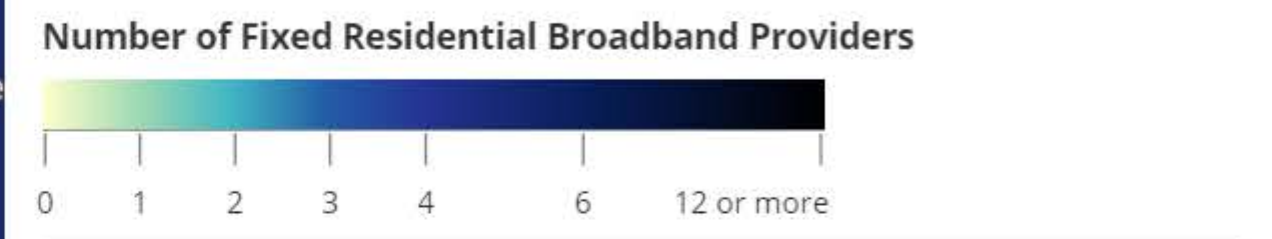
Horseshoe Bend
Tilleys Bridge Rd
S Fork Rd



mapbox
© Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511730307021015



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

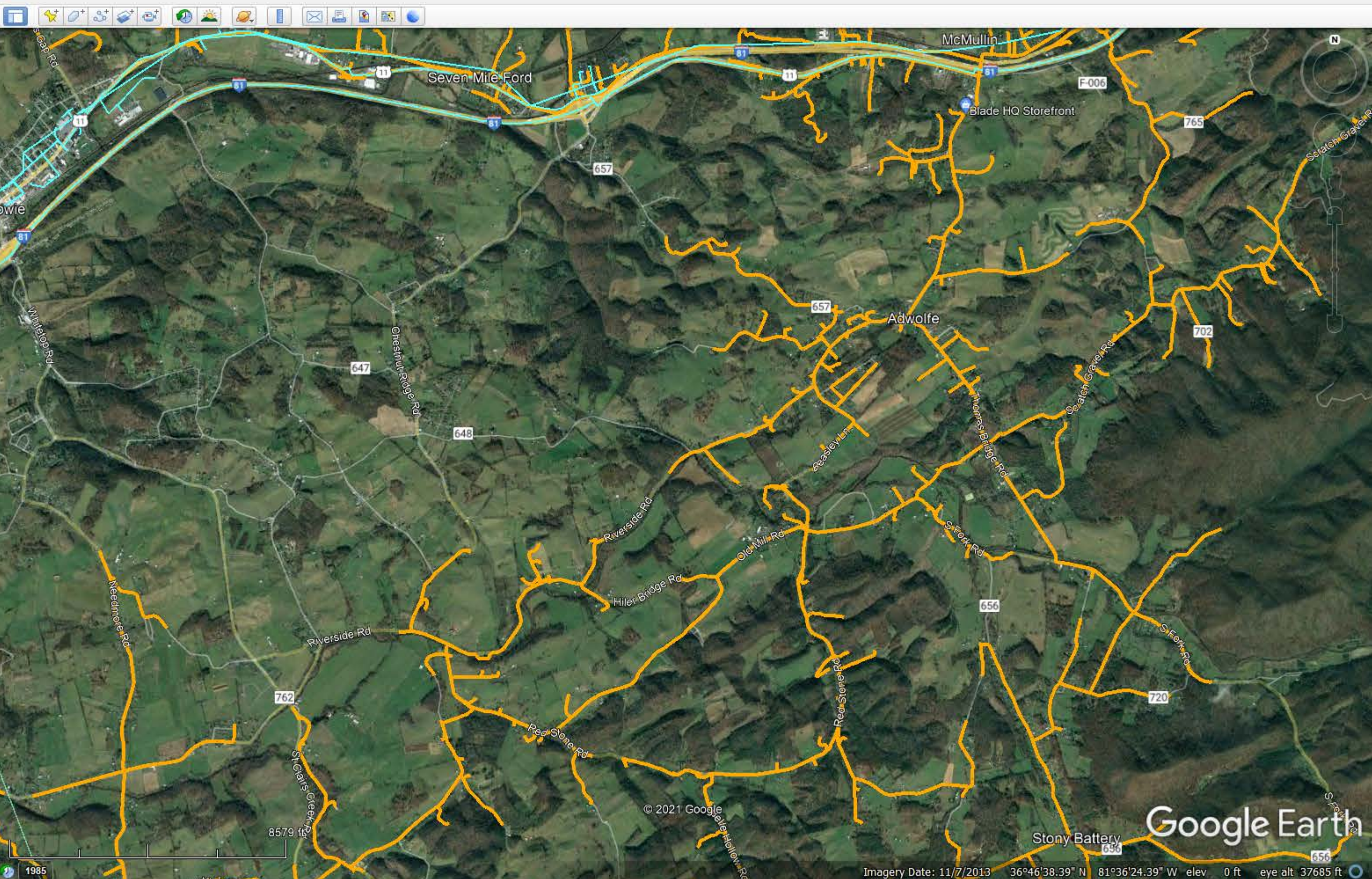
Search
Pleasant Heights, VA
ex: Pizza near Clayville, NY
Get Directions History

Places

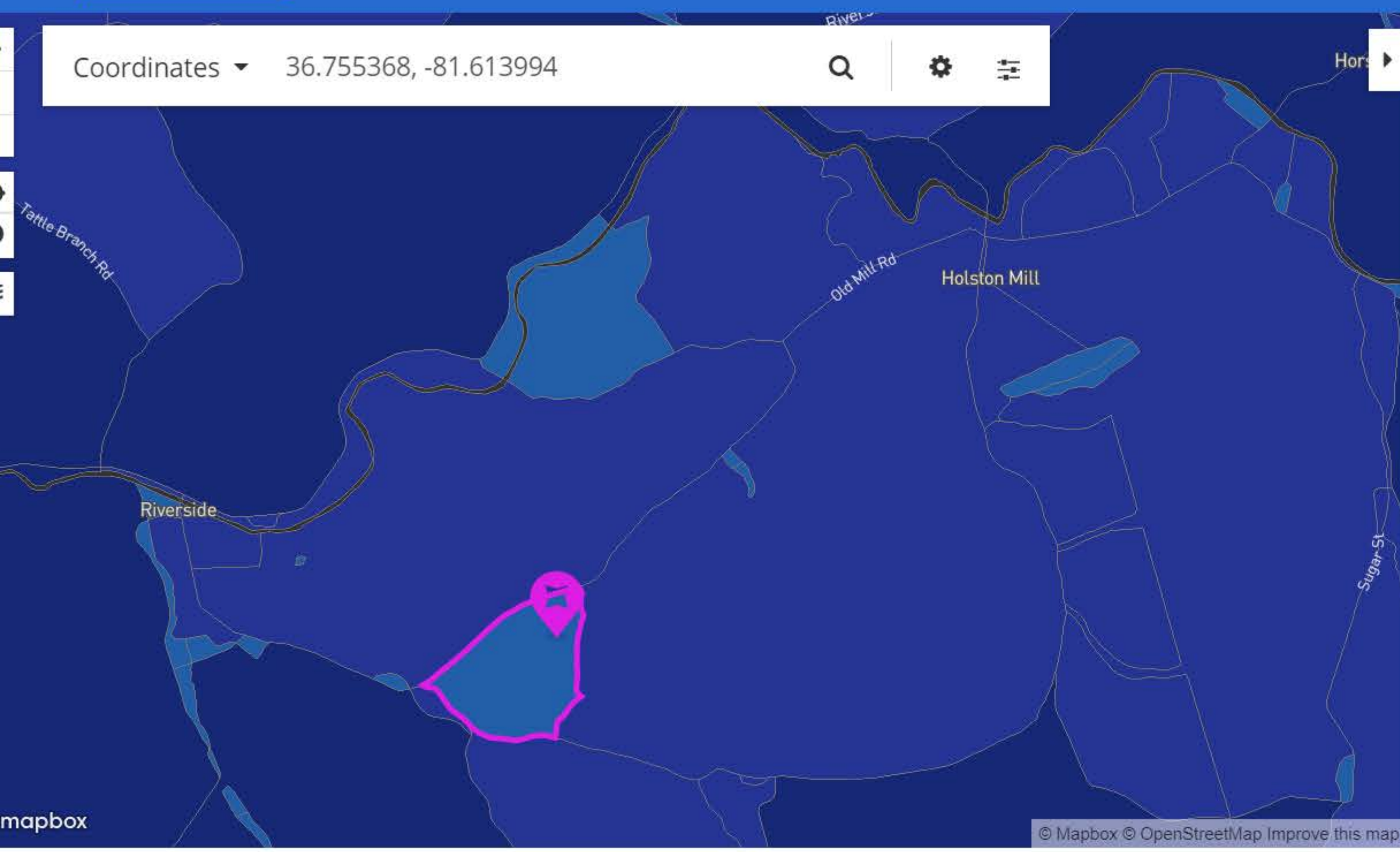
- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



Google Earth
Imagery Date: 11/7/2013
36°46'38.39" N 81°36'24.39" W elev. 0 ft eye alt. 37685 ft



All Providers Reporting Service

Census block ID: 511730307021038

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
VSAT Systems, LLC	Satellite	2	1.3

Search Pleasant Heights, VA

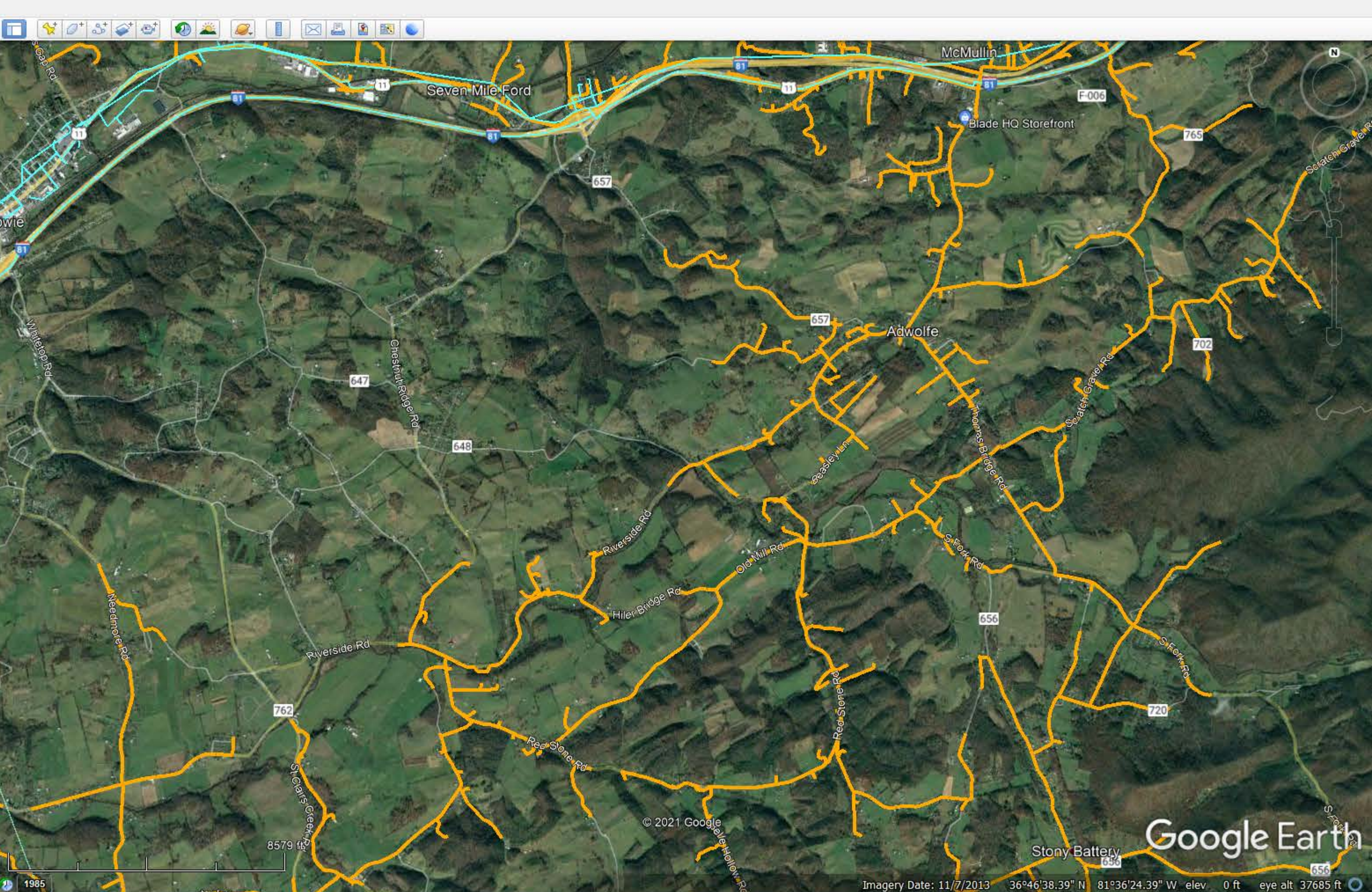
Get Directions History

Places

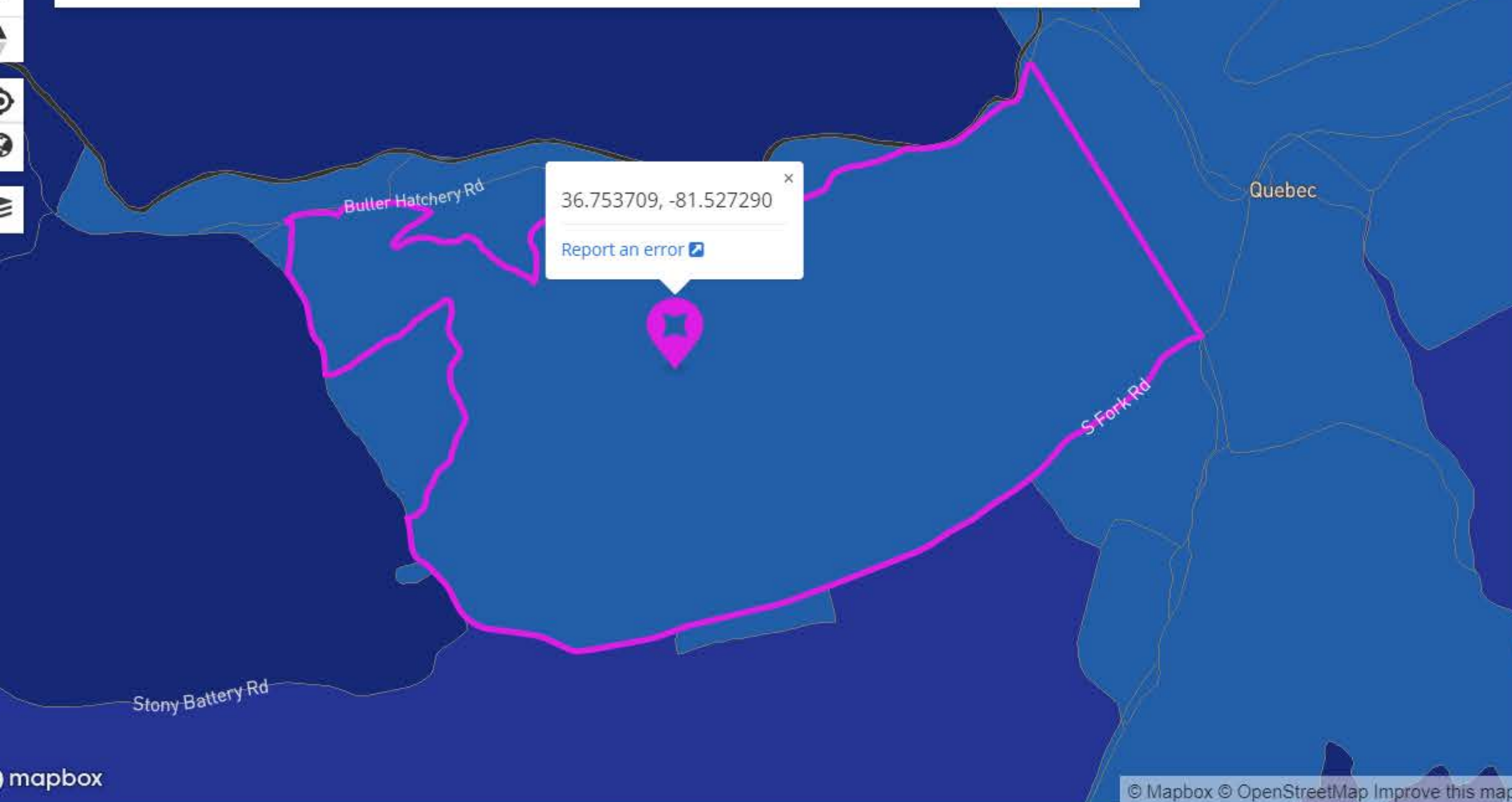
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



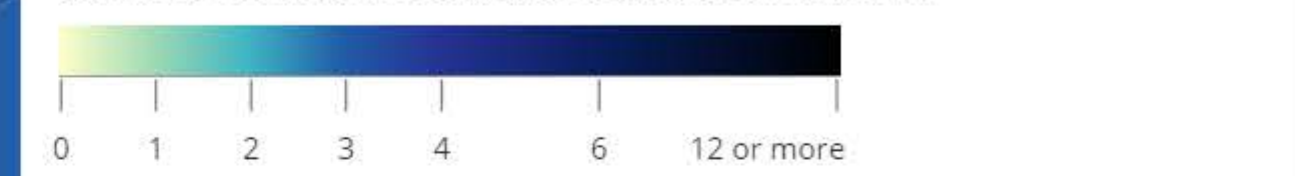
Coordinates 36.753709, -81.52729



All Providers Reporting Service

Census block ID: 511730306002099

Number of Fixed Residential Broadband Providers



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search: Pizza near Clayville, NY

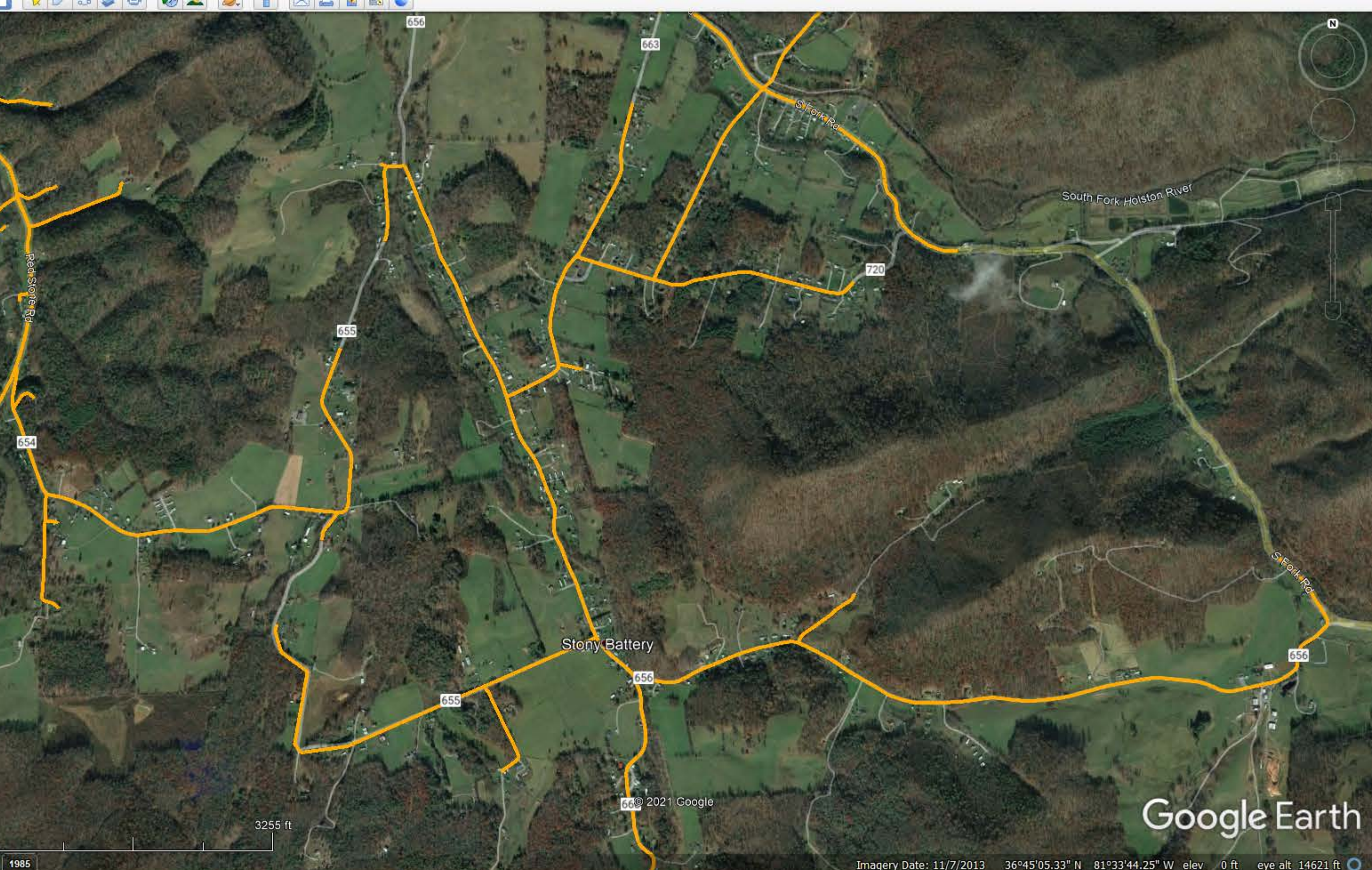
Get Directions History

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Location Summary | Fixed Broadband

breadbandmap.fcc.gov/#/location-summary?version=jun2020&lat=36.732962&lon=-81.598967&tech=acfosw&speed=25_3&vlat=36.733784525068&vlon=-81.60041224039833&vzoom=13.0826...

Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.732962, -81.598967

Stony Battery

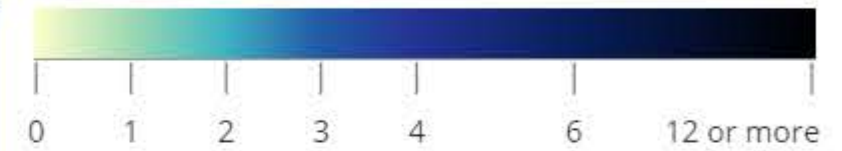
Dry Fork

mapbox © Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511730307022005

Number of Fixed Residential Broadband Providers



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	0.768
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
VSAT Systems, LLC	Satellite	2	1.3

Google Earth Pro

Search ex: Pizza near Clayville, NY

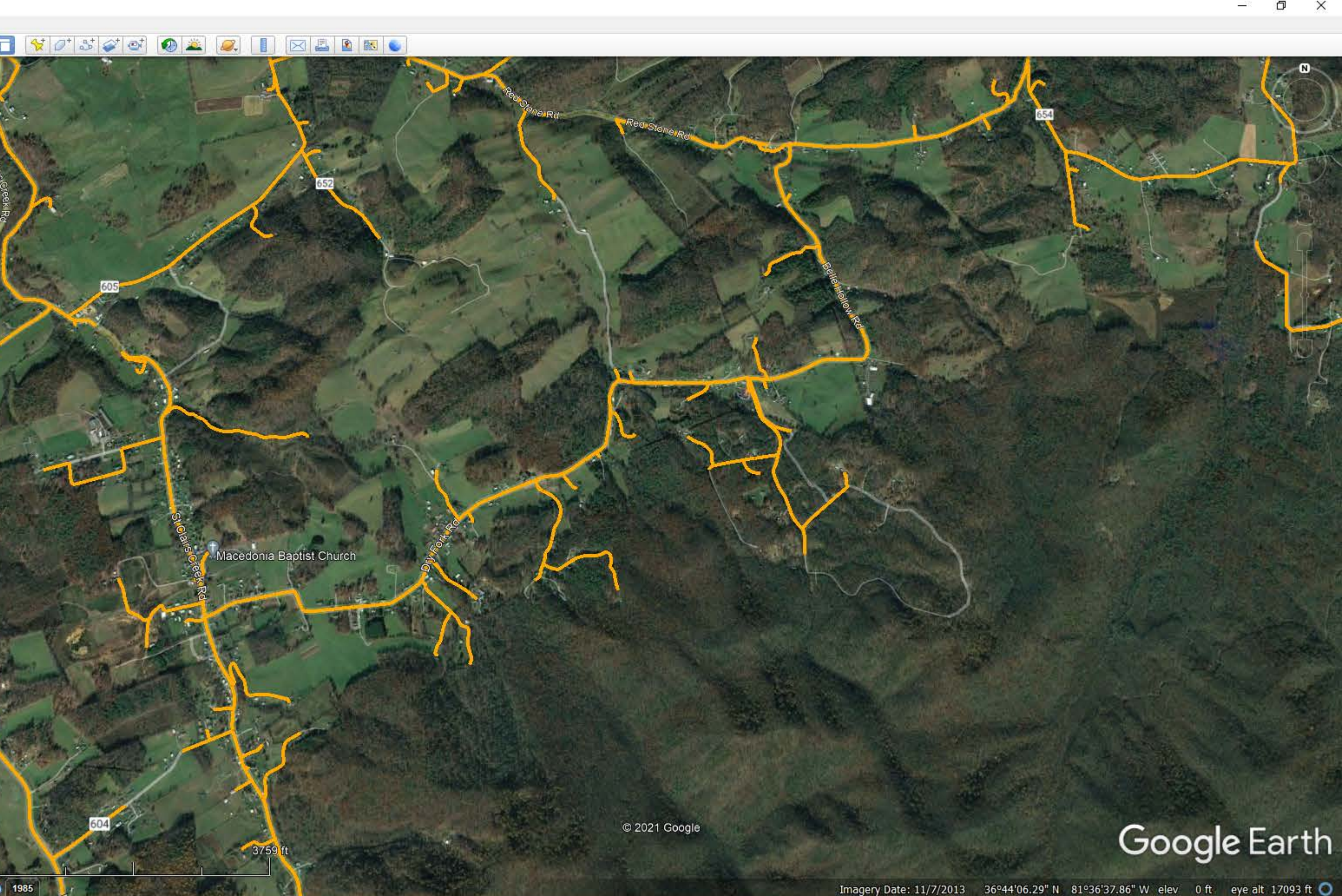
Get Directions History

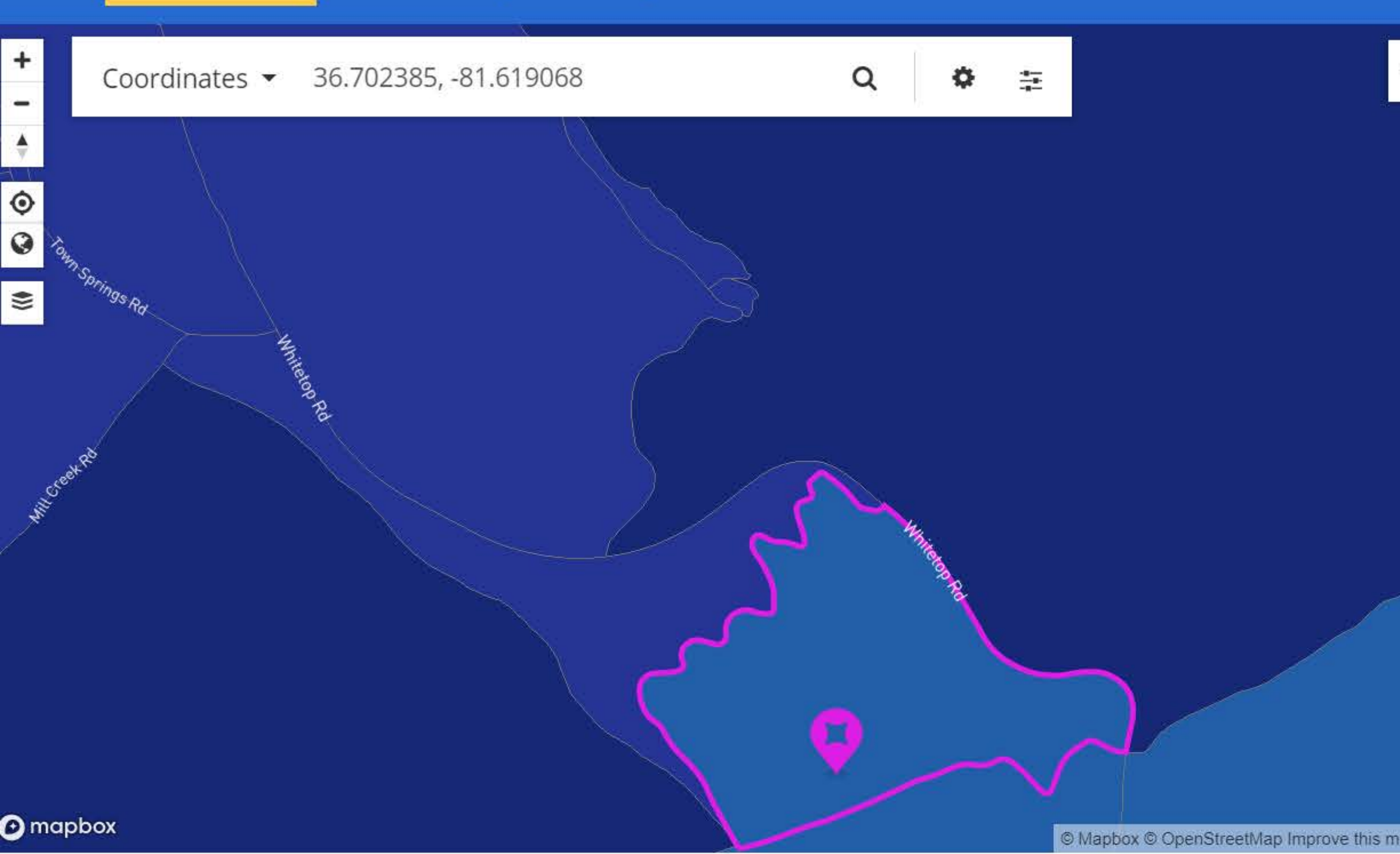
Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
 - Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





All Providers Reporting Service

Census block ID: 511730307023077

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
VSAT Systems, LLC	Satellite	2	1.3

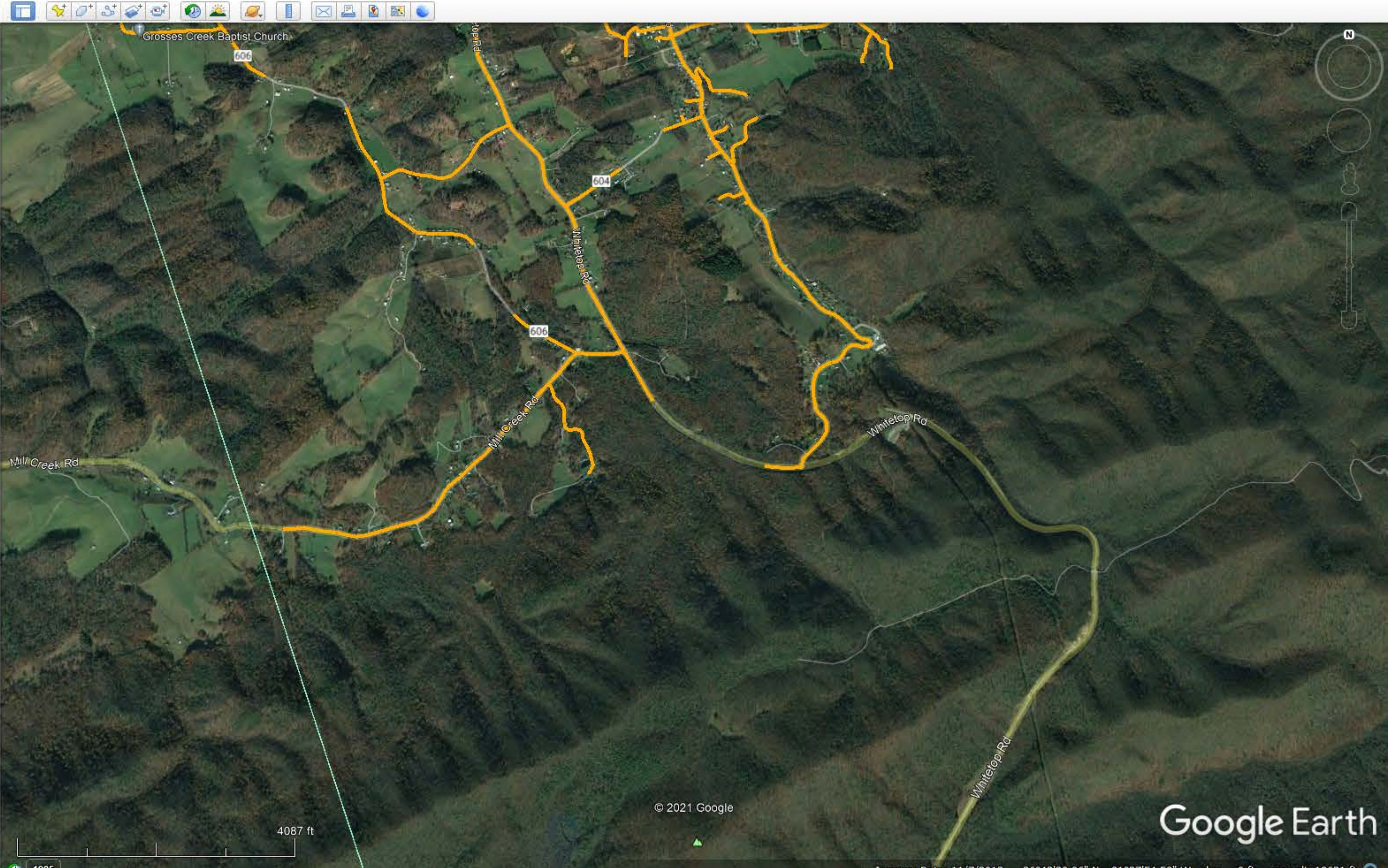
Search ex: Pizza near Clayville, NY [Get Directions](#) [History](#)

Places

- My Places
 - Sightseeing Tour
 - Make sure 3D Buildings layer is checked
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
 - Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



Location Summary | Fixed Broadband

Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.81219, -81.413516

All Providers Reporting Service

Census block ID: 511730305001088

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Smyth Technology Group Inc.	Fixed Wireless	50	50
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

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Search: Nicks Creek Road, Atkins, VA

Get Directions History

Places

- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

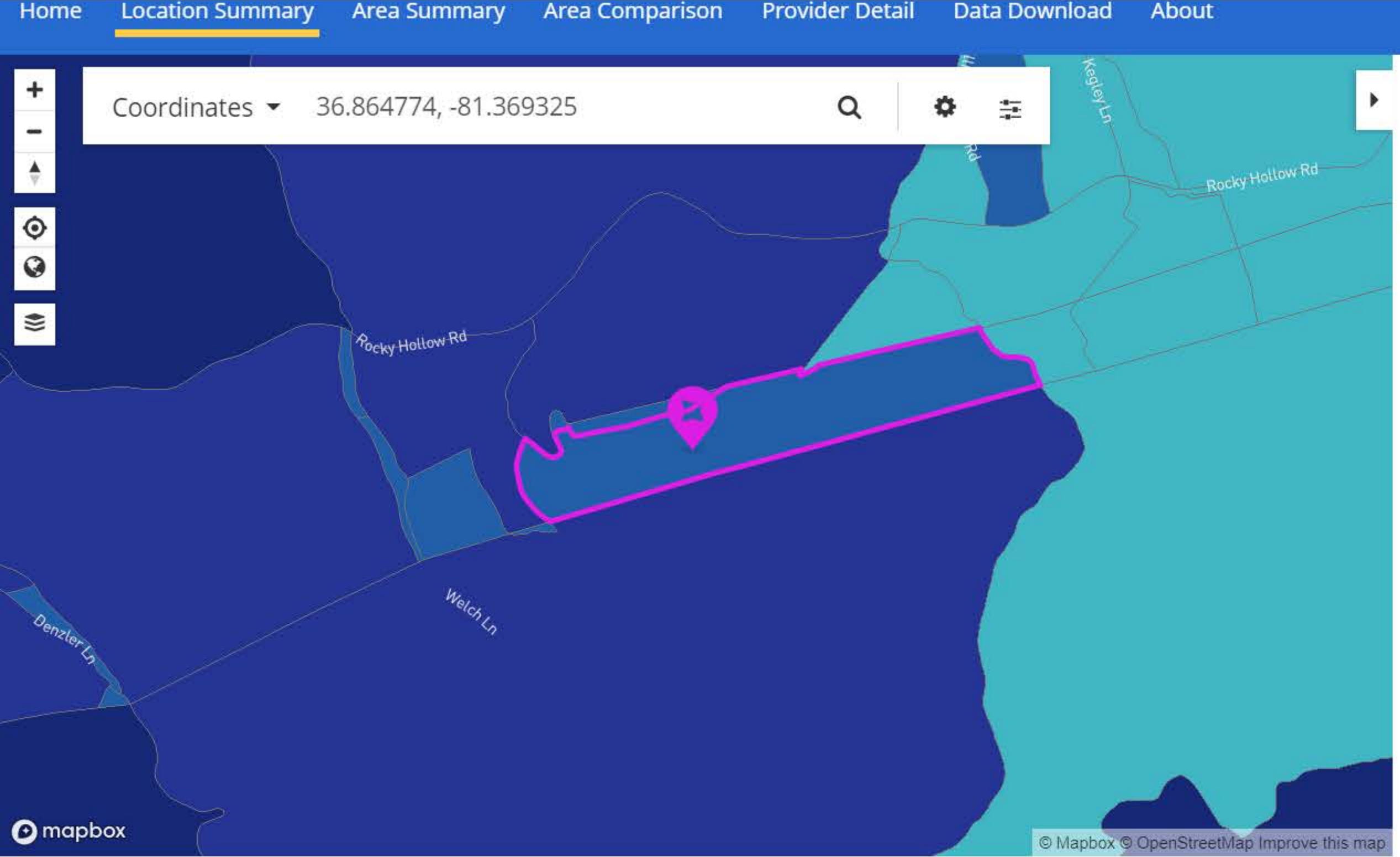
Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

© 2021 Google

Google Earth

Imagery Date: 10/23/2019 36°51'05.25" N 81°25'39.39" W elev 0 ft eye alt 16838 ft



All Providers Reporting Service

Census block ID: 511730304002035

Number of Fixed Residential Broadband Providers



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Smyth Technology Group Inc.	Fixed Wireless	50	50
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

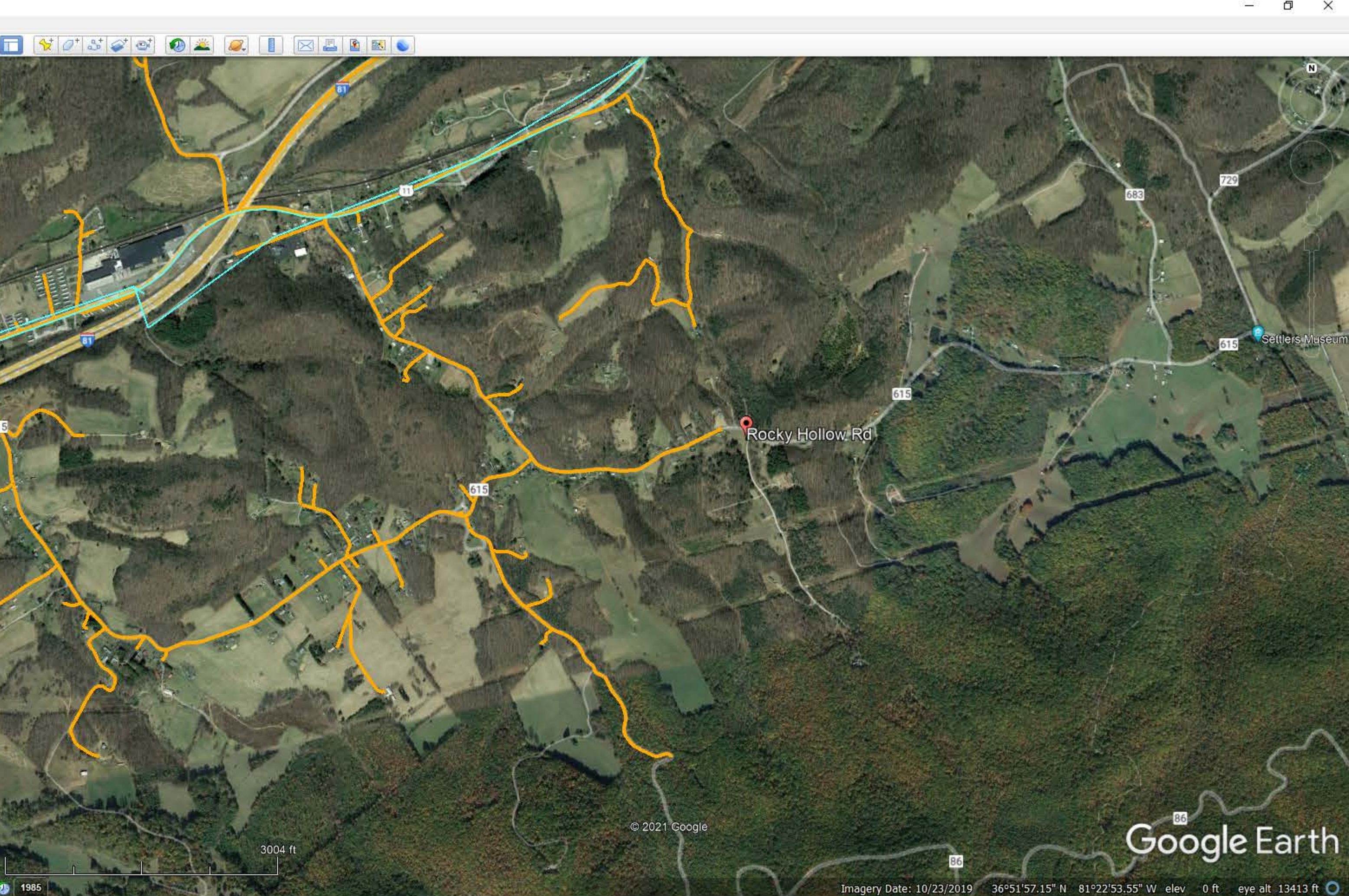
Search: Rocky Hollow Road, Atkins, VA

Places:

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers:

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Location Summary | Fixed Broadband

Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.87974, -81.385736

Mapbox © Mapbox © OpenStreetMap Improve this map

All Providers Reporting Service

Census block ID: 511730304001020

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
Smyth Technology Group Inc.	Fixed Wireless	50	50
Hughes Network Systems, LLC	Satellite	25	3
CenturyLink, Inc.	ADSL	10	1
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
VSAT Systems, LLC	Satellite	2	1.3

Search Groseclose, VA

Get Directions History

Places

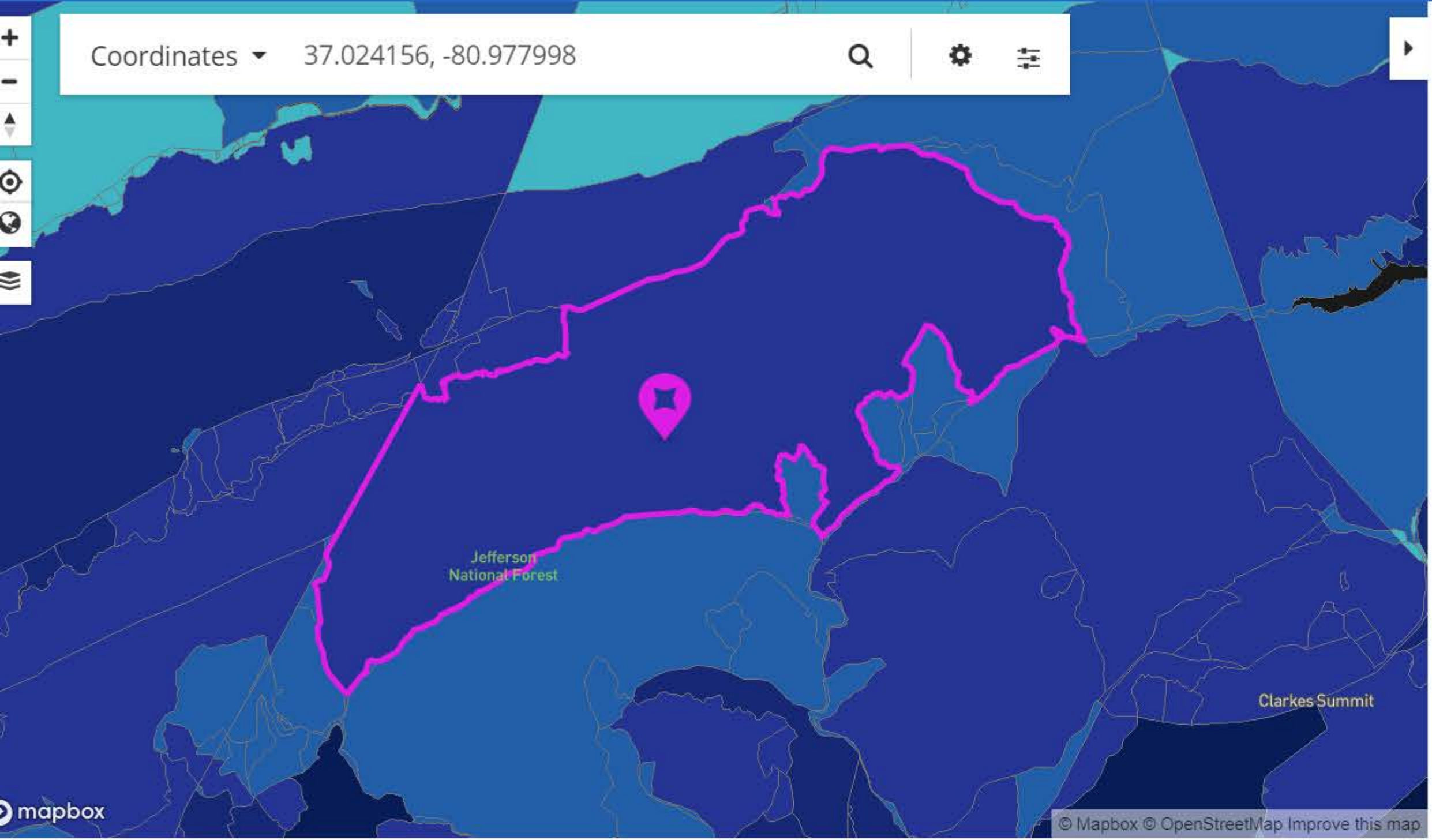
- My Places
- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 10/23/2019 36°52'52.33" N 81°22'56.84" W elev 0 ft eye alt 9767 ft



All Providers Reporting Service

Census block ID: 511970501004009

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Point Broadband Fiber Holding, LLC	Fiber	1000	1000
ViaSat, Inc.	Satellite	100	3
WVA.net Inc.	Fixed Wireless	50	3
Hughes Network Systems, LLC	Satellite	25	3
Virginia Everywhere, LLC	Fixed Wireless	15	3
CenturyLink, Inc.	ADSL	10	1
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Search ex: Pizza near Clayville, NY

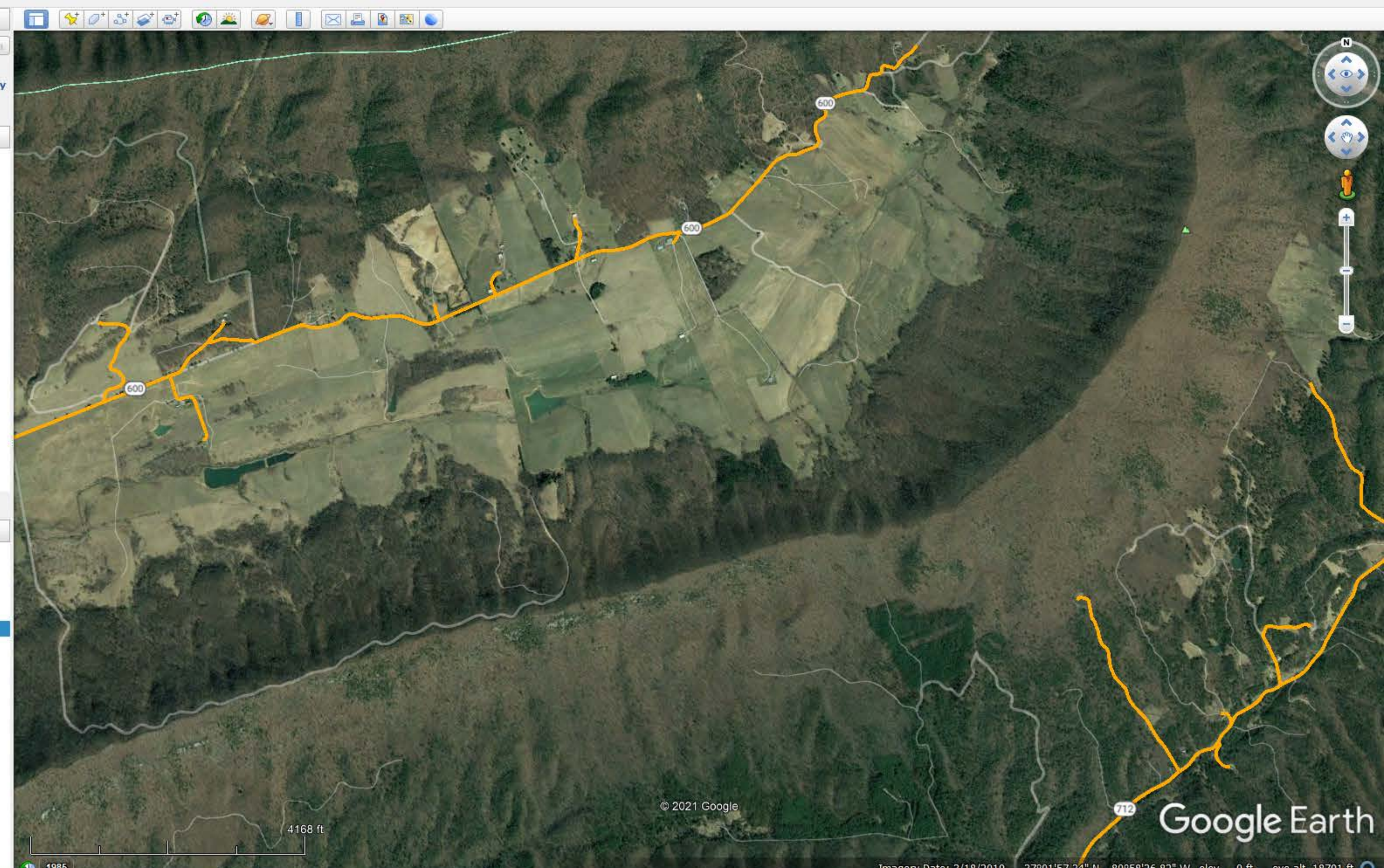
Get Directions History

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Location Summary | Fixed Broadband

Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.995342, -81.1209

All Providers Reporting Service

Census block ID: 511970502002013

Number of Fixed Residential Broadband Providers

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
CenturyLink, Inc.	ADSL	60	5
WVA.net Inc.	Fixed Wireless	50	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	10	2
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064

Google Earth Pro

Search: Kegleys, VA

My Places

- Sightseeing Tour
- ~GEB2D8.kmz
- Cable Layers
- VA CAFII
- VA CAFII
- TN CAFII
- TCCA Boissevain_Pocahontas 08 30 20.kmz
- Cleveland Grant Area.kmz
- TNECD HAWKINS COUNTY PROJECT AREA.kmz
- Mt Rogers Area.kmz
- Potential Mount Rogers VATI 2021-22
- Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
- VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth

Imagery Date: 3/18/2019

9:58 AM 9/12/2021

Location Summary | Fixed Broadband

Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

Coordinates 36.999836, -81.184556

All Providers Reporting Service

Census block ID: 511970502002008

Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
WVVA.net Inc.	Fixed Wireless	50	3
CenturyLink, Inc.	ADSL	40	3
Hughes Network Systems, LLC	Satellite	25	3
MGW Communications, Inc.	Fixed Wireless	10	2
VSAT Systems, LLC	Satellite	2	1.3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
Centurylink, Inc.	ADSL	0.5	0.25

Google Earth Pro

Search: Kegleys, VA

Places:

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISED_08_11_20.kmz
 - Temporary Places
 - VATI Mt Rogers 08 23 21.kmz
- Layers
 - Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth

Imagery Date: 3/18/2019 36°59'58.68" N 81°10'38.61" W elev 0 ft eye alt 26551 ft

9:59 AM 9/12/2021

Location Summary | Fixed Broadband

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Coordinates 37.023143, -81.200823

All Providers Reporting Service
 Census block ID: 511970502002005

Number of Fixed Residential Broadband Providers
 0 1 2 3 4 6 12 or more

Broadband
 Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
 Speed ≥ 25/3 Mbps
 Date June 2020 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	100	3
CenturyLink, Inc.	ADSL	60	5
Hughes Network Systems, LLC	Satellite	25	3
Telephone and Data Systems, Inc.	Fixed Wireless	2	0.064
VSAT Systems, LLC	Satellite	2	1.3

Google Earth Pro

Search: Aspen Lane, Wytheville, VA
 ex: Pizza near Clayville, NY

Get Directions History

Places

- My Places
 - Sightseeing Tour
 - ~GEB2D8.kmz
 - Cable Layers
 - VA CAFII
 - VA CAFII
 - TN CAFII
 - TCCA Boissevain_Pocahontas 08 30 20.kmz
 - Cleveland Grant Area.kmz
 - TNECD HAWKINS COUNTY PROJECT AREA.kmz
 - Mt Rogers Area.kmz
 - Potential Mount Rogers VATI 2021-22
 - Russell_Co_Sec1_Fiber_REVISIED_08_11_20.kmz
- Temporary Places
 - VATI Mt Rogers 08 23 21.kmz

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Google Earth
 Imagery Date: 3/18/2019 37°01'05.29" N 81°11'50.48" W elev 0 ft eye alt 25123 ft



Check Email | My Account | Residential Business
User ID: [input] Password: [input] Login
Register Account Recovery

SHOP EXPLORE SUPPORT

- History
- Shentel Connections
- Contact Information
- Contact-Us
- Terms and Conditions

Home > Shentel > Email Form



Shentel Serv [dropdown] *

Category [dropdown] *

We're sorry, but the zip code you have entered is not in our service area. Contact us for more information.

Enter your question here with as much detail as possible.

[input]

ers.

Ok

Your Information

First Name [input] *

Last Name [input] *

Email Address [input] *

Phone Number [input] *

ZIP Code [input] *

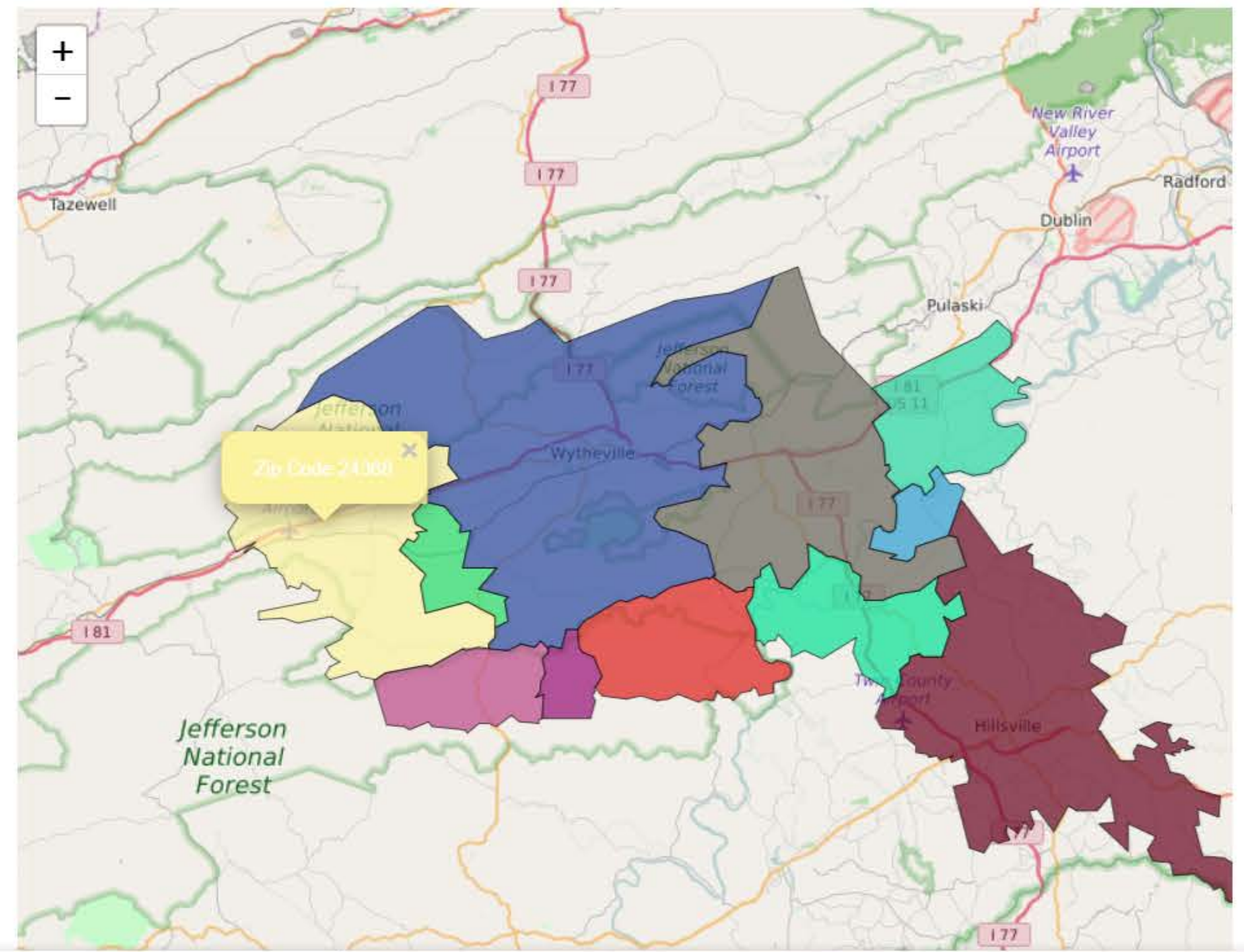
Account Information

Existing Customer? Yes No *



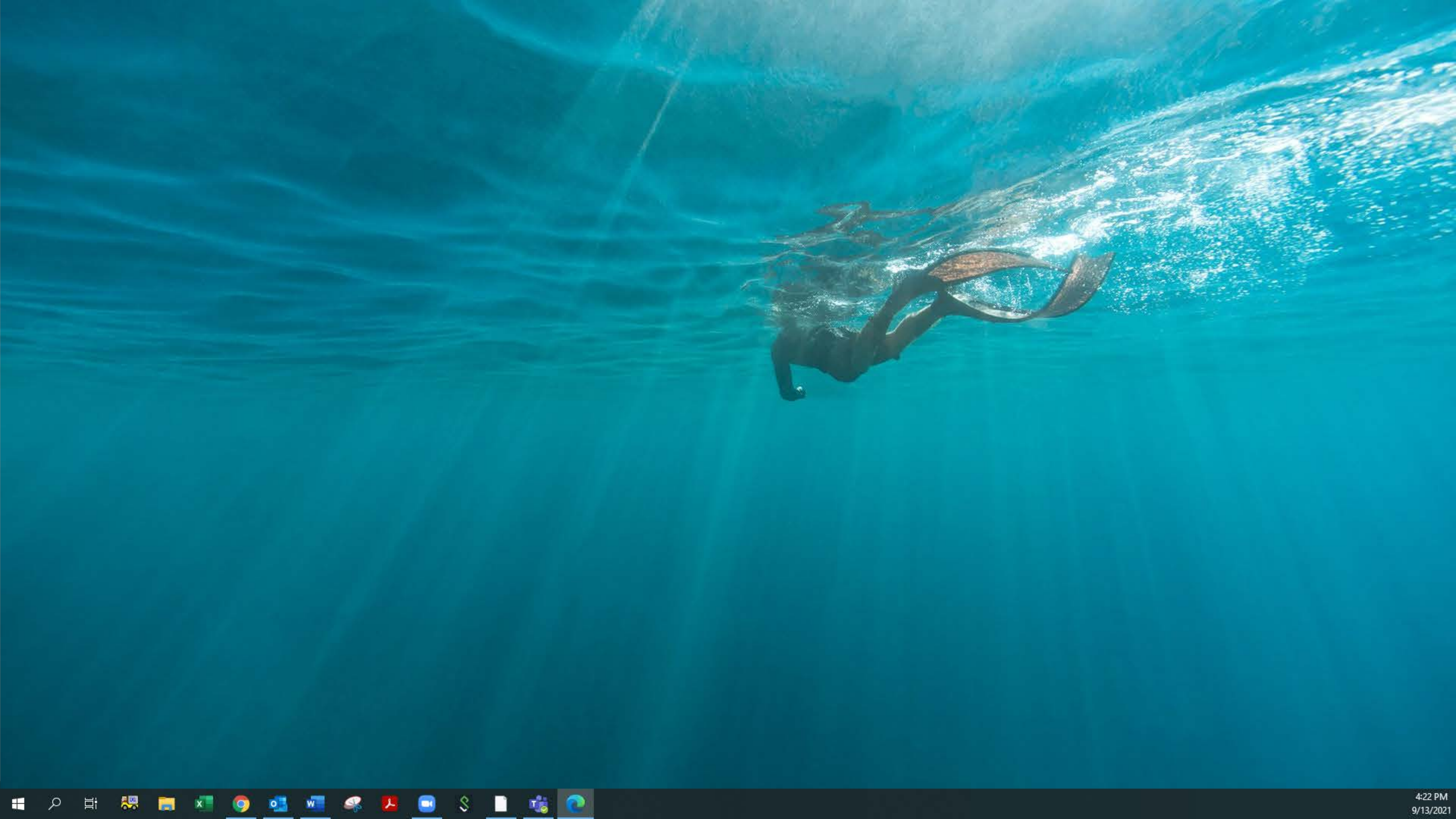
Liver Health Formula

Map of Zipcodes in Wythe County



Wythe County Profile

County Name	Wythe County
FIPS Code	51197
Population	29235
Unemployment Rate	4.1%
Time Zone:	Eastern Daylight Time





Check Email | My Account | Residential Business

User ID: [input] Password: [input] Login You're in 24368 Change?

Register Account Recovery

Please click here to see the latest updates regarding COVID-19.

SHOP

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SUPPORT



Get a \$50 discount!

You may be eligible for up to \$50 discount on your Internet bill. Combine that with our current promotion to get 150 Mbps FREE for 3 months. Restrictions apply.

Learn More

We're sorry, the product you selected is not available in your area. [Ok]



Bundles Shentel has a bundle that's right for your family.

SHOP NOW



PowerHouse Internet Get the speed you want that fits your needs.

SHOP NOW



Home Phone Enhanced fiber optic network brings you true call clarity.

SHOP NOW



Digital Television Choose from hundreds of channels.

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Shentel Connections

09/02/2021

Shentel Offers Emergency Broadband Benefit to Qualifying Customers

08/24/2021

Shentel Expands its Glo Fiber High-Speed Fiber Optic Network to Frederick County, VA.

07/29/2021

Shenandoah Telecommunications Company Reports Second Quarter 2021 Results

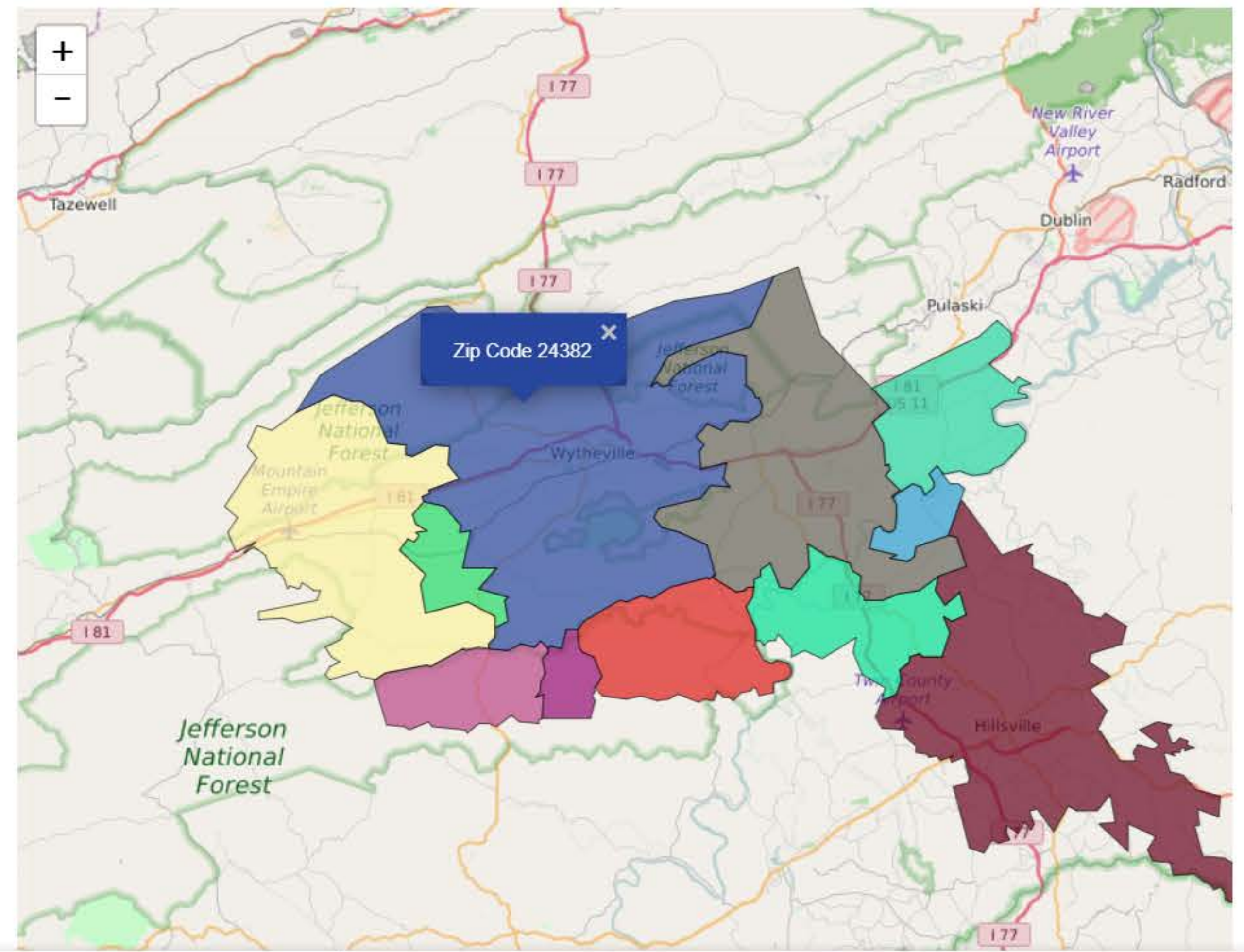
07/15/2021

Shentel Business Provides Internet



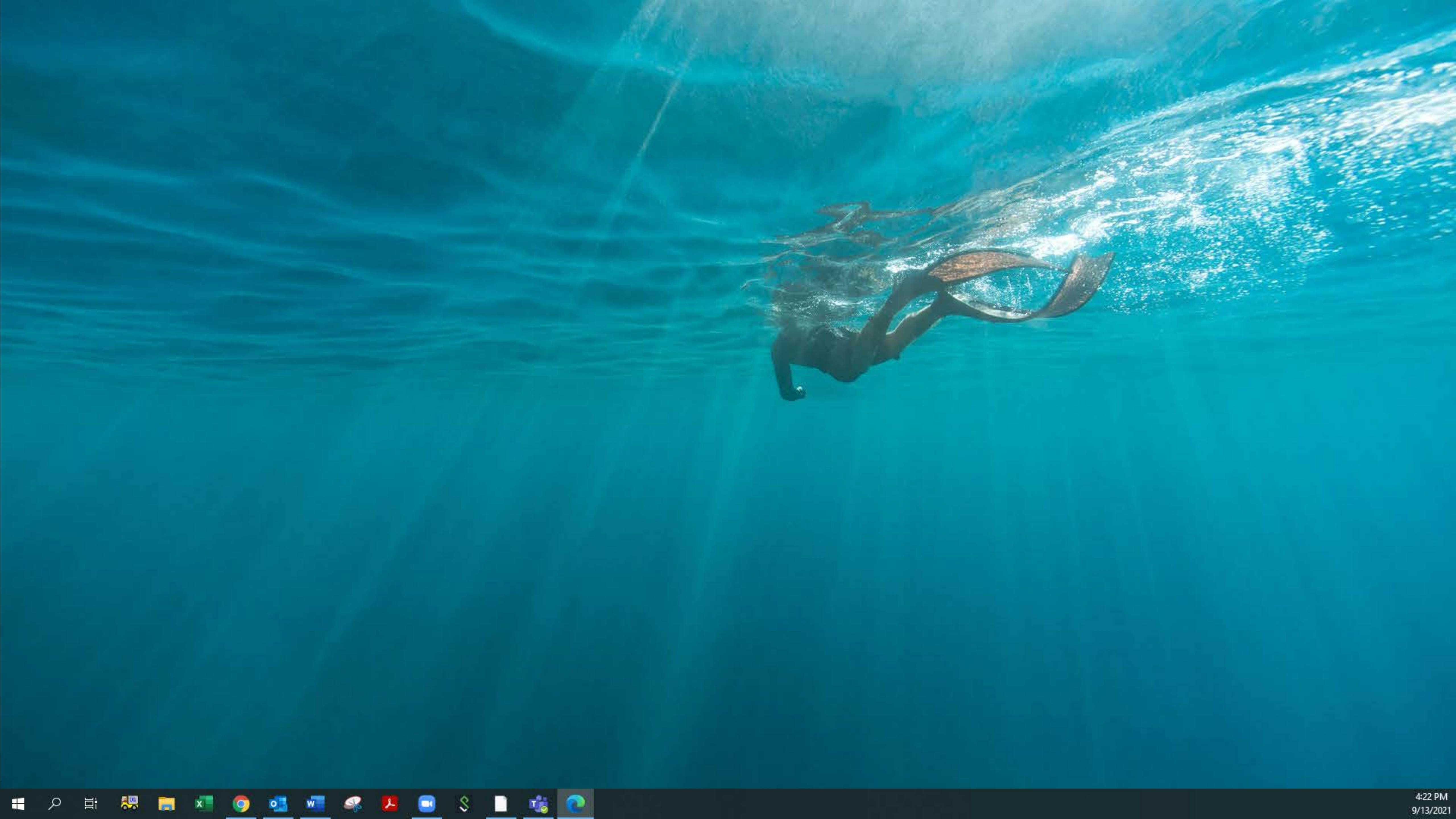
Liver Health Formula

Map of Zipcodes in Wythe County



Wythe County Profile

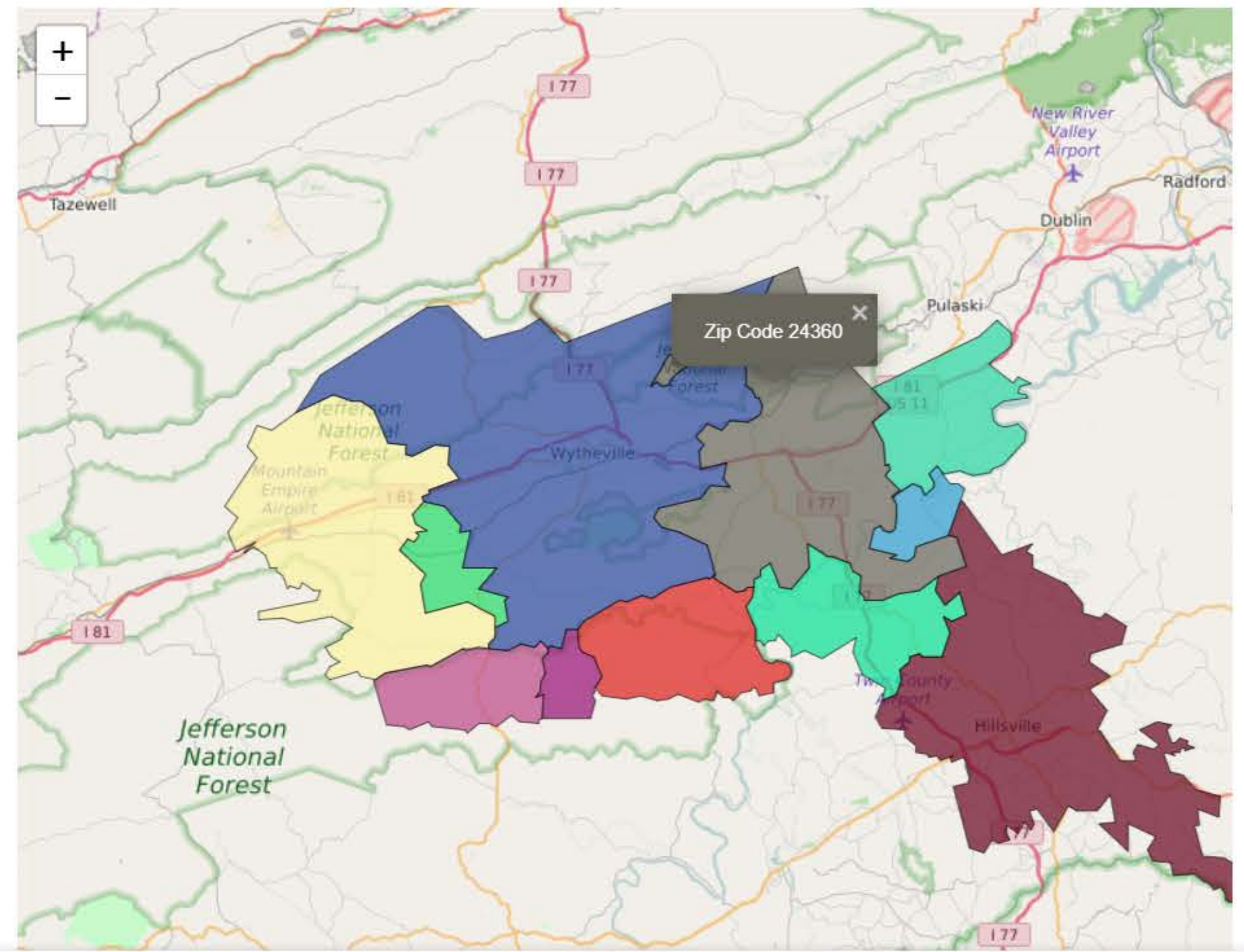
County Name	Wythe County
FIPS Code	51197
Population	29235
Unemployment Rate	4.1%
Time Zone:	Eastern Daylight Time





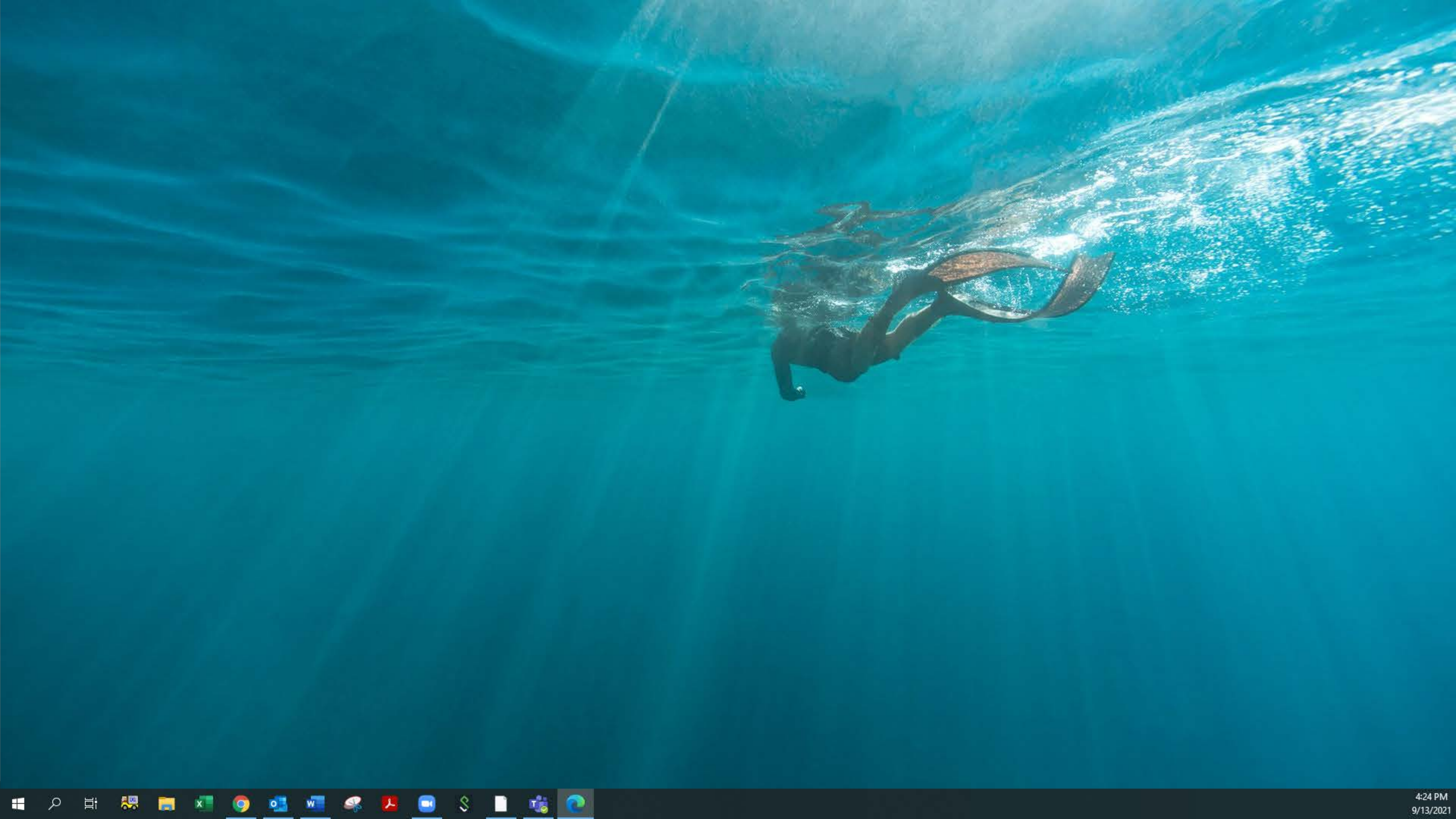
Liver Health Formula

Map of Zipcodes in Wythe County



Wythe County Profile

County Name	Wythe County
FIPS Code	51197
Population	29235
Unemployment Rate	4.1%
Time Zone:	Eastern Daylight Time





Check Email | My Account | Residential | Business

User ID: Password: Login You're in 24368 Change? Register Account Recovery

Please click here to see the latest updates regarding COVID-19.

TiVo	Bundles	Internet	Phone	TV
TiVo gives you all the great features of TV plus streaming services and full recording capabilities.	Triple Play Double Play	1Gbps PowerHouse Internet 300Mbps PowerHouse Internet 150Mbps PowerHouse Internet 50Mbps PowerHouse	Unlimited Local and Long Distance Calling Unlimited Local Calling	Ultimate TV Advanced TV Starter TV HBO Cinemax Showtime & The Movie Channel STARZ FANS Choice
Shop Now				

Enter your zipcode

See what's available in your area

[GO](#)

Im
Nc
Some
area c
for all I

<p>Bundles Shentel has a bundle that's right for your family.</p> <p>SHOP NOW</p>	<p>PowerHouse Internet Get the speed you want that fits your needs.</p> <p>SHOP NOW</p>	<p>Home Phone Enhanced fiber optic network brings you true call clarity.</p> <p>SHOP NOW</p>	<p>Digital Television Choose from hundreds of channels.</p> <p>SHOP NOW</p>
--	--	---	--

Shentel Connections

09/02/2021
Shentel Offers Emergency Broadband Benefit to Qualifying Customers

08/24/2021
Shentel Expands its Glo Fiber High-Speed Fiber Optic Network to Frederick County, VA.

07/29/2021
Shenandoah Telecommunications Company Reports Second Quarter 2021 Results

07/15/2021
Shentel Business to Business Internet



Check Email | My Account | Residential Business
User ID: [] Password: [] Login
Register Account Recovery

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- History
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- Contact Information
- Contact-Us
- Terms and Conditions

Home > Shentel > Email Form



Shentel Serv [] *

Category [] *

Enter your question here with as much detail as possible.

[]

ers.

Ok

Your Information

First Name [] *

Last Name [] *

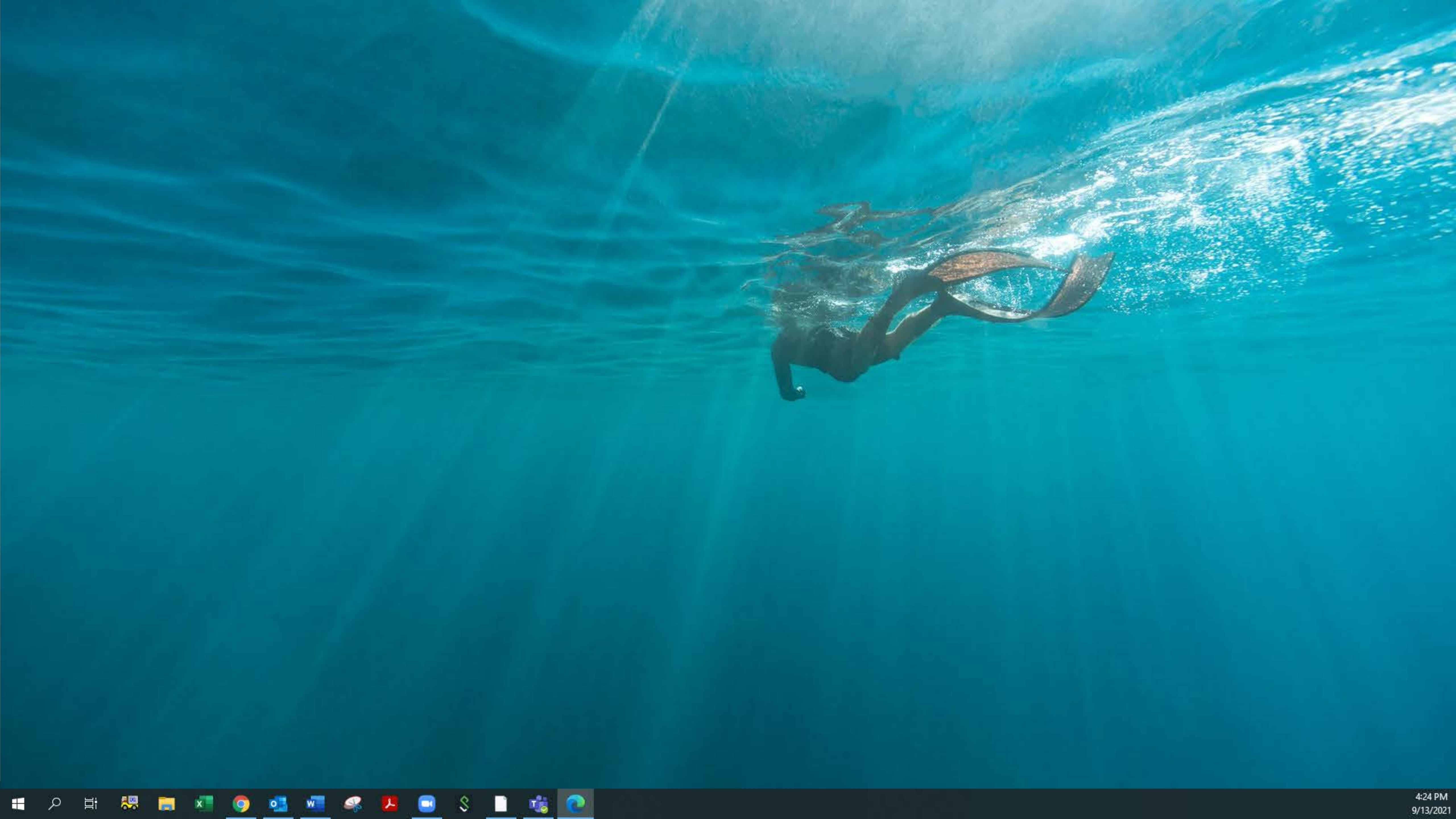
Email Address [] *

Phone Number [] *

ZIP Code [] *

Account Information

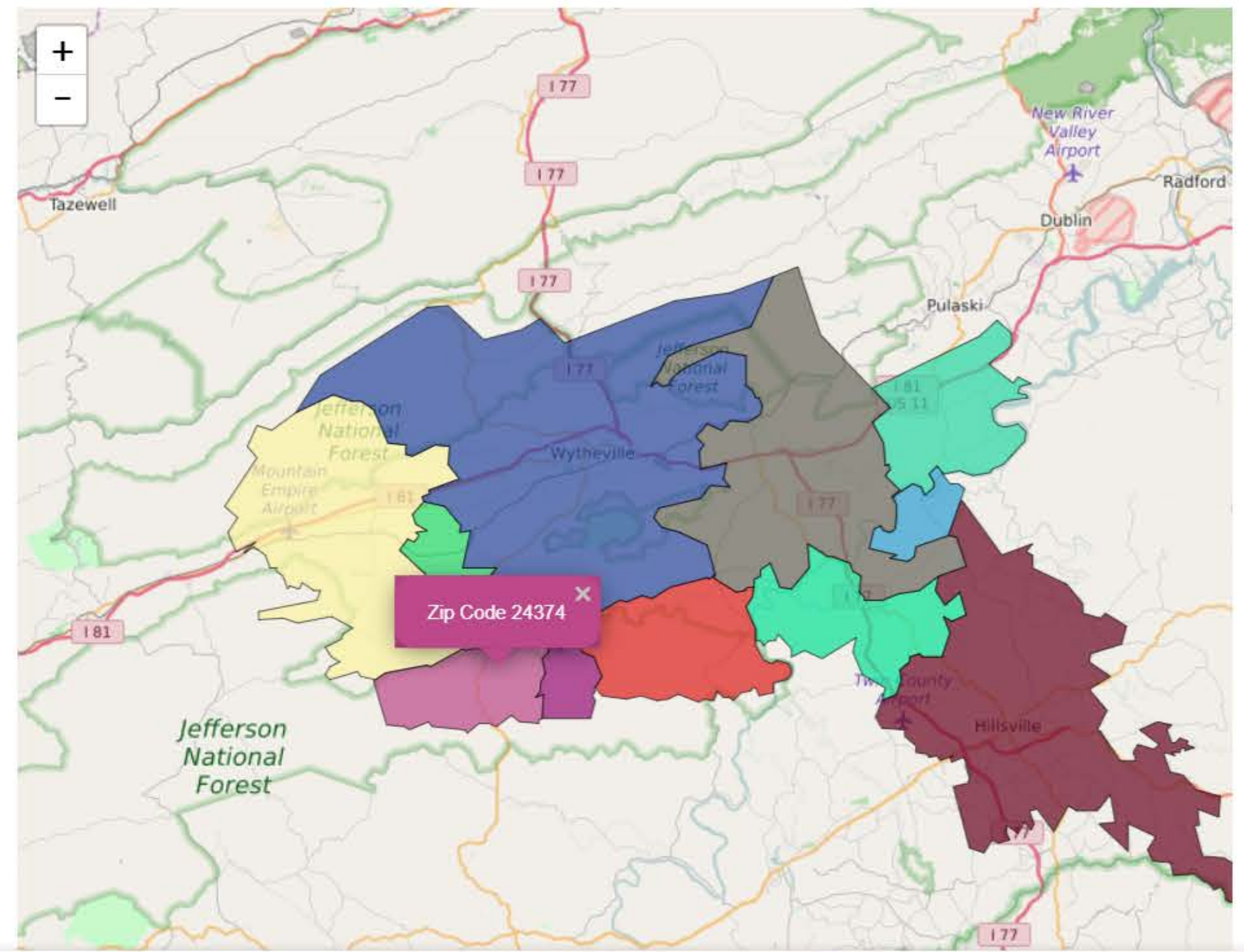
Existing Customer? Yes No *





Liver Health Formula

Map of Zipcodes in Wythe County



Wythe County Profile

County Name	Wythe County
FIPS Code	51197
Population	29235
Unemployment Rate	4.1%
Time Zone:	Eastern Daylight Time





Check Email | My Account | Residential | Business

User ID: Password:

[Register](#) [Account Recovery](#)

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BUNDLES

HIGH SPEED INTERNET

HOME PHONE

DIGITAL TV

Contact Us

Shentel Service *

Category *

Enter your question here with as much detail as possible.

Enter your zipcode ✕

See what's available in your area

Your Information

First Name *

Last Name *

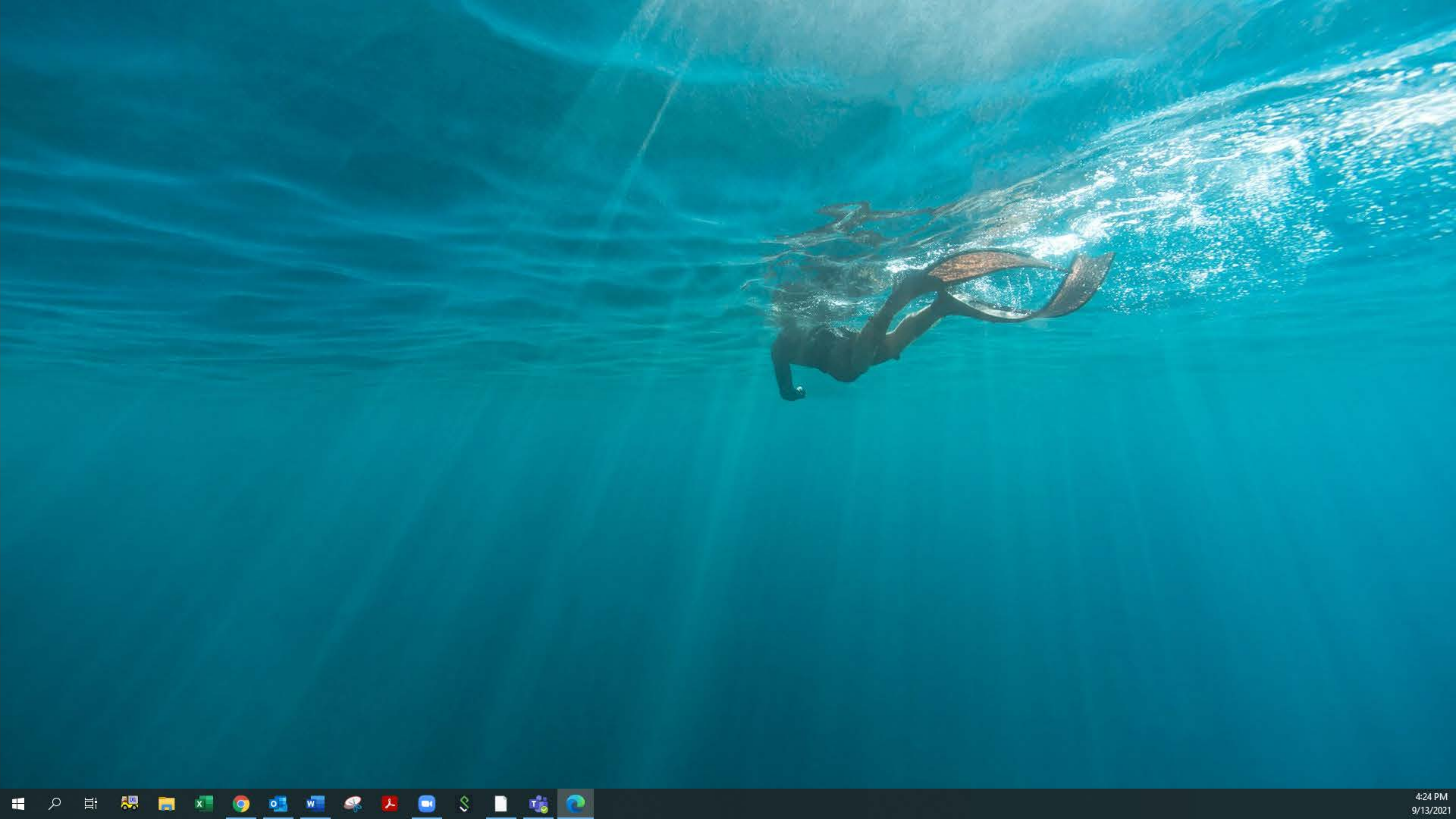
Email Address *

Phone Number

ZIP Code *

Account Information

Existing Customer? Yes No *





Check Email | My Account | Residential Business
User ID: Password: Login
Register Account Recovery

SHOP EXPLORE SUPPORT

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- ▶ Shentel Connections
- ▶ Contact Information
- ▶ Contact-Us
- ▶ Terms and Conditions

Home > Shentel > Email Form



Shentel Service Area: *

Category: *

Enter your question here with as much detail as possible.

Your Information

First Name: *

Last Name: *

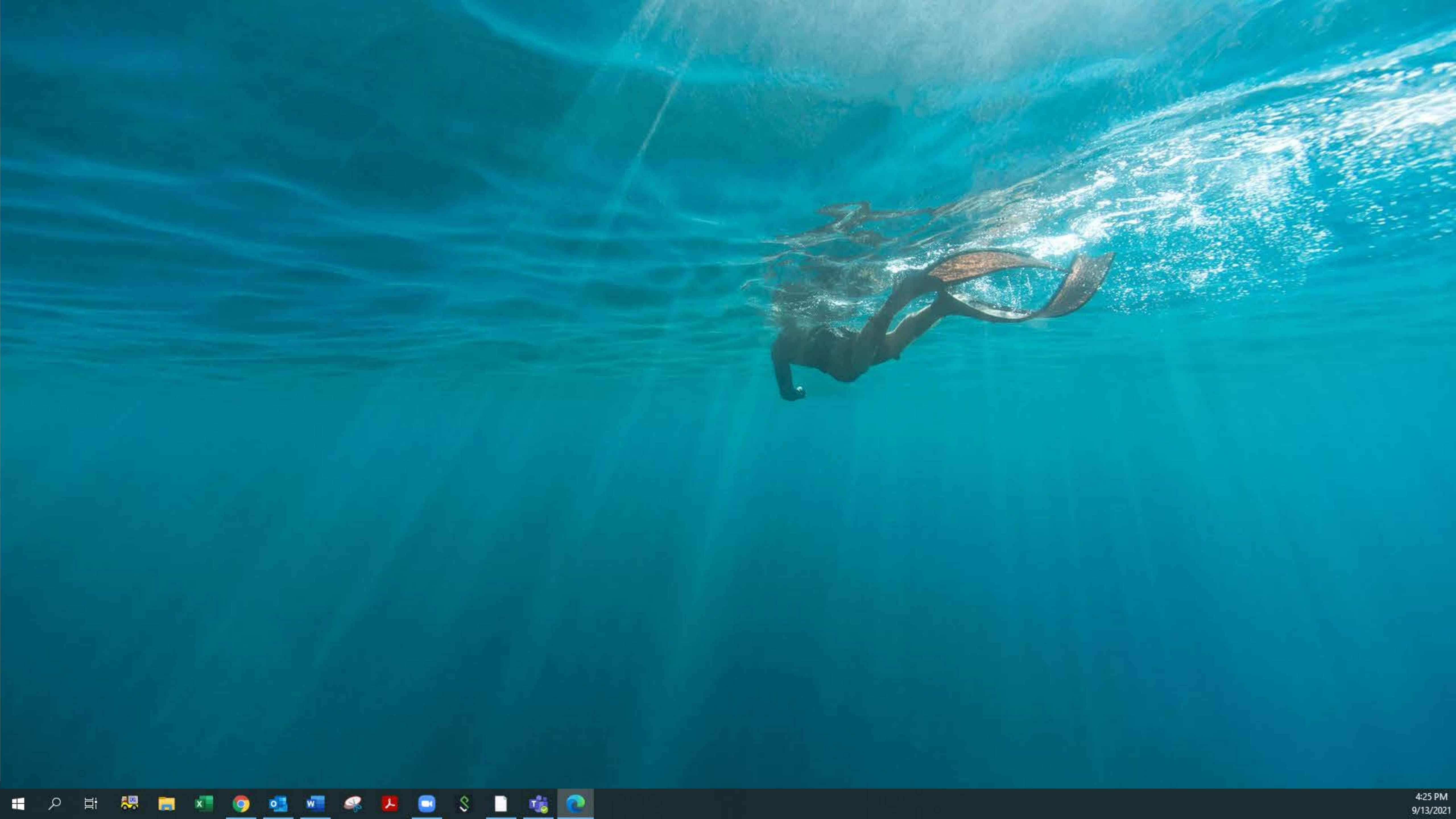
Email Address: *

Phone Number: *

ZIP Code: *

Account Information

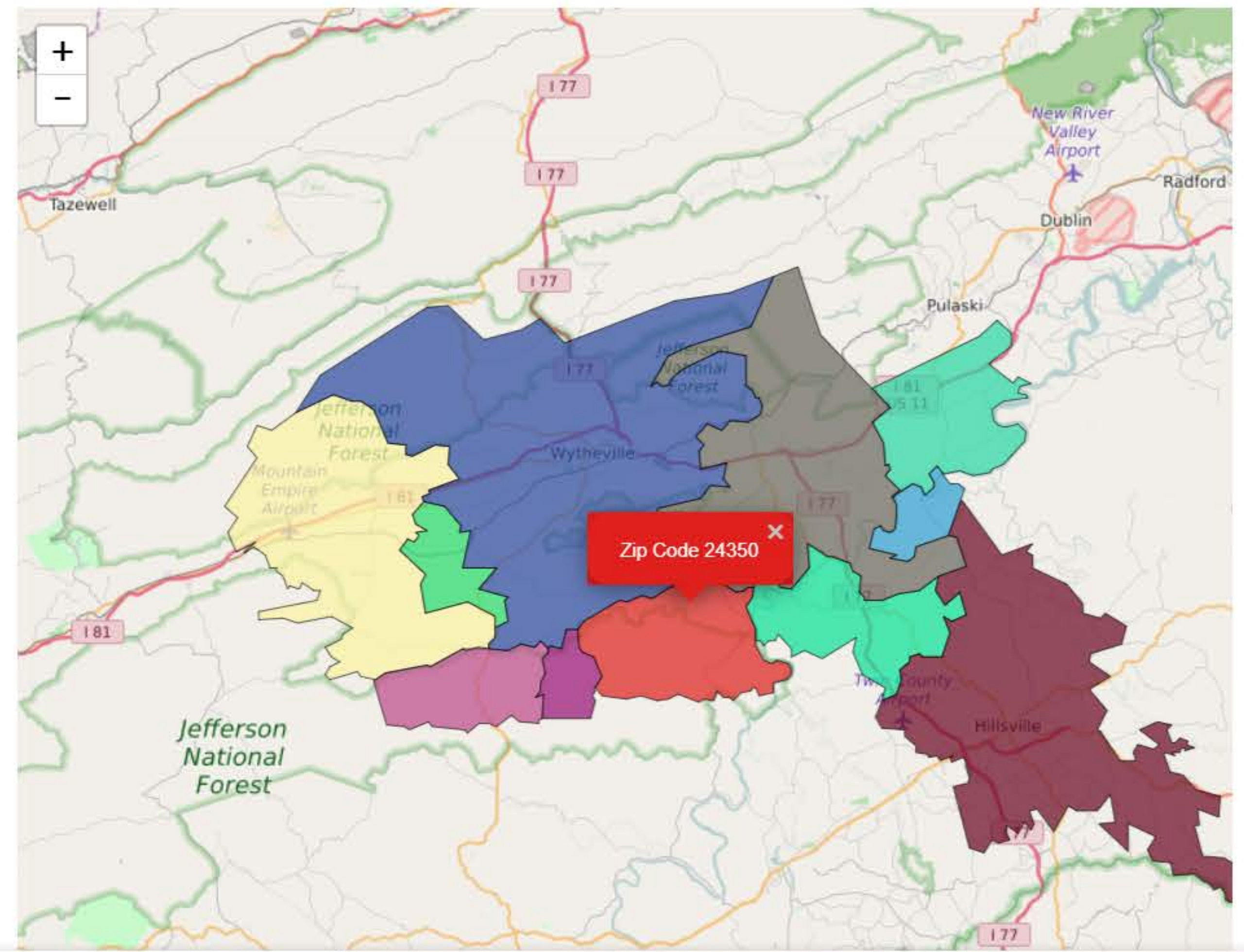
Existing Customer? Yes No *





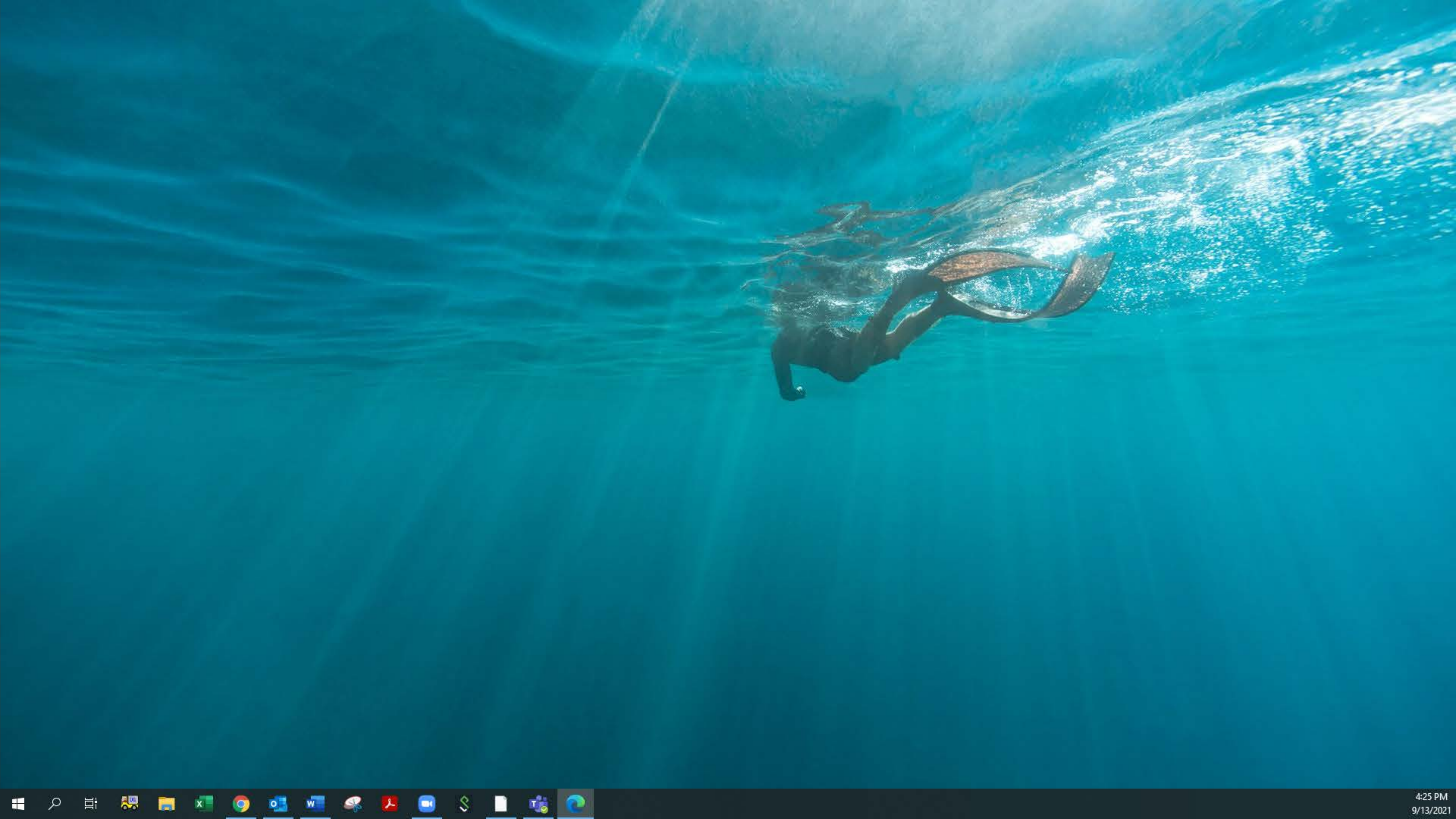
Liver Health Formula

Map of Zipcodes in Wythe County



Wythe County Profile

County Name	Wythe County
FIPS Code	51197
Population	29235
Unemployment Rate	4.1%
Time Zone:	Eastern Daylight Time





Check Email | My Account | Residential | Business

User ID: Password:

[Register](#) [Account Recovery](#)

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- ▶ Contact Information
- ▶ Contact-Us
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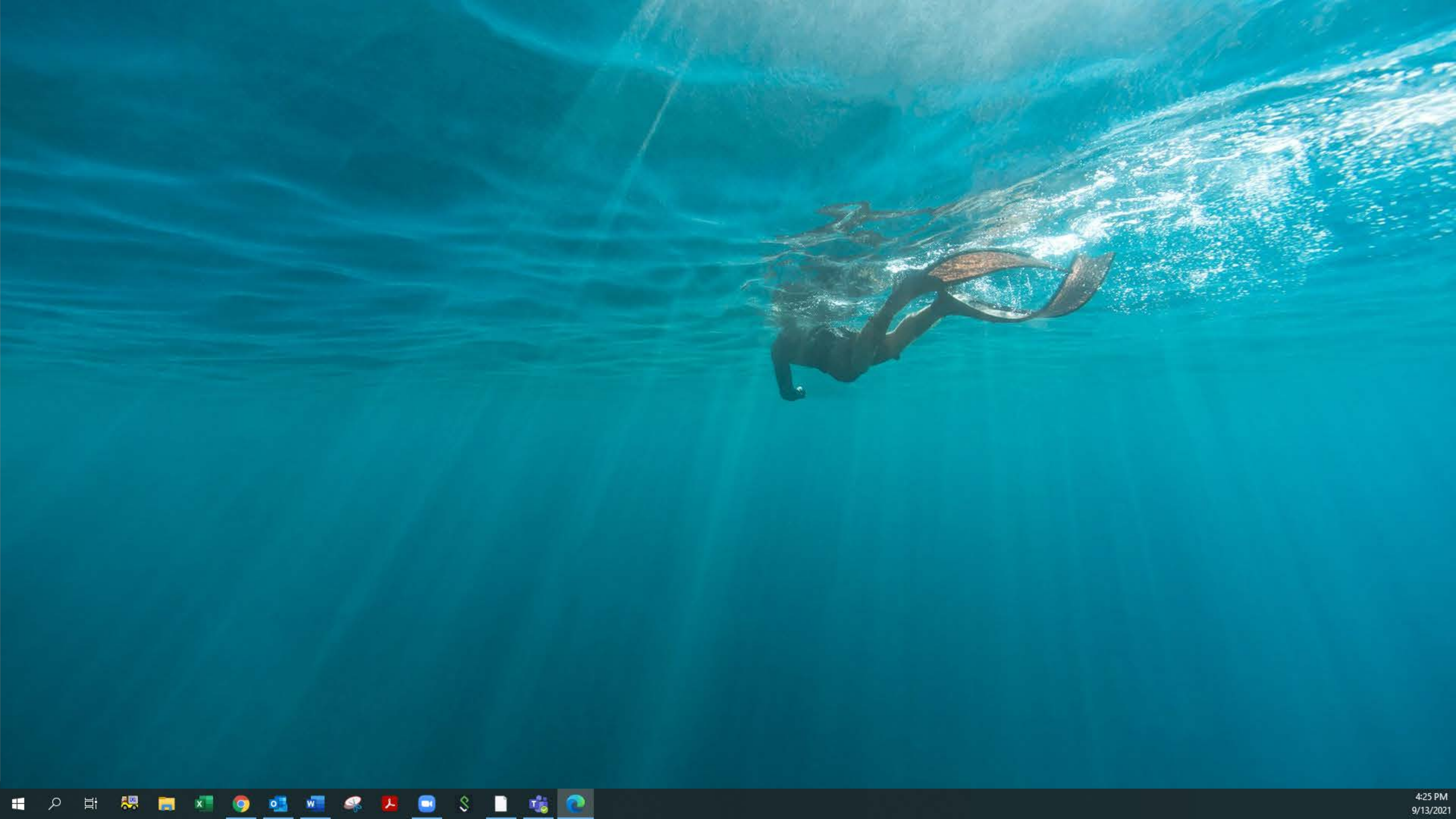
Shentel Serv *
 Category *
 Enter your question here with as much detail as possible.

Your Information

First Name *
 Last Name *
 Email Address *
 Phone Number
 ZIP Code *

Account Information

Existing Customer? Yes No *





Check Email | My Account | Residential **Business**

User ID: Password: **Login**

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- Contact-Us
- Terms and Conditions

BUNDLES **HIGH SPEED INTERNET** **HOME PHONE** **DIGITAL TV**

Contact Us

Shentel Service Area: *

Category: *

Enter your question here with as much detail as possible.

Enter your zipcode ✕

See what's available in your area

GO

Your Information

First Name: *

Last Name: *

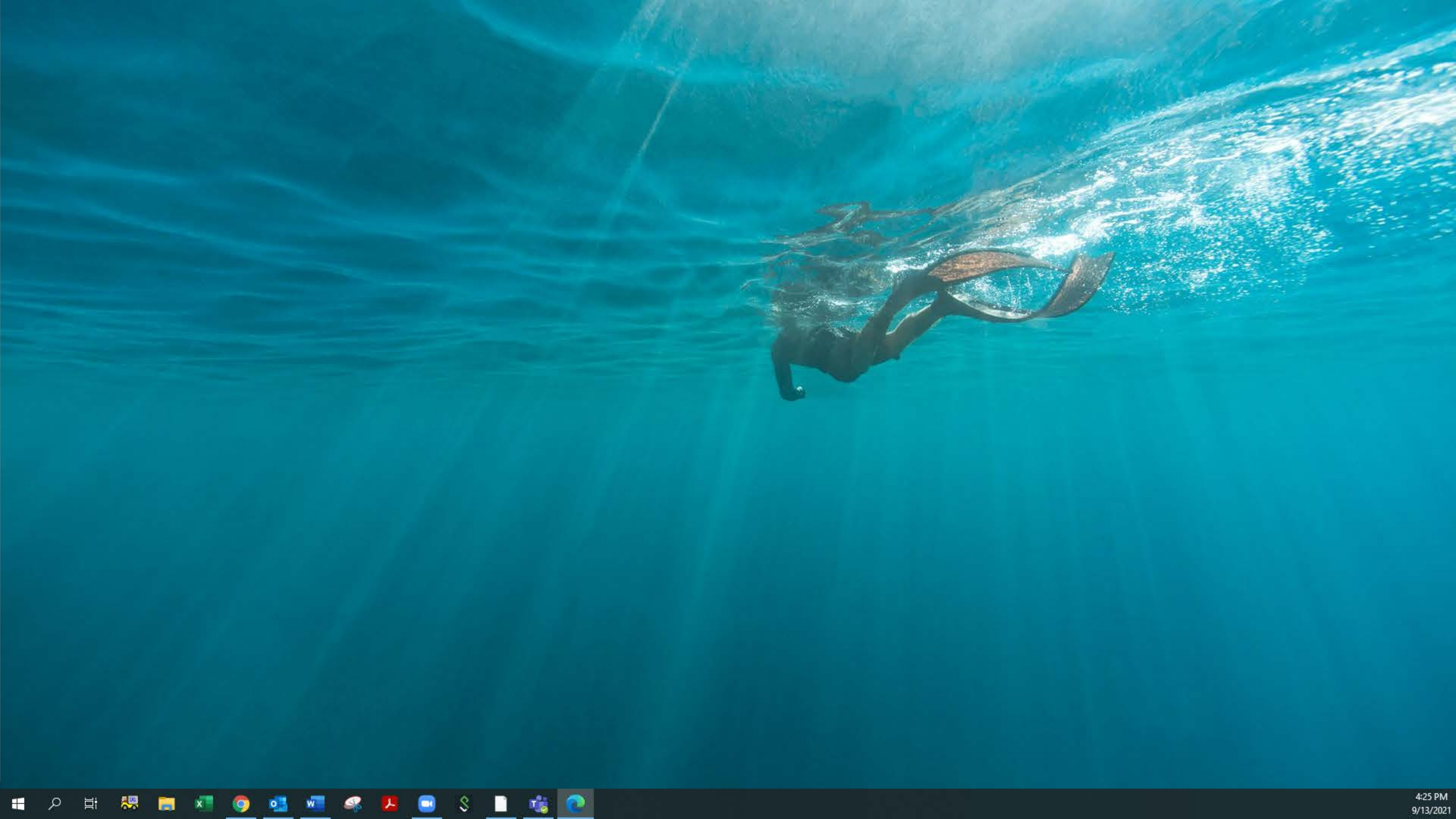
Email Address: *

Phone Number: *

ZIP Code: *

Account Information

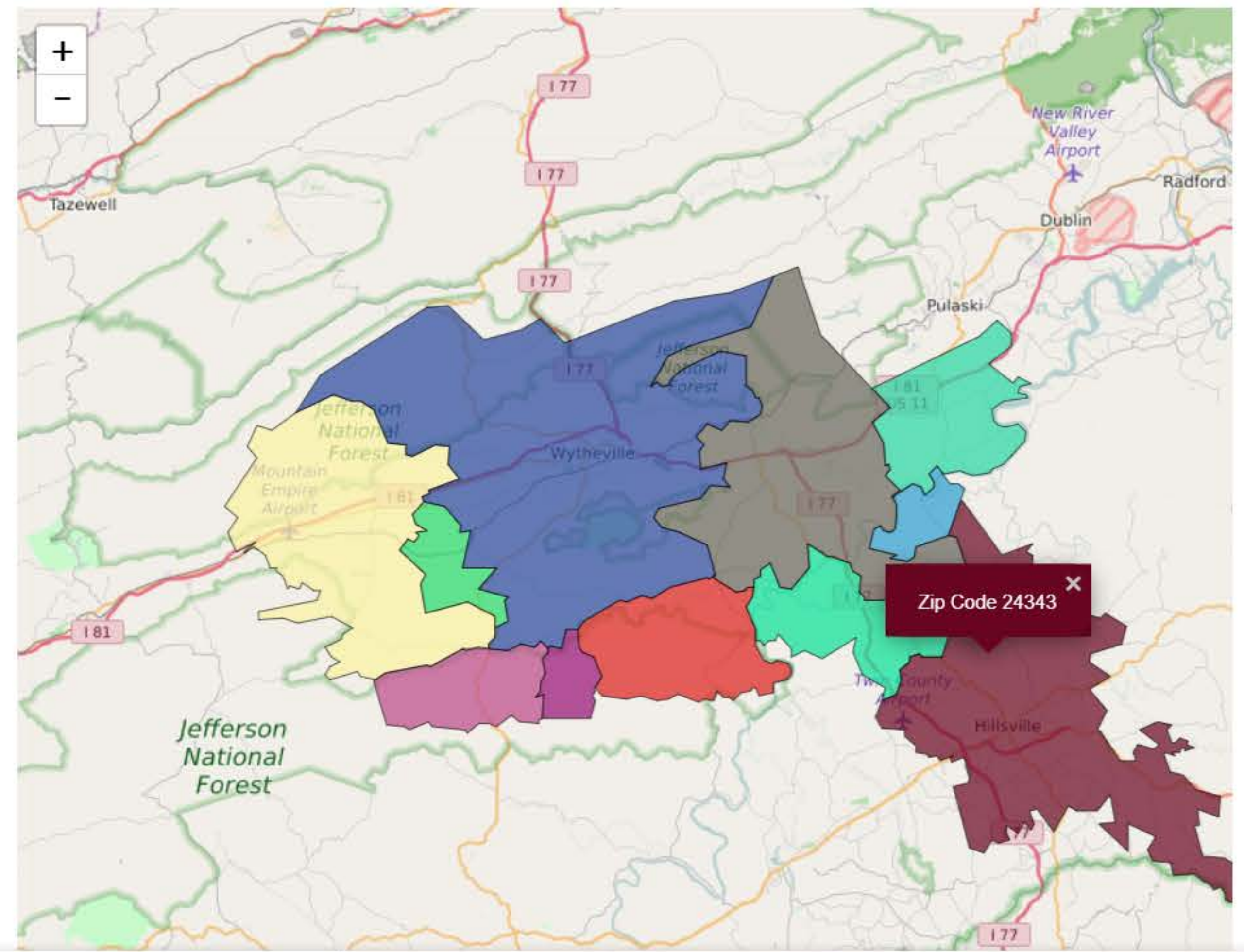
Existing Customer? Yes No *





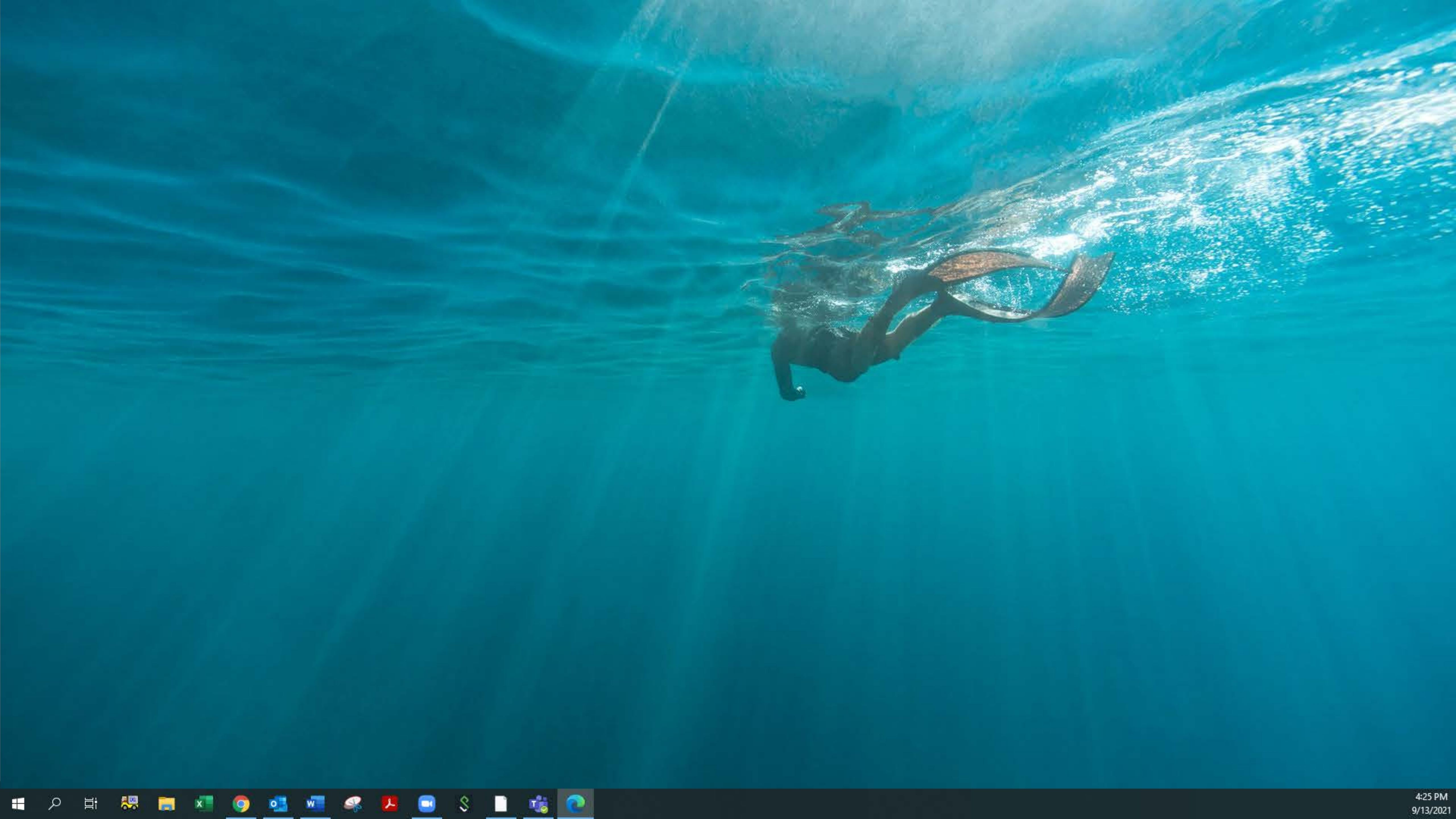
Liver Health Formula

Map of Zipcodes in Wythe County



Wythe County Profile

County Name	Wythe County
FIPS Code	51197
Population	29235
Unemployment Rate	4.1%
Time Zone:	Eastern Daylight Time





Check Email | My Account | Residential **Business**

User ID: Password: **Login**

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BUNDLES

HIGH SPEED INTERNET

HOME PHONE

DIGITAL TV

Contact Us

Shentel Service Area: *

Category: *

Enter your question here with as much detail as possible.

Enter your zipcode ✕

See what's available in your area

GO

Your Information

First Name: *

Last Name: *

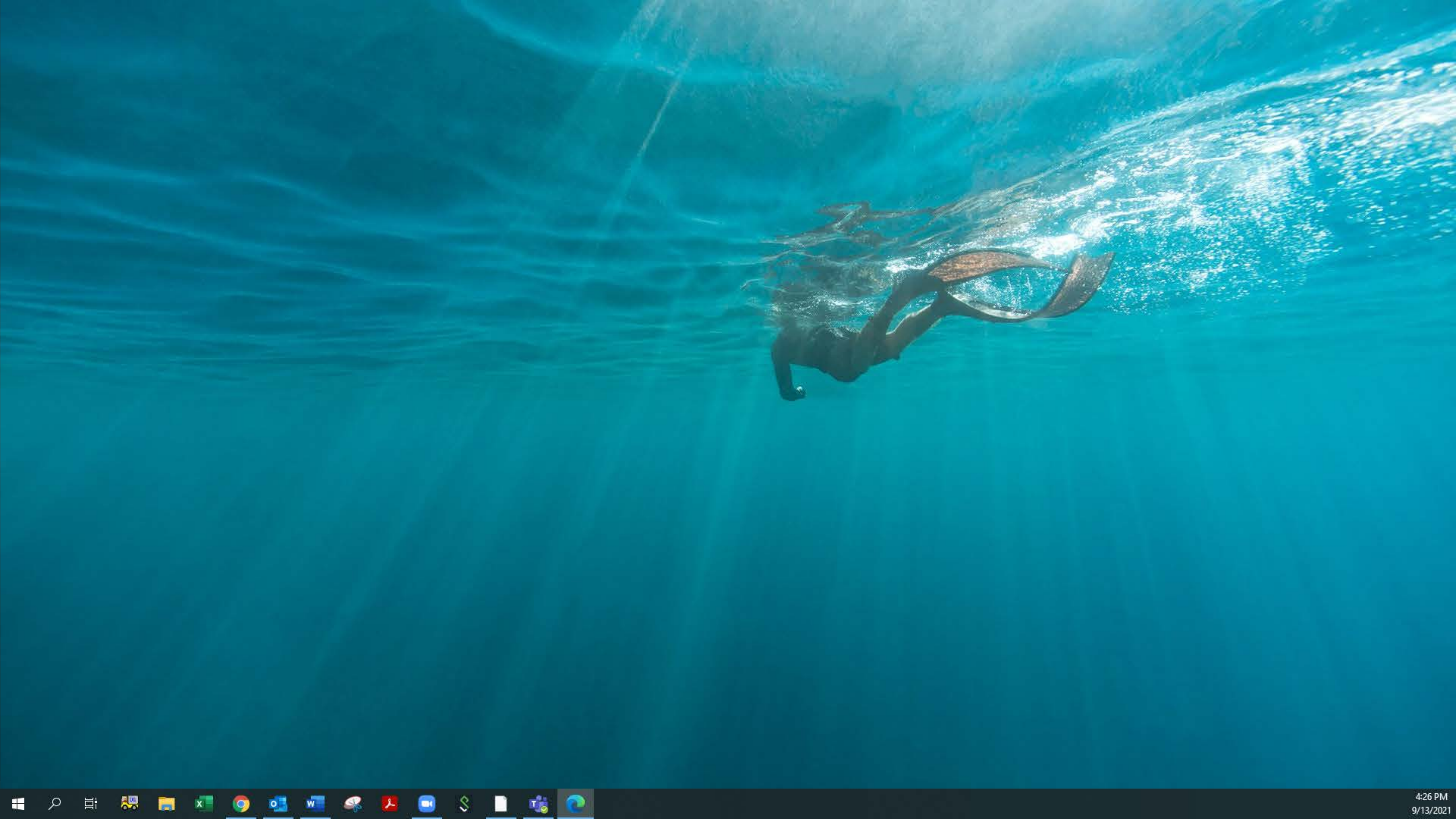
Email Address: *

Phone Number: *

ZIP Code: *

Account Information

Existing Customer? Yes No *





Check Email | My Account | Residential | **Business**

User ID: Password: **Login**

Register Account Recovery

SHOP ▾ **EXPLORE** ▾ **SUPPORT**

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- ▶ Shentel Connections
- ▶ Contact Information
- ▶ Contact-Us
- ▶ Terms and Conditions

Home > Shentel > Email Form



Shentel Serv *
 Category *
 Enter your q here with as possible.
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 *
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 *
 *

Your Information

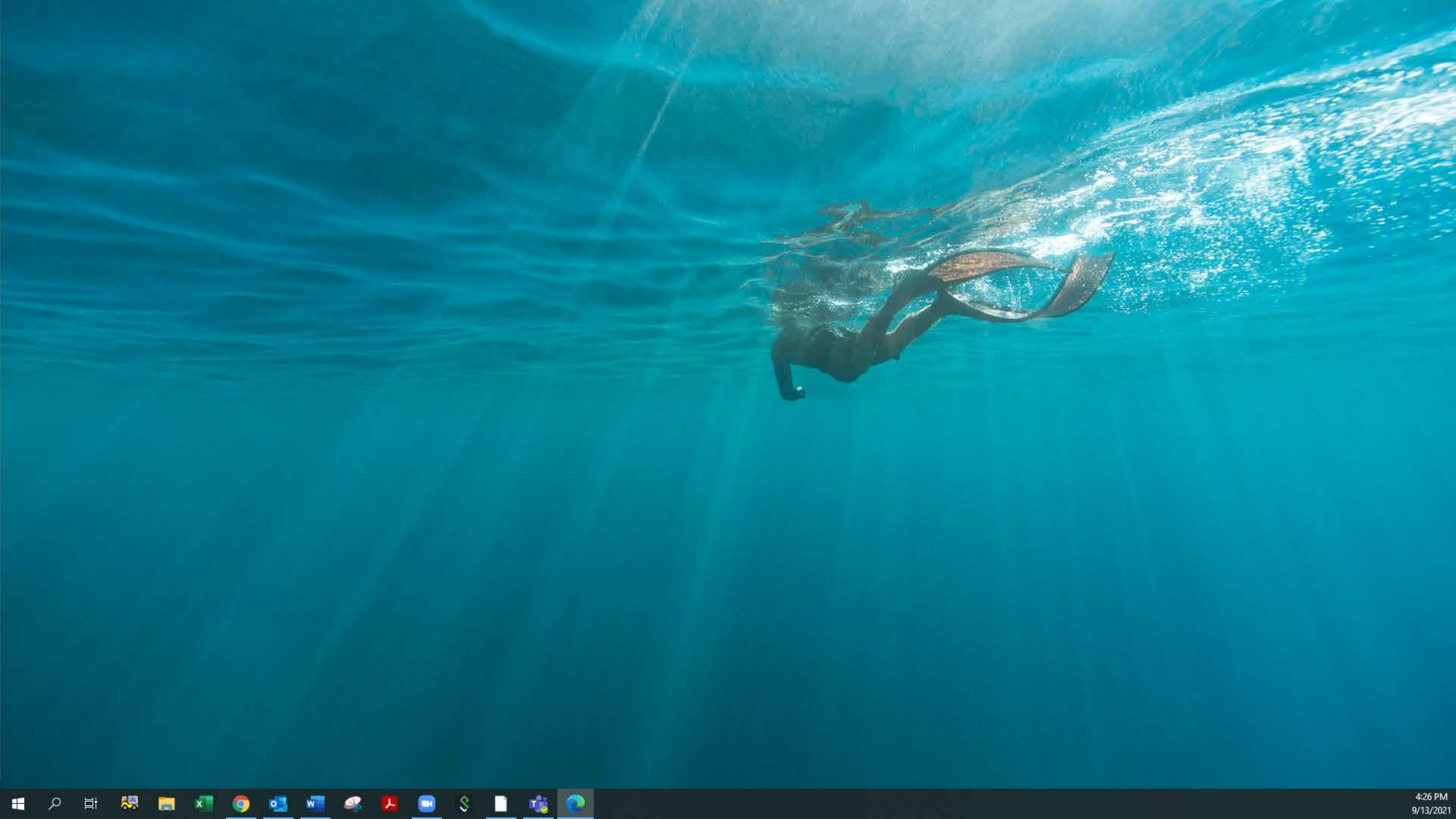
First Name *
 Last Name *
 Email Address *
 Phone Number *
 ZIP Code *

Account Information

Existing Customer? Yes No *

We're sorry, but the zip code you have entered is not in our service area. Contact us for more information.

Ok





Check Email | My Account | Residential | Business

User ID: Password:

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- ▶ Shentel Connections
- ▶ Contact Information
- ▶ Contact-Us
- ▶ Terms and Conditions

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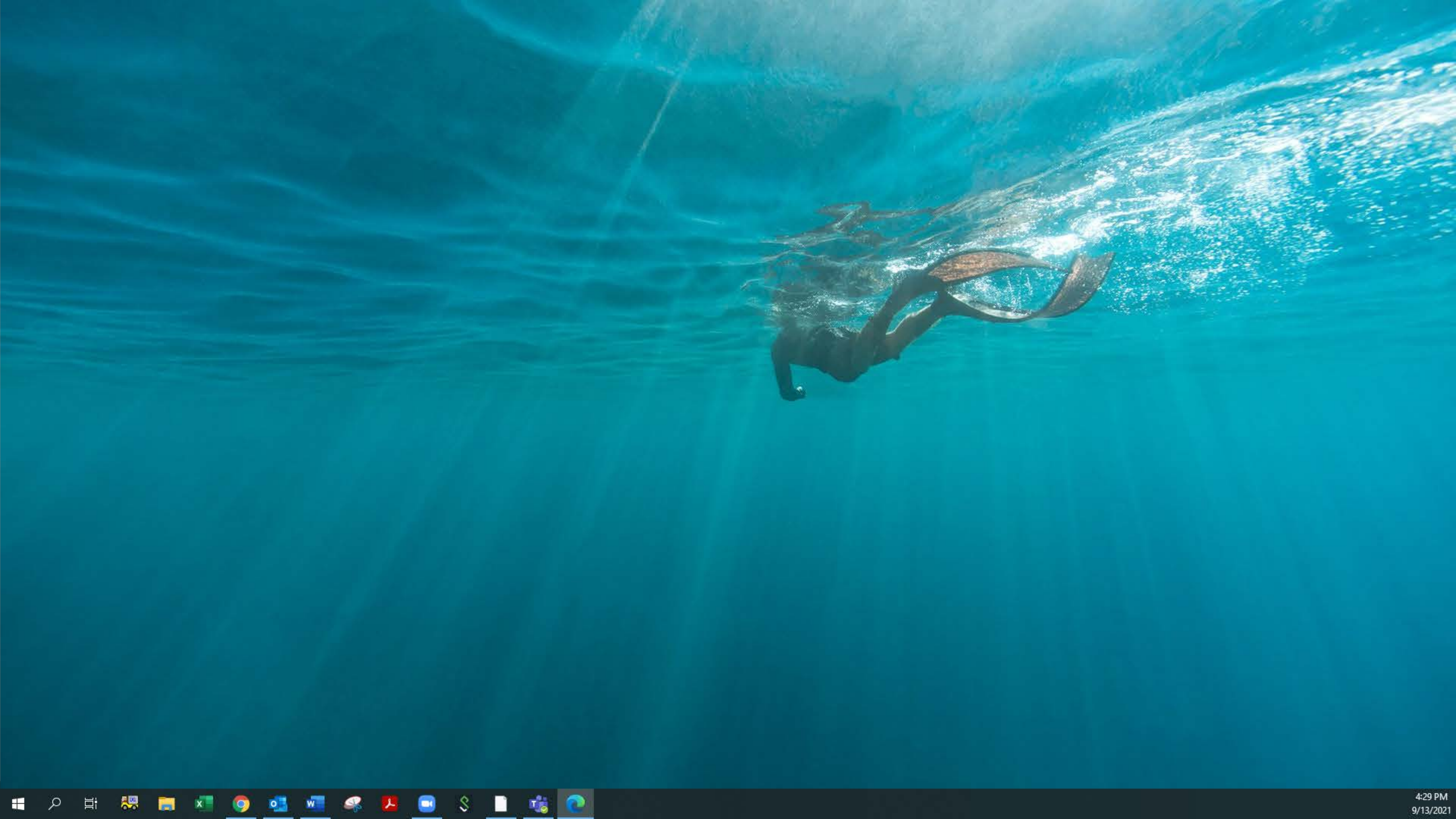
Shentel Serv *
 Category *
 Enter your question here with as much detail as possible.

Your Information

First Name *
 Last Name *
 Email Address *
 Phone Number
 ZIP Code *

Account Information

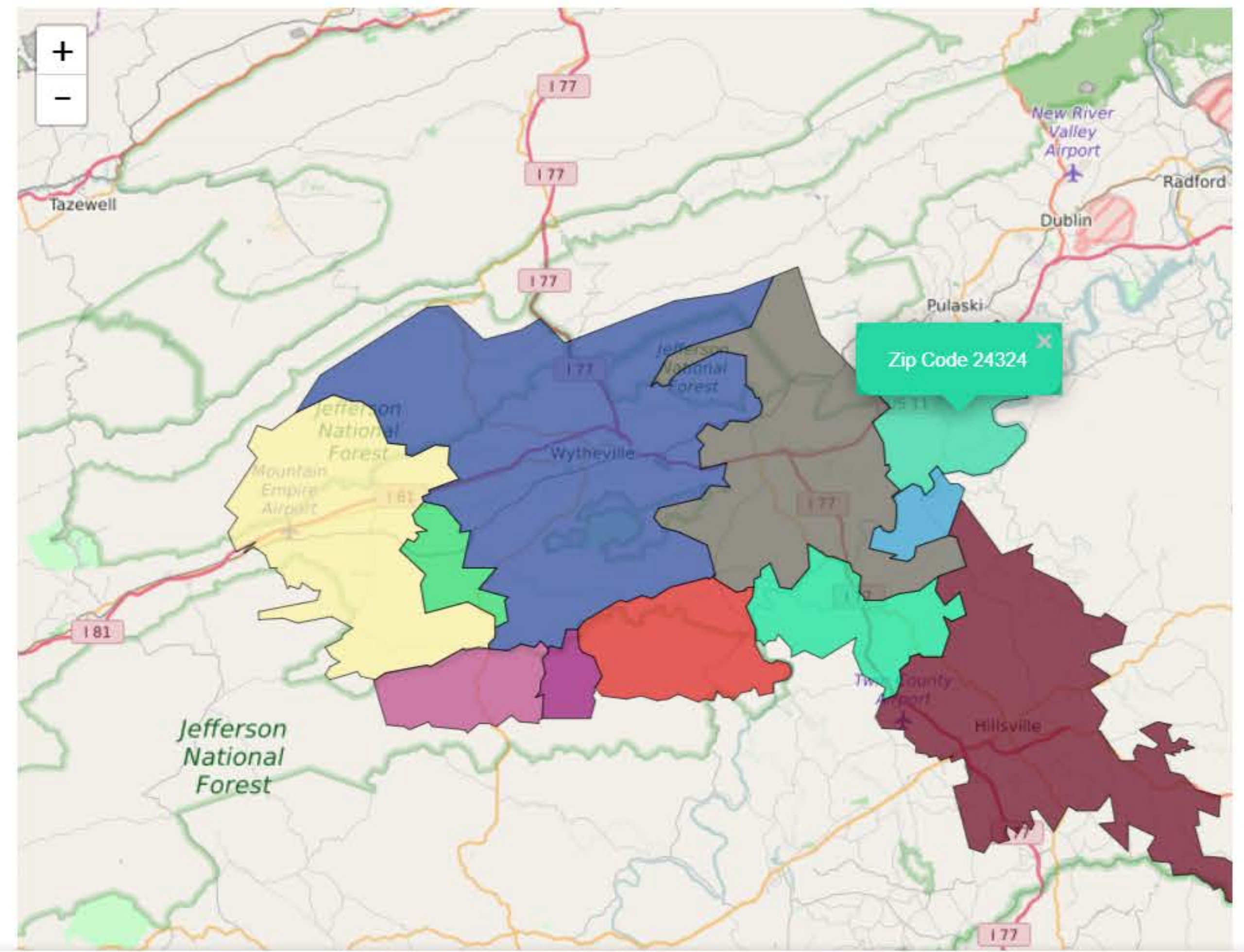
Existing Customer? Yes No *





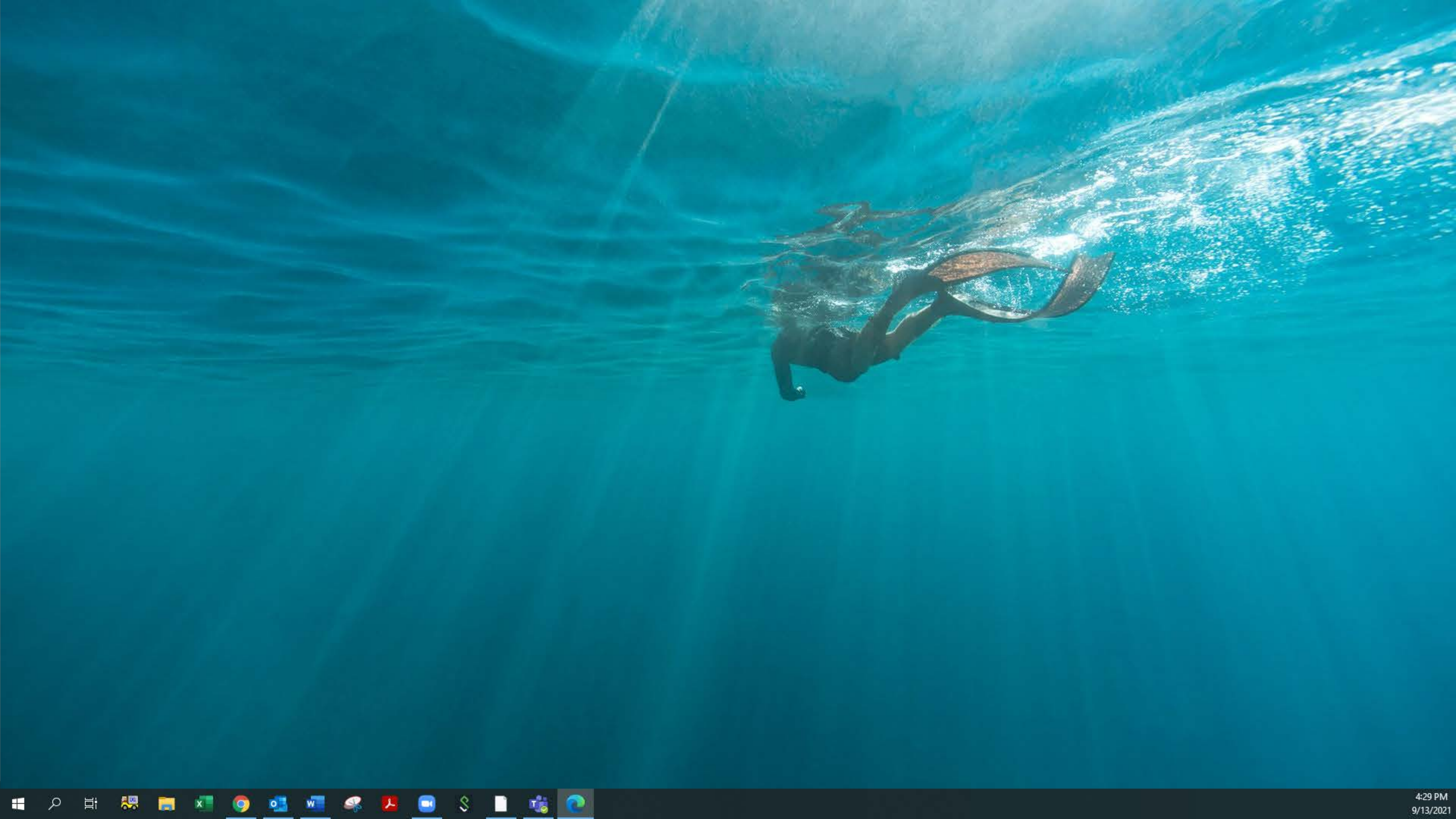
Liver Health Formula

Map of Zipcodes in Wythe County



Wythe County Profile

County Name	Wythe County
FIPS Code	51197
Population	29235
Unemployment Rate	4.1%
Time Zone:	Eastern Daylight Time





Check Email | My Account | Residential Business
User ID: Password: Login
Register Account Recovery

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- ▶ Shentel Connection
- ▶ Contact Information
- ▶ Contact-Us
- ▶ Terms and Conditions

BUNDLES **HIGH SPEED INTERNET** **HOME PHONE** **DIGITAL TV**

Contact Us

Shentel Service *

Category *

Enter your question here with as much detail as possible.

Enter your zipcode

Your Information

First Name *

Last Name *

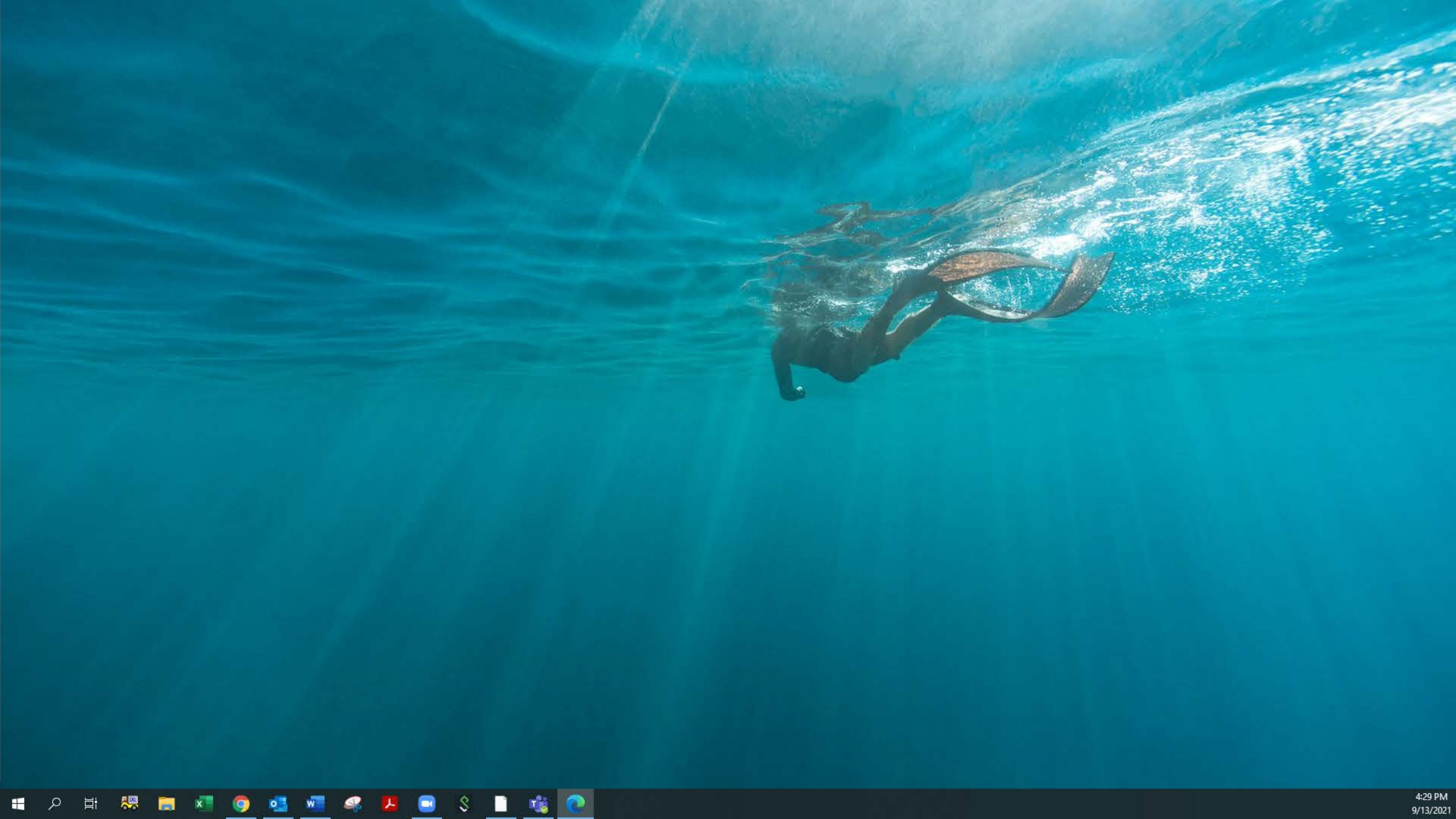
Email Address *

Phone Number

ZIP Code *

Account Information

Existing Customer? Yes No *





Check Email | My Account | Residential **Business**

User ID: Password:

Register Account Recovery

SHOP ▾

EXPLORE ▾

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Shentel Service Area: *

Category: *

Enter your question here with as much detail as possible.

We're sorry, but the zip code you have entered is not in our service area. Contact us for more information.

Your Information

First Name: *

Last Name: *

Email Address: *

Phone Number:

ZIP Code: *

Account Information

Existing Customer? Yes No *





Hmm, that address wasn't found

Please check the address and try again.

Street address Unit Zip code

Check availability

Powerful and **secure**

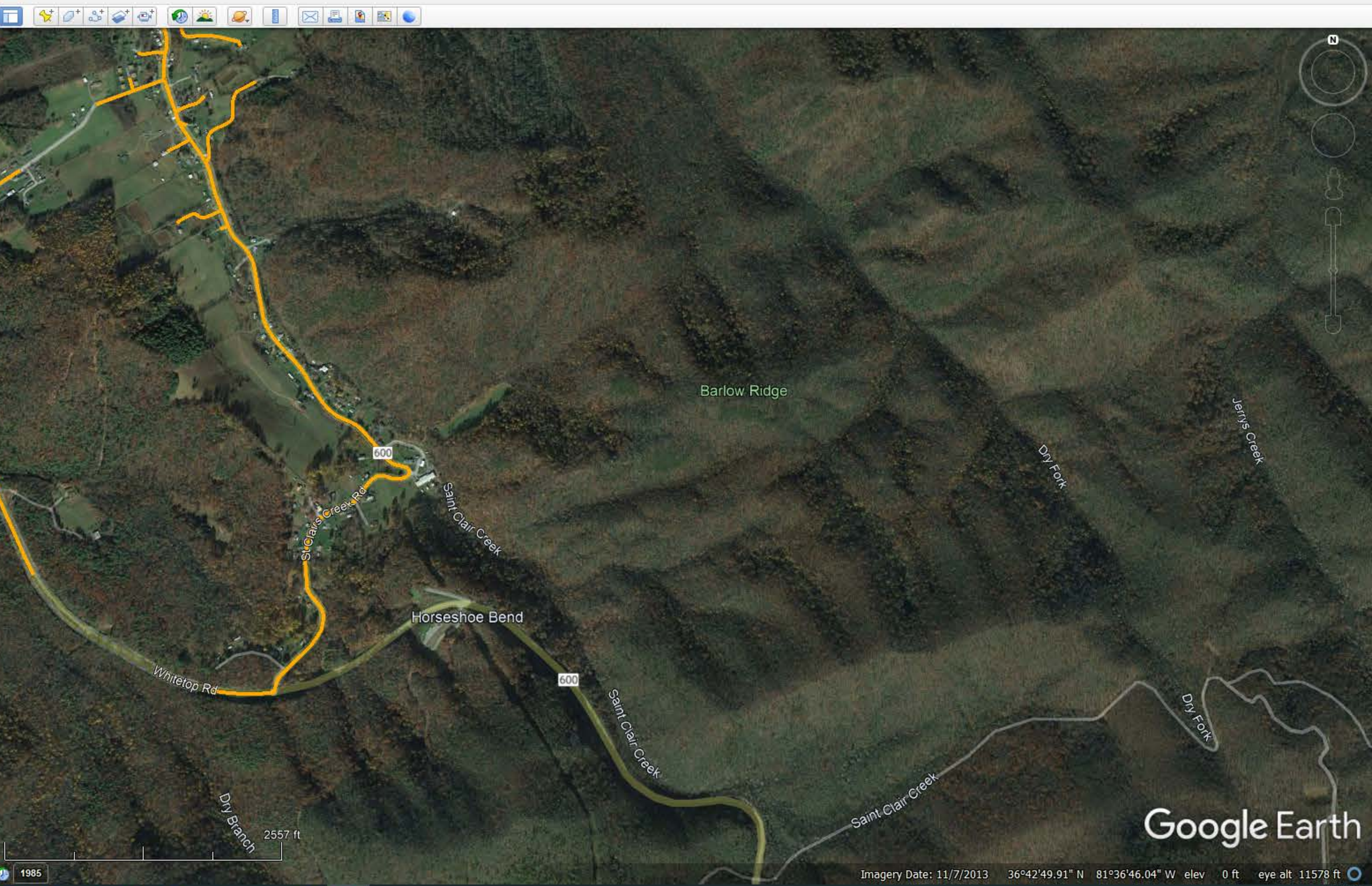
Search [Get Directions](#) [History](#)

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **mill creek rd, 1, 24319**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.
Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

We're sorry, we couldn't find any service providers that service your address. Please check the form and try again or call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

MILL CREEK RD **1** **24319** **Get Connected** →

Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

© 2021 Google

Google Earth

Imagery Date: 11/7/2013 36°42'15.69" N 81°37'51.99" W elev 0 ft eye alt 12105 ft

4:38 PM 9/13/2021

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **1473 STEVENSON FARM RD, 24370**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

Please call toll-free: 1-855-718-0392
to get connected to the best TV, internet and phone services.

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Search

ex: Pizza near Clayville, NY

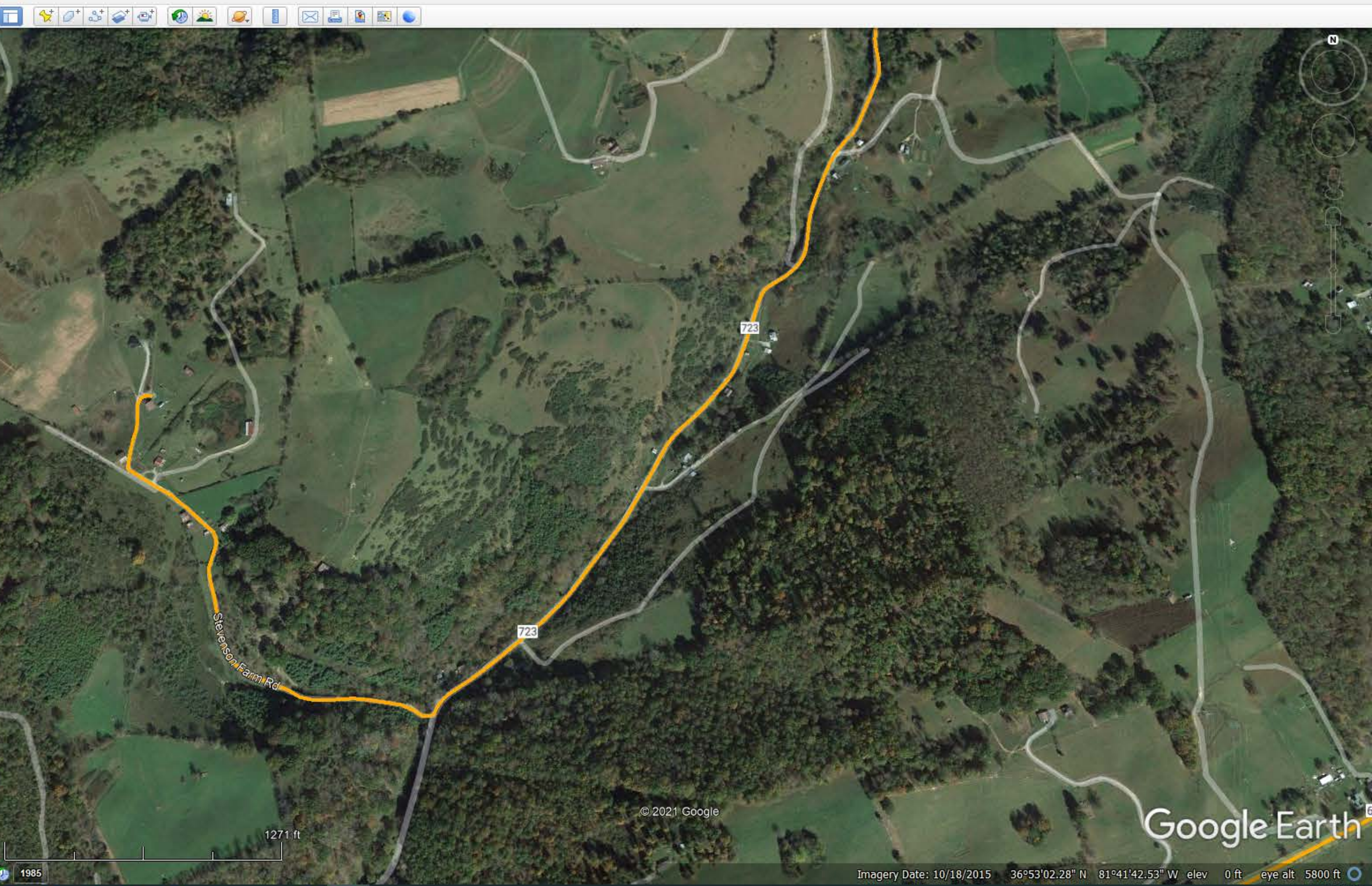
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

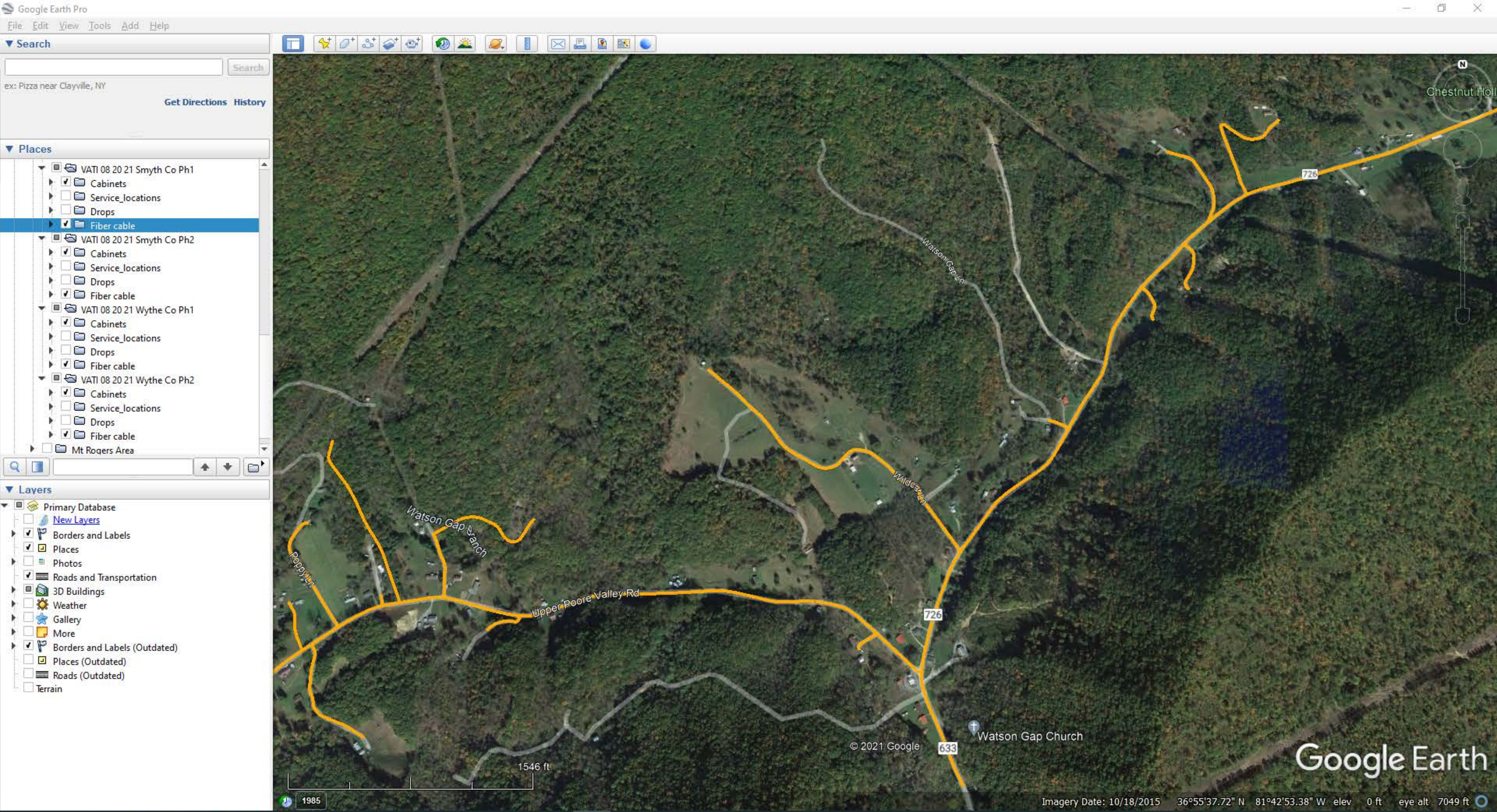
STREET ADDRESS **UNIT** **ZIP CODE**

WILDCAT LN Unit 24370

! The address you entered could not be recognized.

[Continue](#)

Existing customer? [Shop Deals & Customize](#)





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **POOR VALLEY RD, 24318**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

POOR VALLEY RD APT/UNIT 24318 [Get Connected](#) →

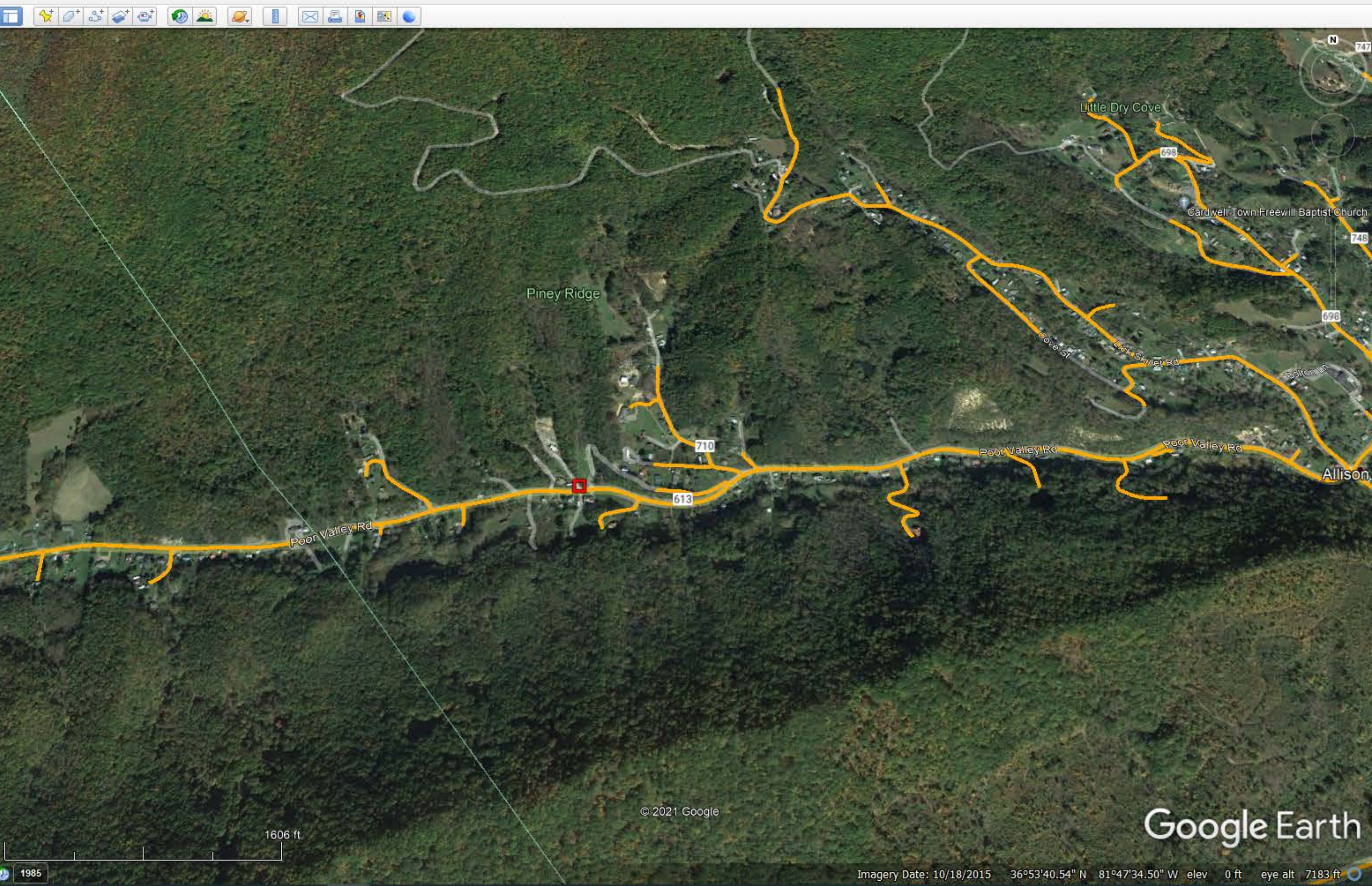
Get new deals sent right to your inbox. Email Address Zip Code [Send Deals](#)


By entering your email address, you agree to receive marketing communications from Comcast via email.

Search bar with "Search" button and "Get Directions History" links.

Places sidebar showing a tree view of locations: VATI 08 20 21 Smyth Co Ph1, VATI 08 20 21 Smyth Co Ph2, VATI 08 20 21 Wythe Co Ph1, VATI 08 20 21 Wythe Co Ph2, and Mt Rogers Area.


Layers sidebar with checkboxes for: Primary Database, New Layers, Borders and Labels, Places, Photos, Roads and Transportation, 3D Buildings, Weather, Gallery, More, Borders and Labels (Outdated), Places (Outdated), Roads (Outdated), and Terrain.




 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **415 BURGESS HOLLOW RD, 24370**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search: Pizza near Clayville, NY

Places:

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers:

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Map showing Burgess Hollow Rd, Cranshaw Hollow, and Possum Hollow. Imagery Date: 10/18/2015. Scale: 1367 ft.

 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **roberts hollow road, 1, 24370**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.
Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

We're sorry, we couldn't find any service providers that service your address. Please check the form and try again or call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

ROBERTS HOLLOW ROAD **1** **24370** [Get Connected](#) →

Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth

Imagery Date: 10/18/2015 36°56'12.85" N 81°37'07.66" W elev 0 ft eye alt 2069 ft

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **6213 ARMSTRONG HOLLOW LN, 24370**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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Search: Pizza near Clayville, NY

Places:


- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers:

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain


Google Earth

Imagery Date: 10/18/2015 36°56'57.73" N 81°35'42.46" W elev 0 ft eye alt 6338 ft


 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **1223 BF BUCHANAN HWY, 24370**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



Please call toll-free: **1-855-718-0392**
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Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Google Earth

Imagery Date: 3/18/2019 36°57'29.52" N 81°31'30.52" W elev 0 ft eye alt 1743 ft

 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **lick creek rd, 24318**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.


Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

LICK CREEK RD	APT/UNIT	24318	Get Connected →
---------------	----------	-------	---------------------------------

Google Earth Pro interface showing a satellite map of a rural area with a yellow line indicating a service path. The interface includes a search bar, a 'Places' list with various categories like 'VATI 08 20 21 Smyth Co Ph1', and a 'Layers' panel with options like 'Primary Database', 'Borders and Labels', and 'Photos'. The map shows a road labeled 'Lick Creek Rd' and a 'Lick Creek Restorations' point of interest. The bottom right corner of the map area displays 'Google Earth' and 'Imagery Date: 3/18/2019'.

 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **shady grove rd, 24318**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

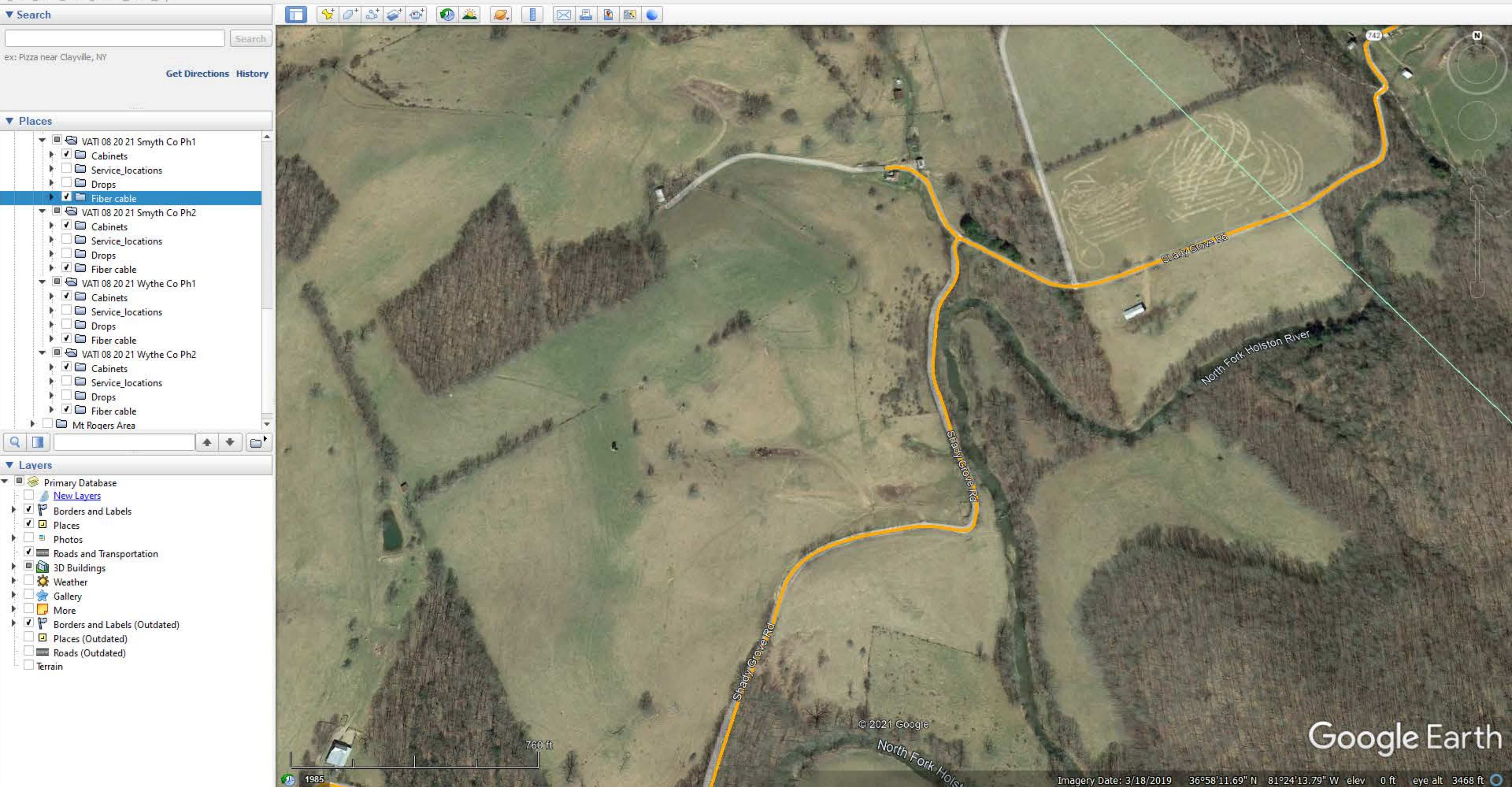
We couldn't find an online match for your address.


Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

SHADY GROVE RD	APT/UNIT	24318	Get Connected →
----------------	----------	-------	---------------------------------



 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **crawfish rd, 24318**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

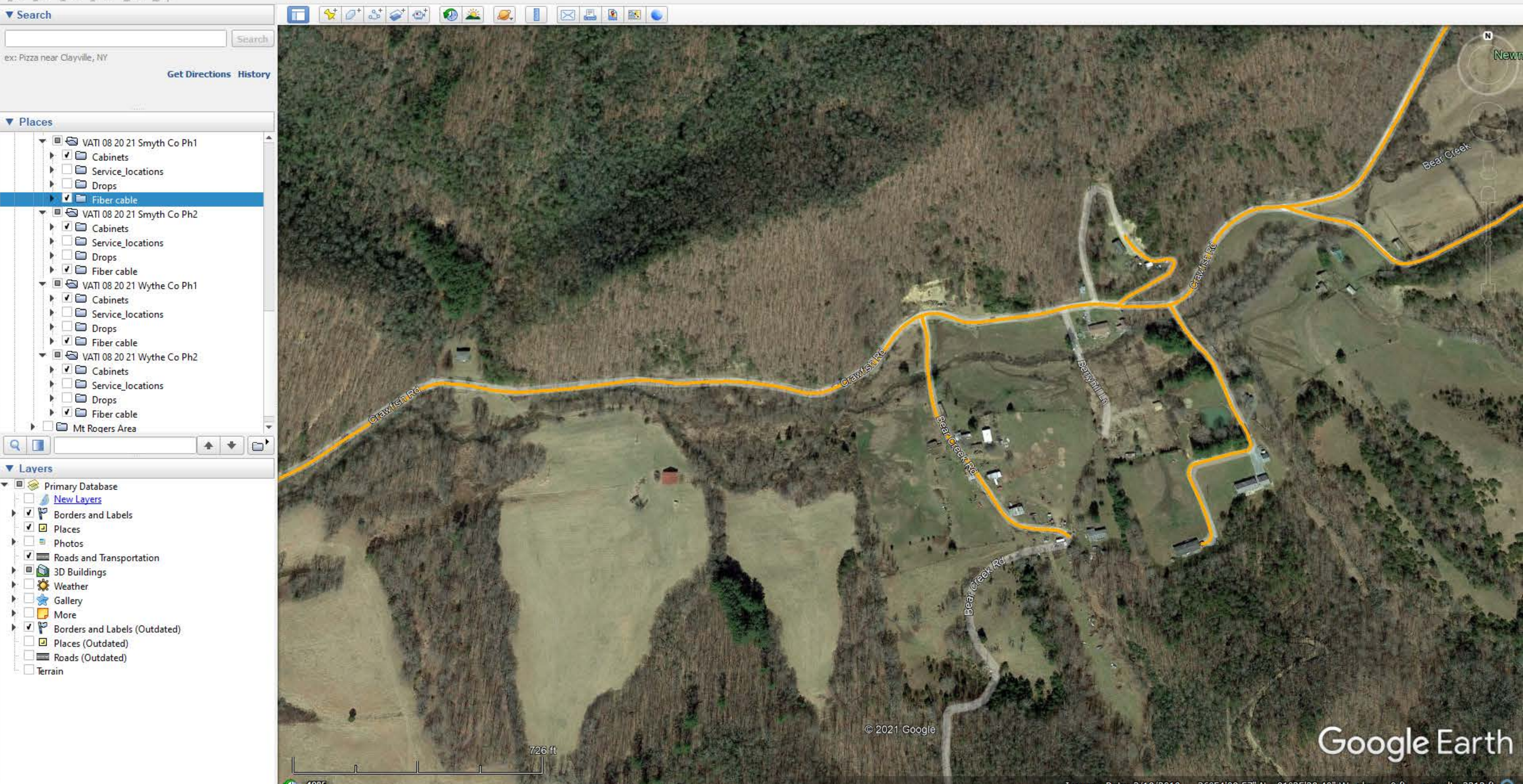
We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.


CRAWFISH RD	APT/UNIT	24318	Get Connected →
--------------------	-----------------	--------------	------------------------



What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

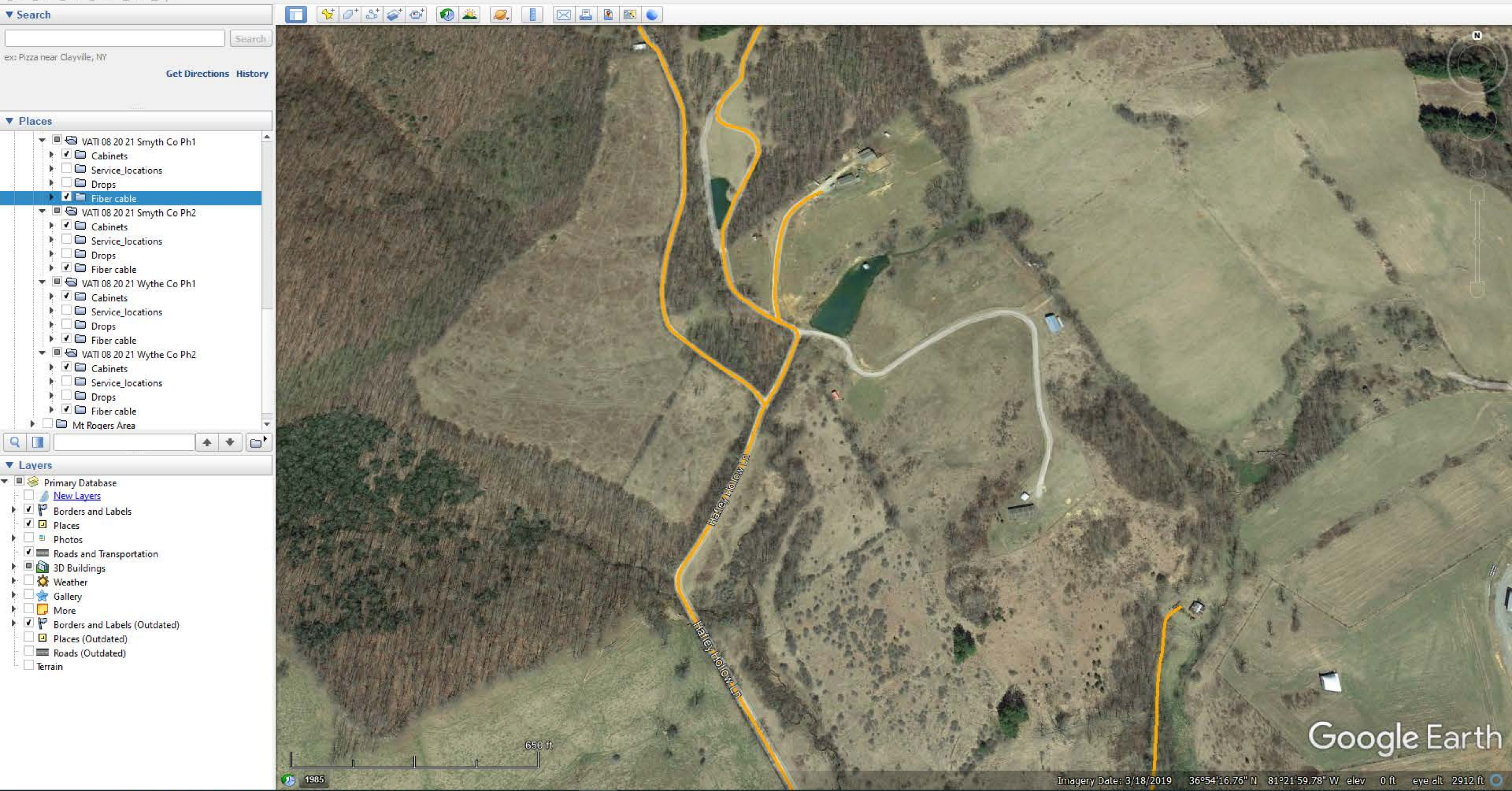
STREET ADDRESS	UNIT	ZIP CODE
1199 HAFLEY HOLLOW LN	Unit	24368

 The address you entered could not be recognized.

[Continue](#)

Existing customer? [Shop Deals & Customize](#)

CRAWFISH RD APT/UNIT 24318 [Get Connected](#) →





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **3106 MARLIN LN, 24354**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search: Pizza near Clayville, NY

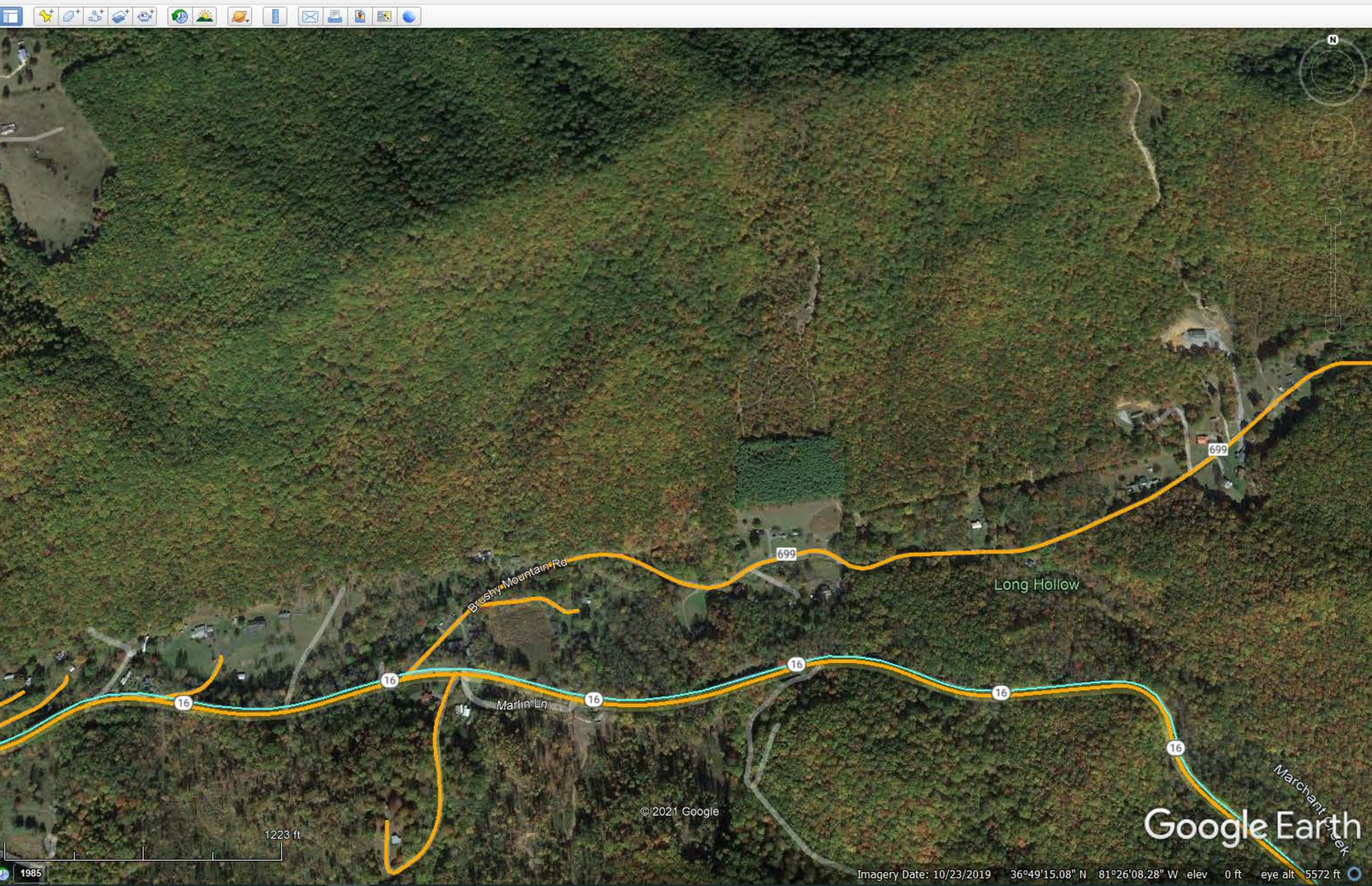
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers


- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain




 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **CLEGHORN VLY, 24354**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

© 2021 Google

Imagery Date: 10/18/2015 36°51'36.60" N 81°38'39.10" W elev 0 ft eye alt 5133 ft

Google Earth



Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **BUCKS BRIDGE RD, 1, 24340**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

Search

We are now searching for services available at:
BUCKS BRIDGE RD Apt: 1
Zip Code: 24340

- I WANT TO
- View & Pay Bill
 - Check Email & Voicemail
 - Manage My Account
 - Refer-a-Friend
 - Get Apps
 - Manage Parental Controls
 - Monitor Home Security
 - Upgrade My Service
 - Find My Xfinity ID
 - Find an Xfinity Store
 - Move My Services
 - Run Internet Speed Test

Search

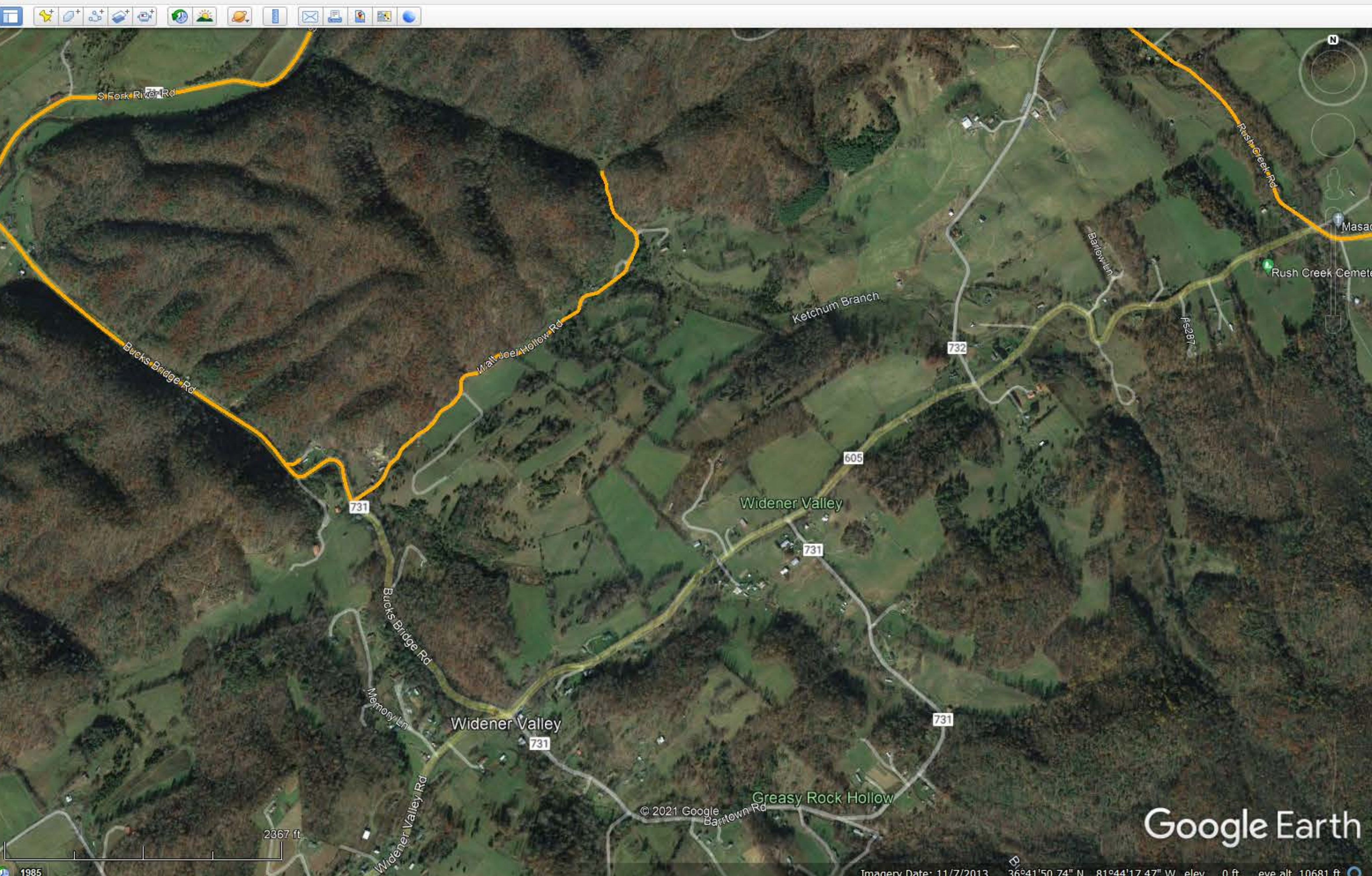
ex: Pizza near Clayville, NY [Get Directions](#) [History](#)

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for KELLY CHAPEL RD, 1, 24319. To find a local provider, please contact SmartMove for assistance.

Try a different address, including apartment number

Search



We are now searching for services available at:
KELLY CHAPEL RD Apt: 1
Zip Code: 24319

- I WANT TO
- View & Pay Bill
 - Check Email & Voicemail
 - Manage My Account
 - Refer-a-Friend
 - Get Apps
 - Manage Parental Controls
 - Monitor Home Security
 - Upgrade My Service
 - Find My Xfinity ID
 - Find an Xfinity Store
 - Move My Services
 - Run Internet Speed Test

Search

ex: Pizza near Clayville, NY

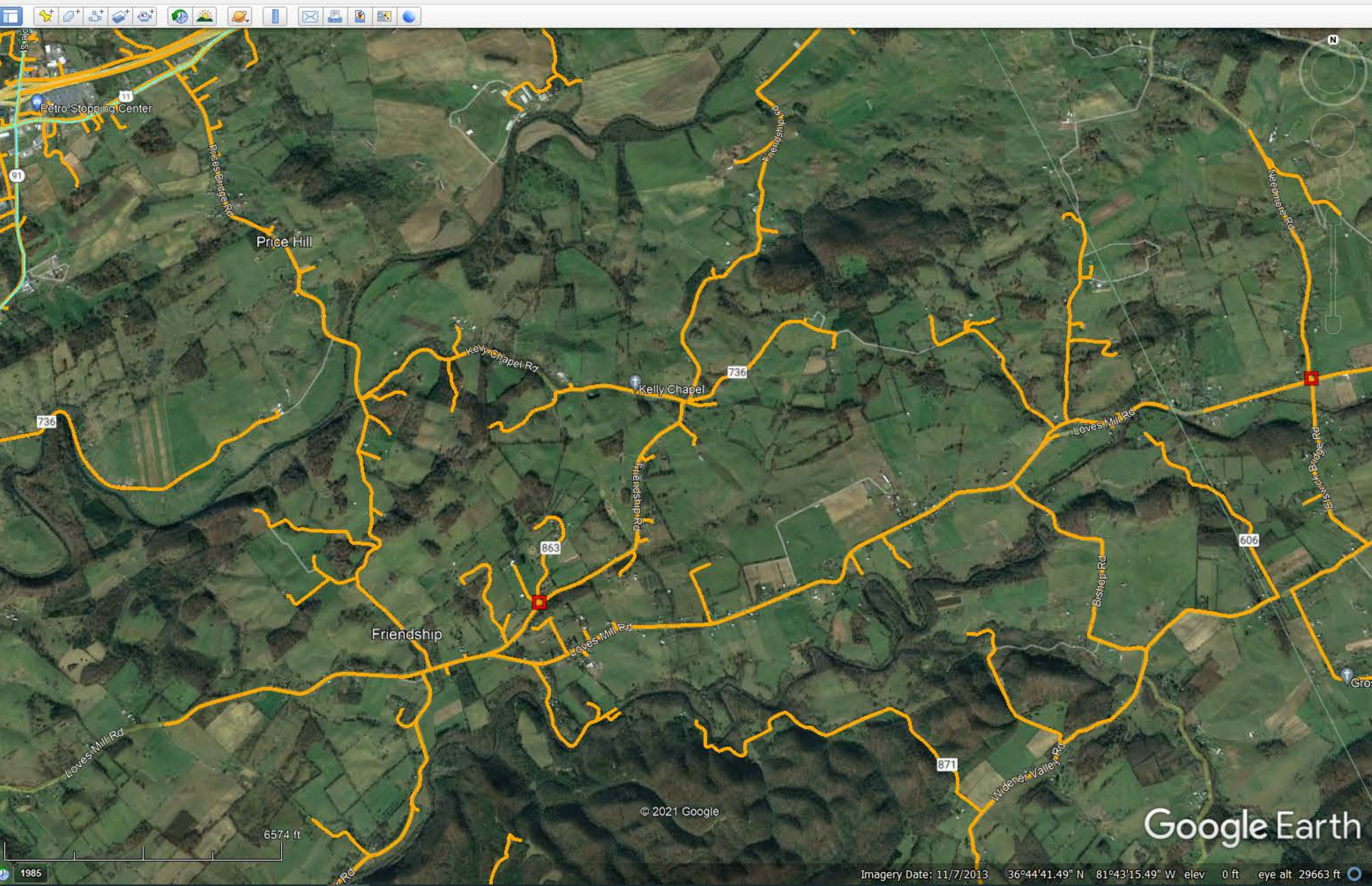
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain



 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **COOL BREEZE DR, 1, 24211**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.
Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

We're sorry, we couldn't find any service providers that service your address. Please check the form and try again or call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

COOL BREEZE DR **1** **24211** [Get Connected](#) →

Search: Pizza near Clayville, NY

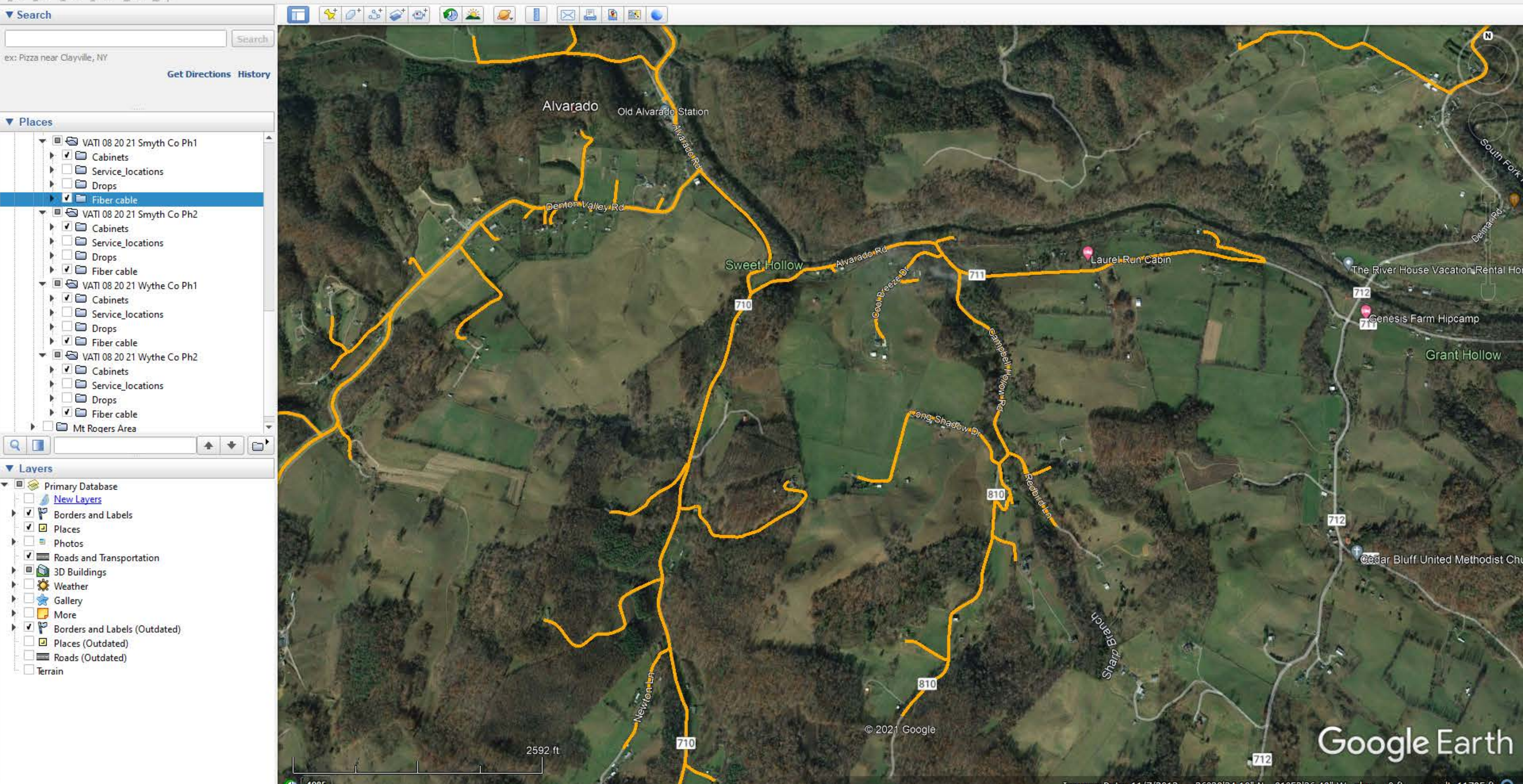
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



© 2021 Google

Imagery Date: 11/7/2013 36°38'24.10" N 81°52'36.49" W elev 0 ft eye alt 11795 ft

What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS **UNIT** **ZIP CODE**

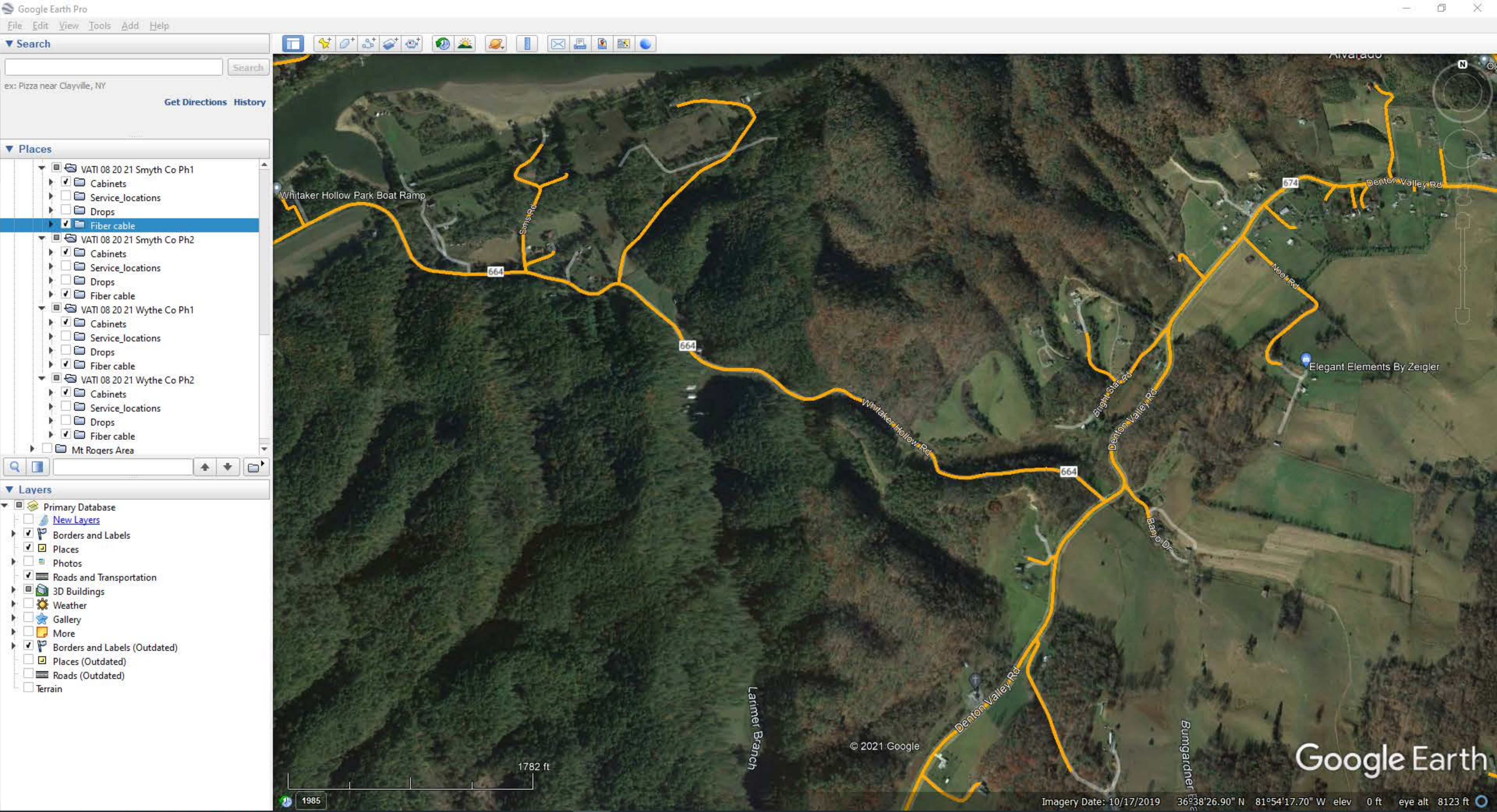
25136 WHITAKER HOLLOW RD Unit 24211

The address you entered could not be recognized.

Continue

Existing customer? [Shop Deals & Customize](#)

COOL BREEZE DR 1 24211 [Get Connected](#)



 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **cox mill rd , 1, 24211**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

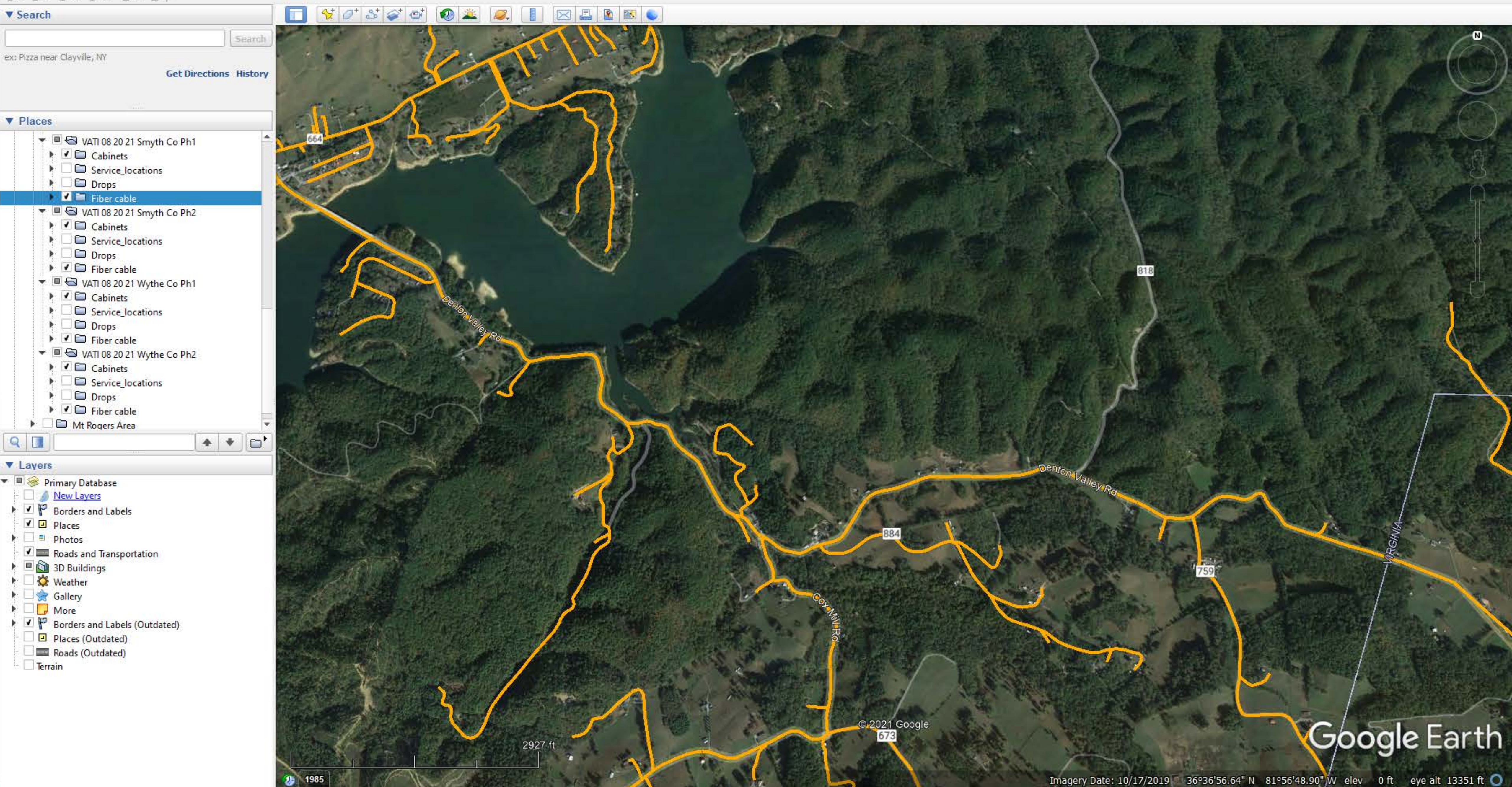
We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

We're sorry, we couldn't find any service providers that service your address. Please check the form and try again or call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

COX MILL RD 1 24211 [Get Connected](#) →



Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **24481 CAVE CREEK RD, 24211**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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Search

ex: Pizza near Clayville, NY

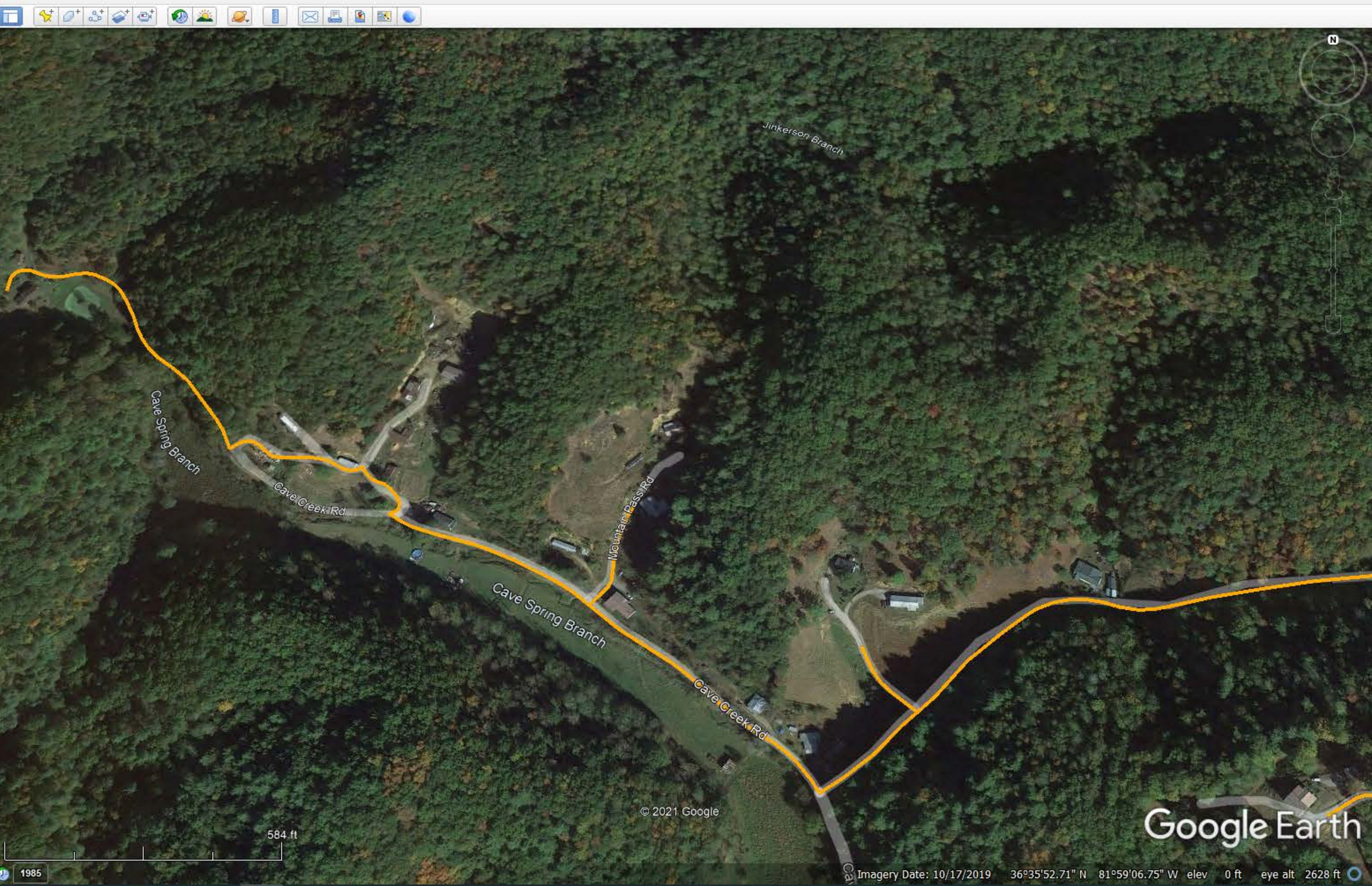
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



!

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **24080 CAMP SEQUOYA DR, 24211**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

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Search: Pizza near Clayville, NY

Places:

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers:


- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

© 2021 Google

What's your address?

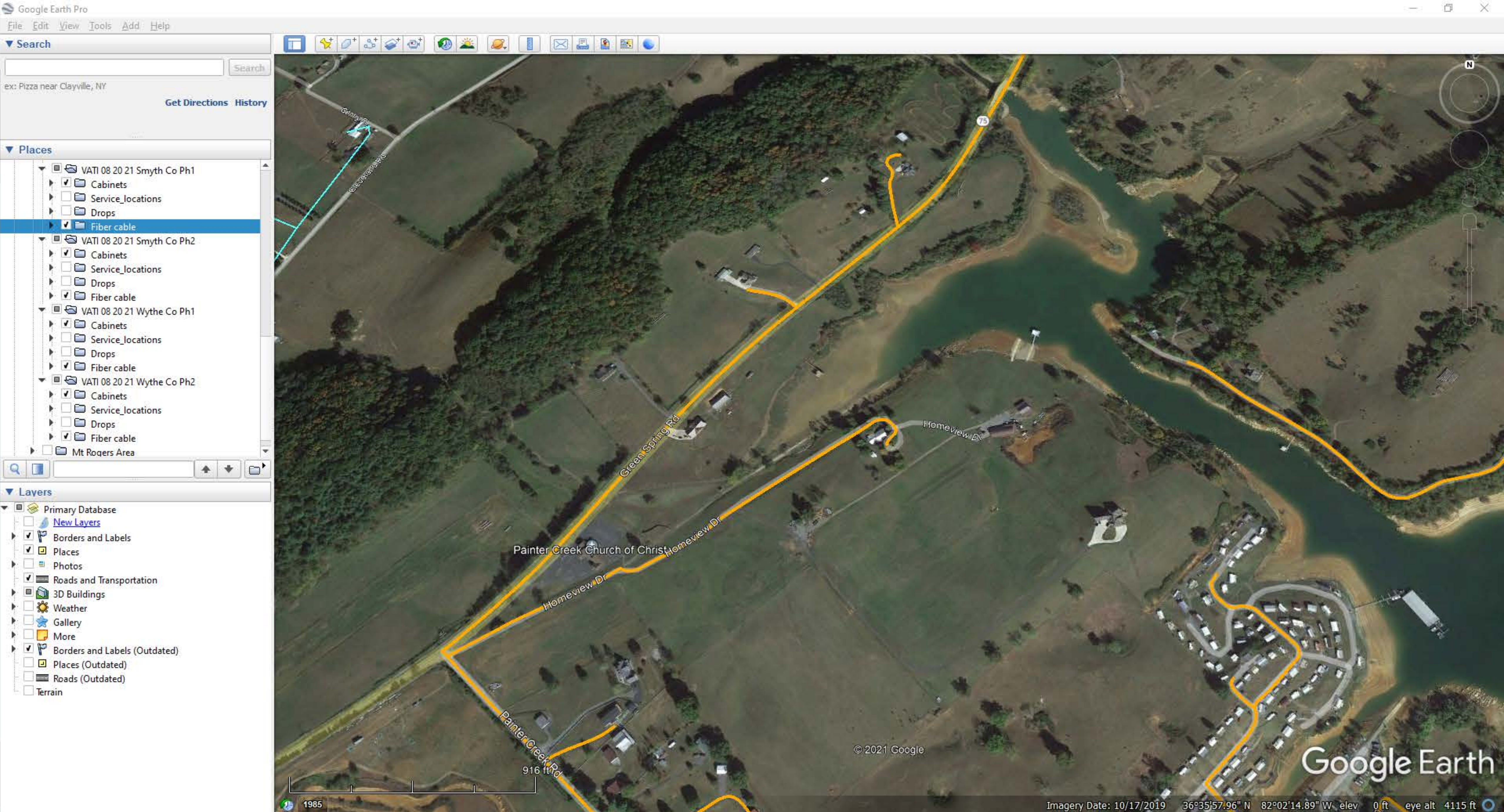
Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS	UNIT	ZIP CODE
18136 HOMEVIEW DR	Unit	24211

 The address you entered could not be recognized.

[Continue](#)


Existing customer? [Shop Deals & Customize](#)





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **21512 GOLDEN VIEW DR, 24211**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)


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Email Address Zip Code

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Search

ex: Pizza near Clayville, NY

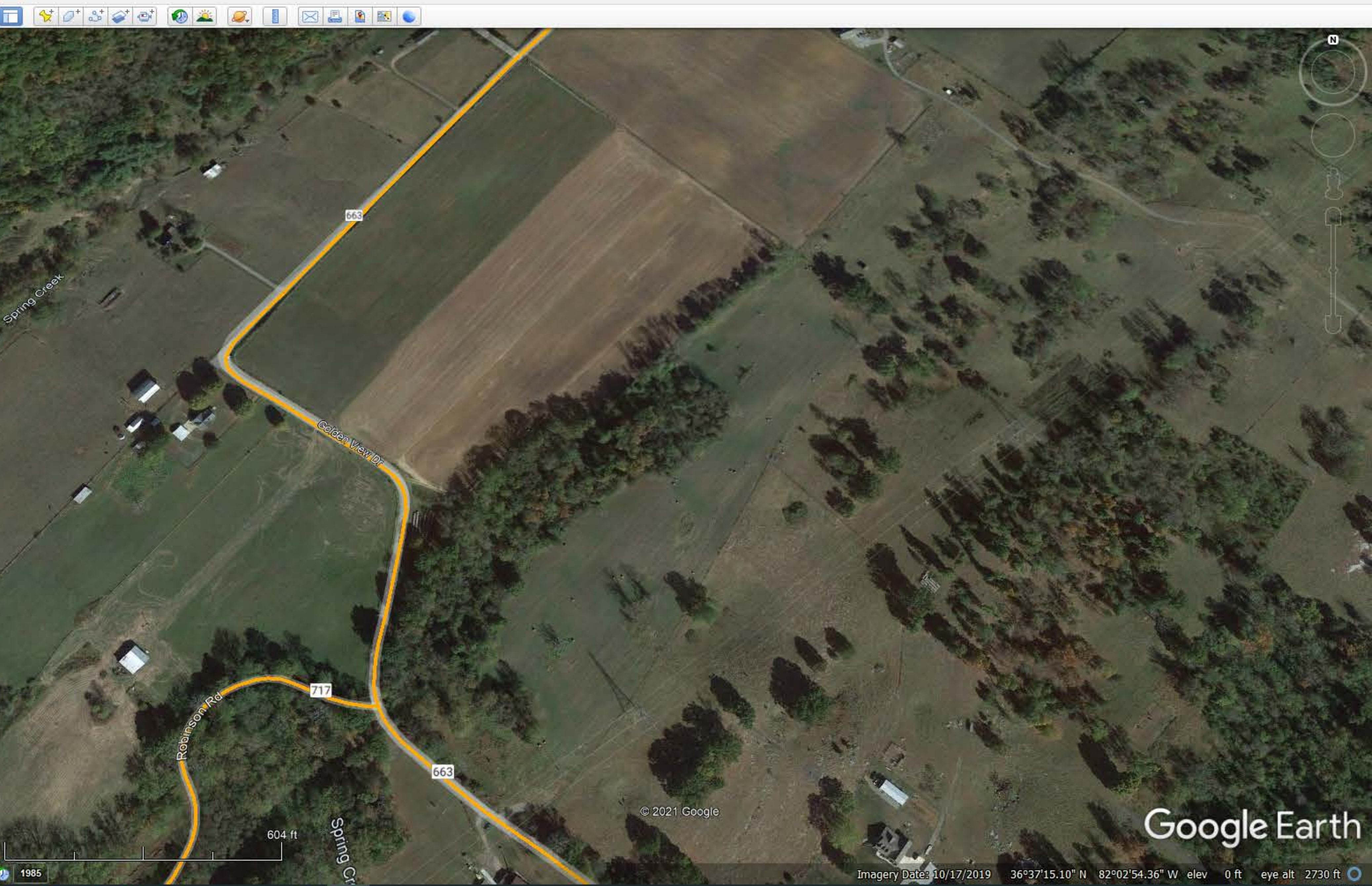
Get Directions History


Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers


- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain




 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **19083 CREAMERY DR, 24211**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Email Address

Zip Code

[Send Deals](#)

By entering your email address, you agree to receive marketing communications from Comcast via email.

Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area


Layers


- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain


Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **20149 DRUGAN LN, 24211**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)


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to get connected to the best TV, internet and phone services.

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Search

ex: Pizza near Clayville, NY

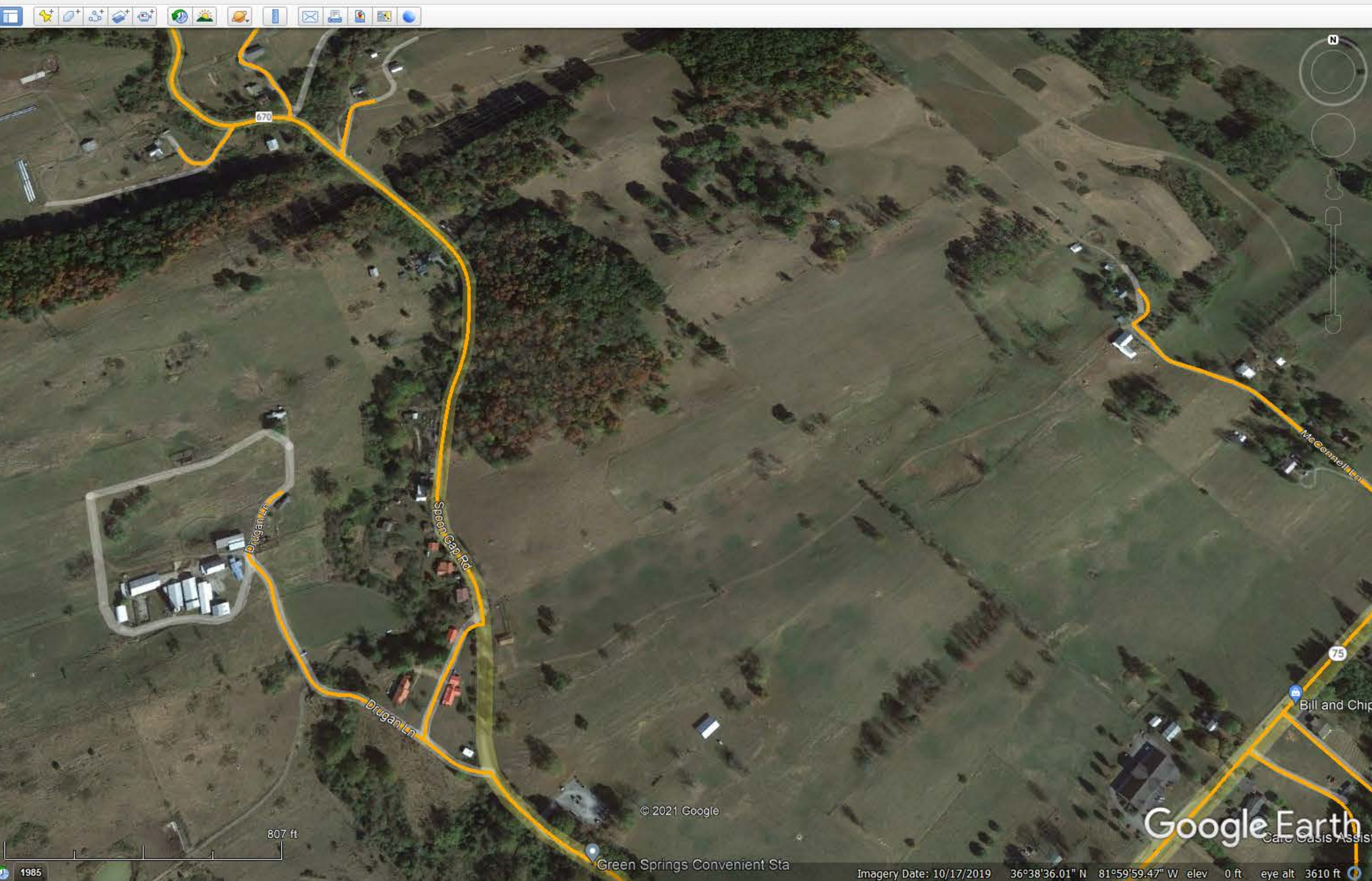
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **19799 STOVER LN, 24211**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

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Google Earth Pro

Search: Pizza near Clayville, NY

Places:

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers:

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Map showing fiber cable route (yellow line) and Spoon Gap Rd. Labels include Spoon Gap Rd, Spoon Gap Hollow, Stover Ln, and Candle Creations. Scale bar shows 359 ft. Imagery Date: 10/17/2019. © 2021 Google

What's your address?

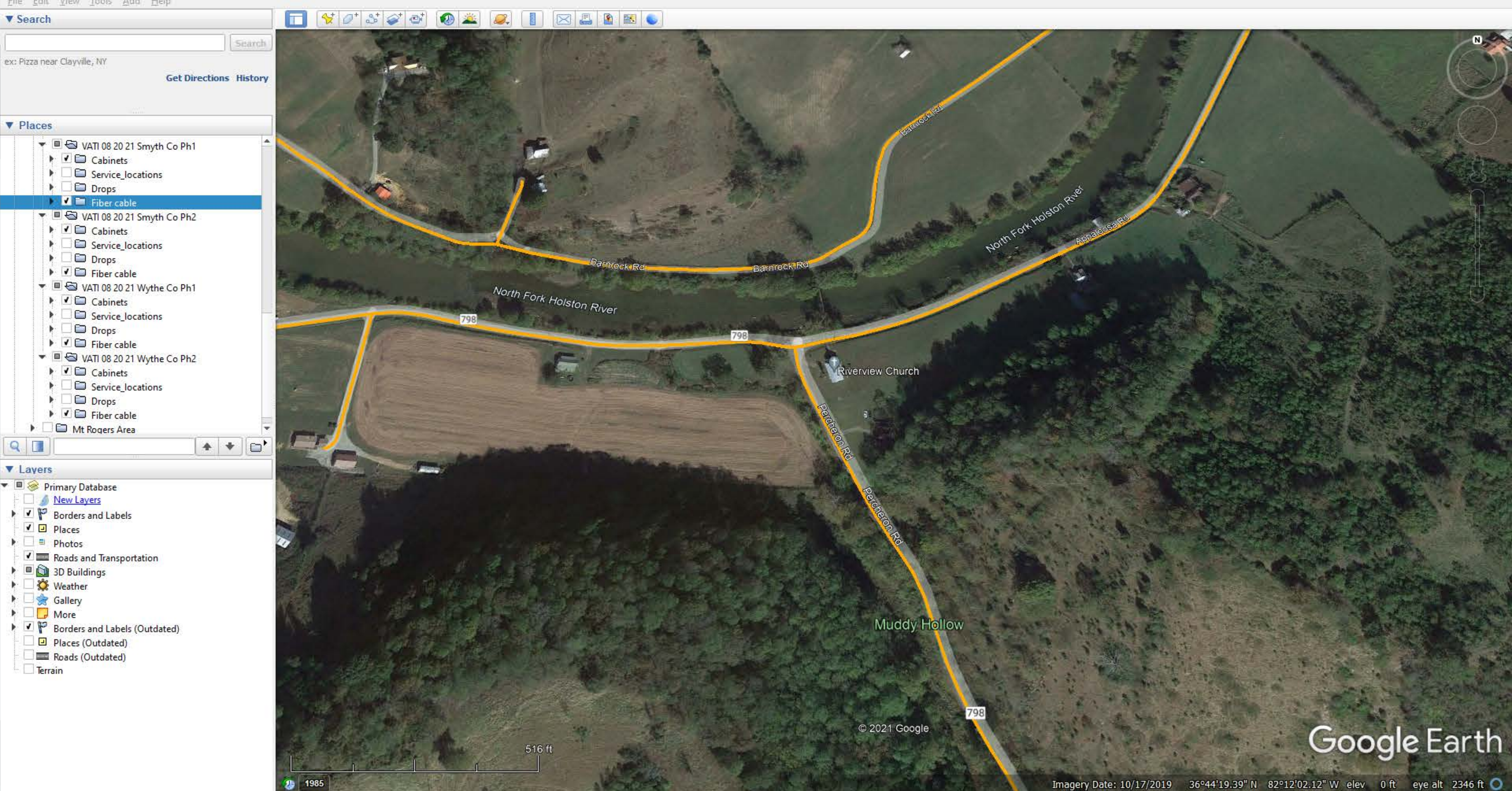
Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS	UNIT	ZIP CODE
14139 PERCHERON RD	Unit	24202

! The address you entered could not be recognized.

[Continue](#)

Existing customer? [Shop Deals & Customize](#)





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **APPALOOSA RD, 1, 24202**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

APPALOOSA RD

1

24202

[Get Connected](#)

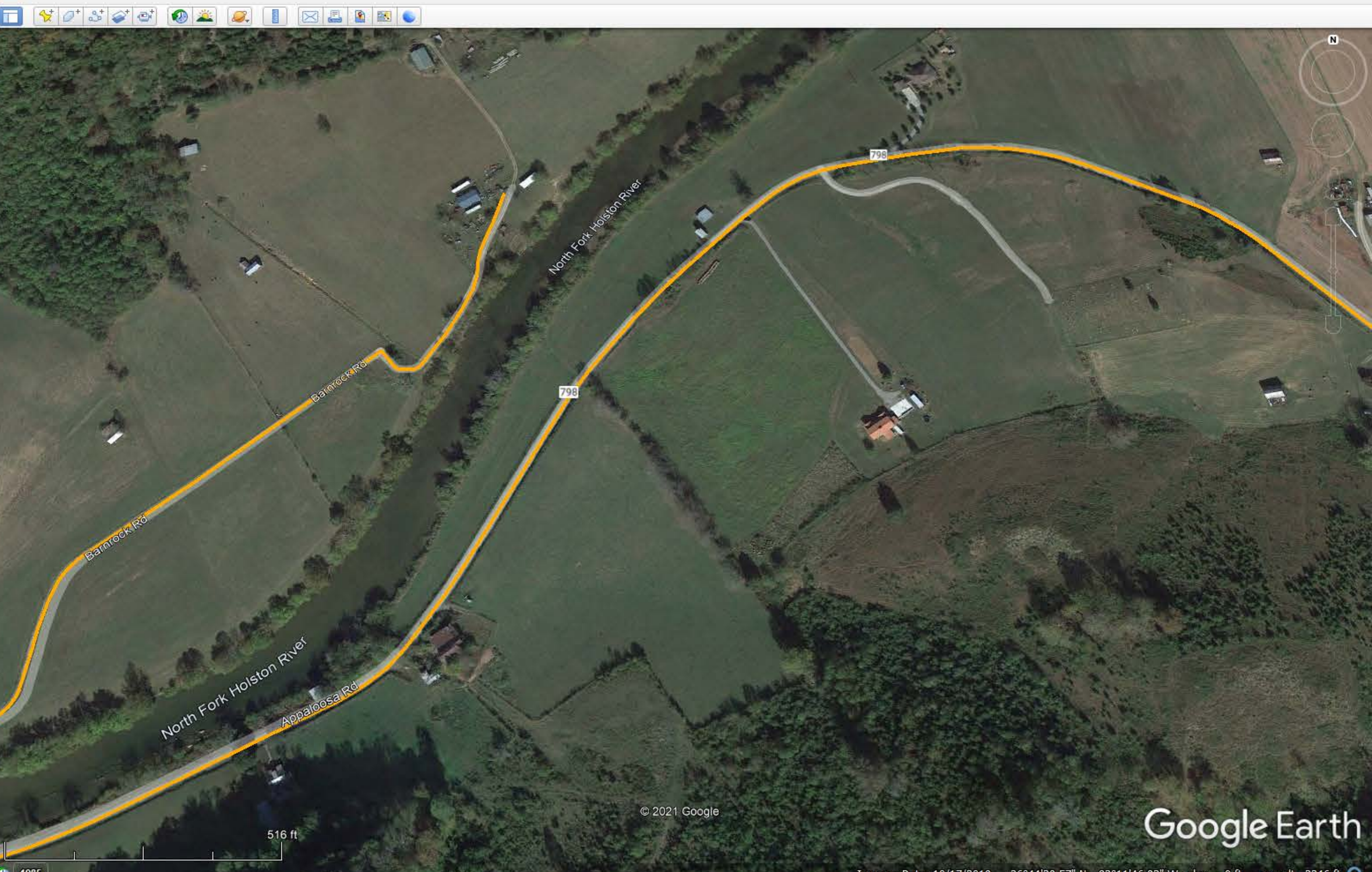
Search: Pizza near Clayville, NY
Get Directions History

Places:

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers:

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **13544 REVERA DR, 24270**. To find a local provider, please contact SmartMove for assistance.

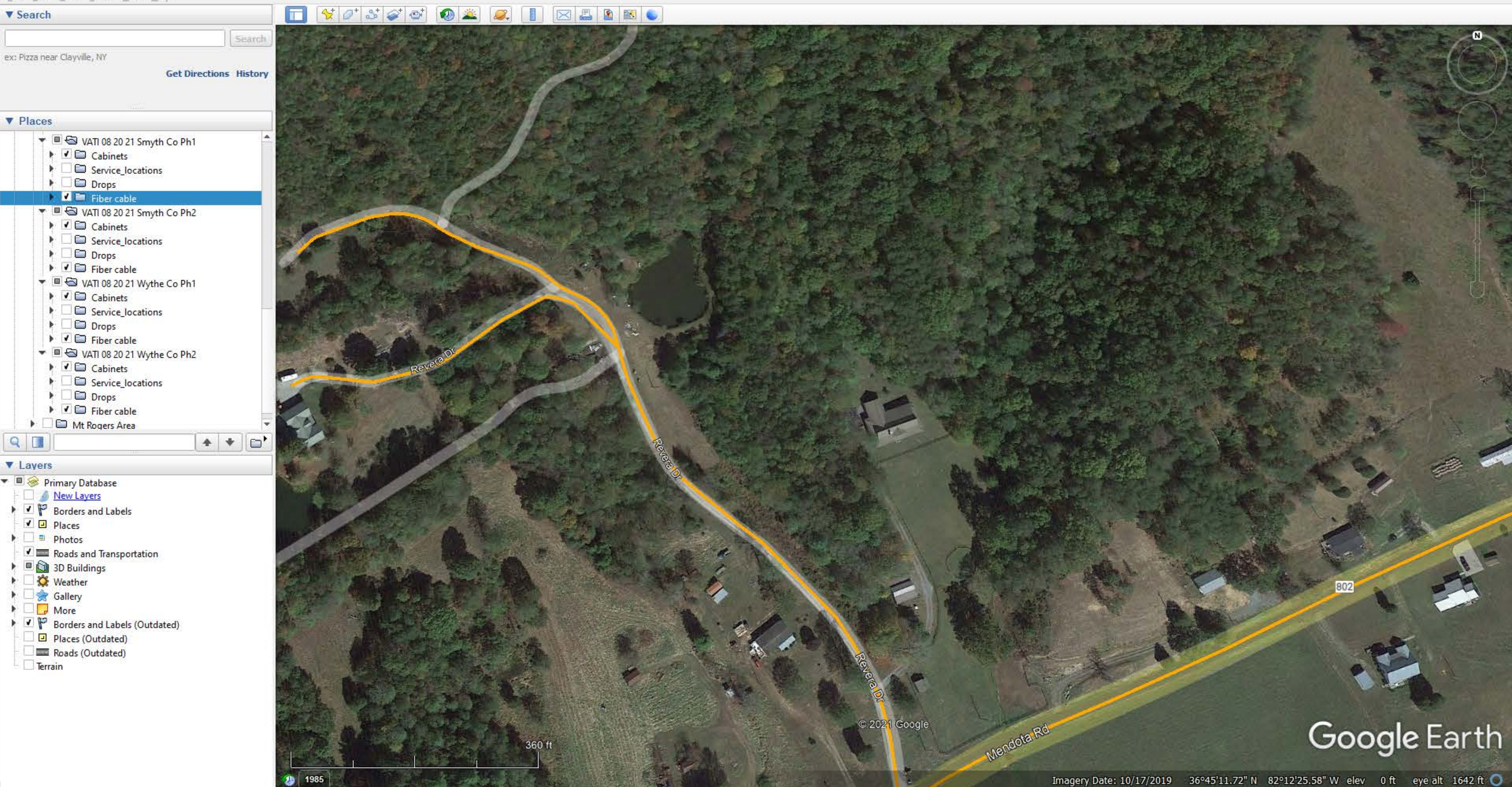
[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.



!

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **13325 JASPER CREEK RD, 24202**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **10031 SMITH CREEK RD, 24202**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search

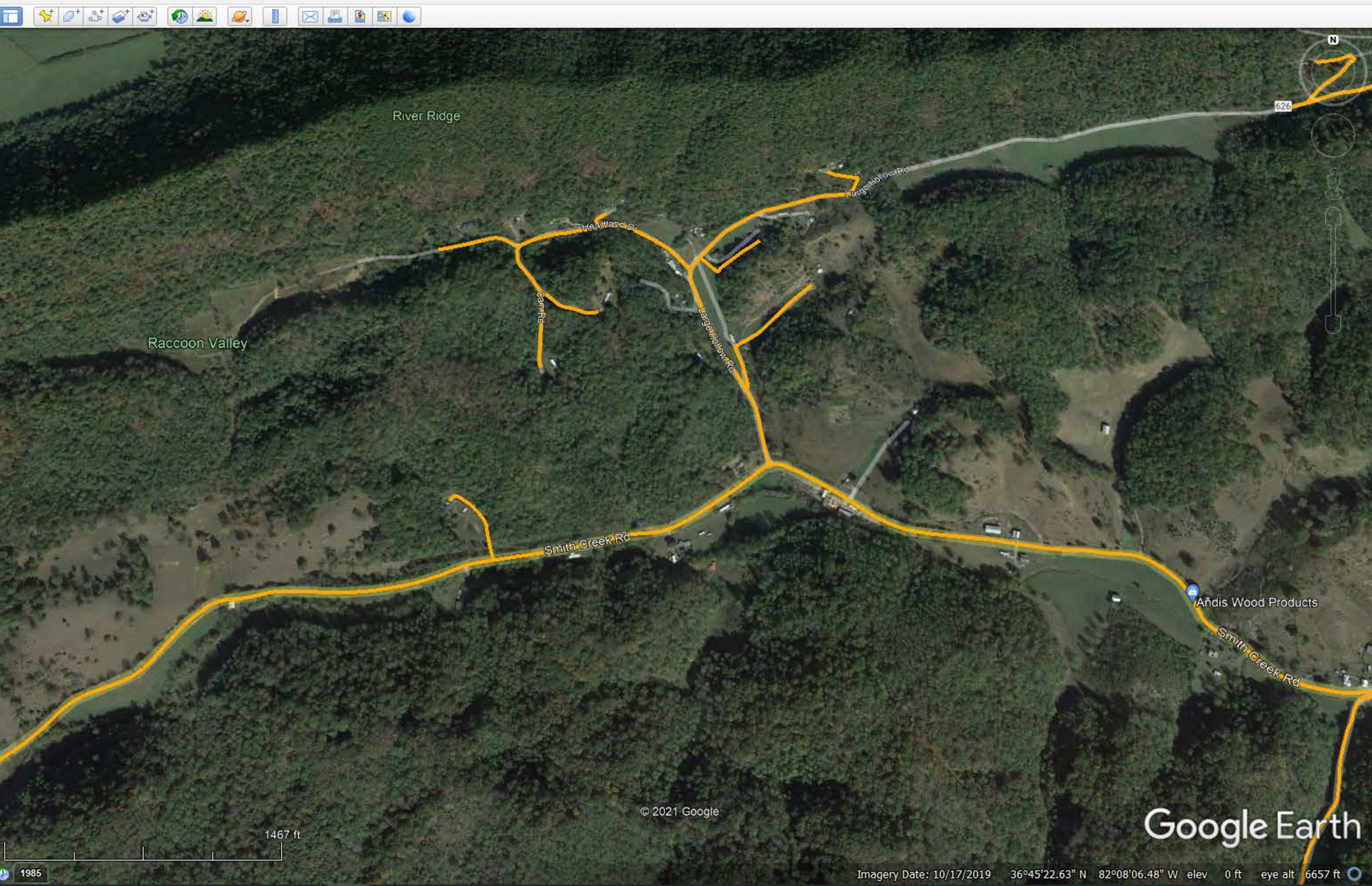
ex: Pizza near Clayville, NY [Get Directions](#) [History](#)

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **8207 CANEY VALLEY RD, 24202**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search

ex: Pizza near Clayville, NY

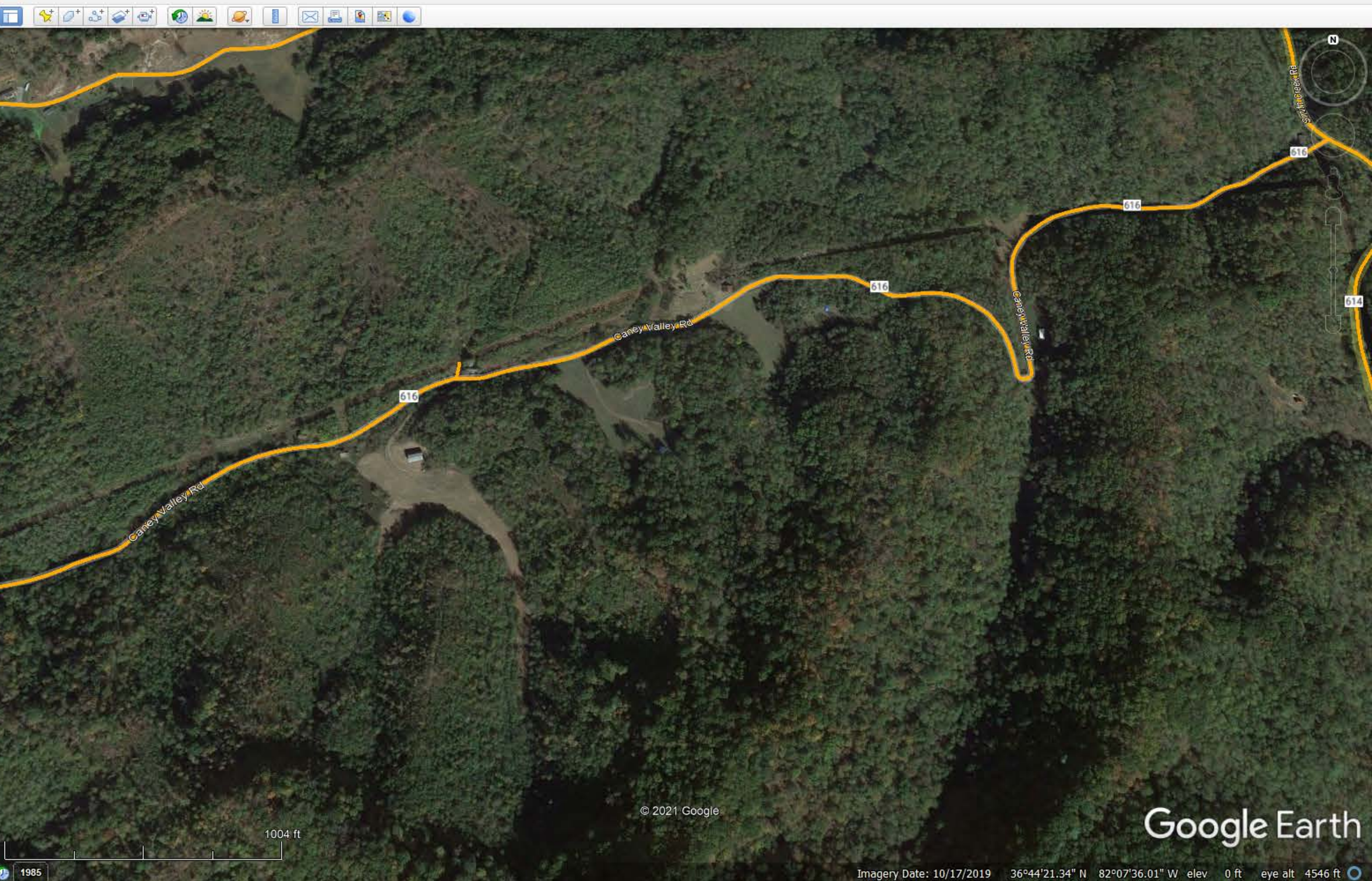
Get Directions History

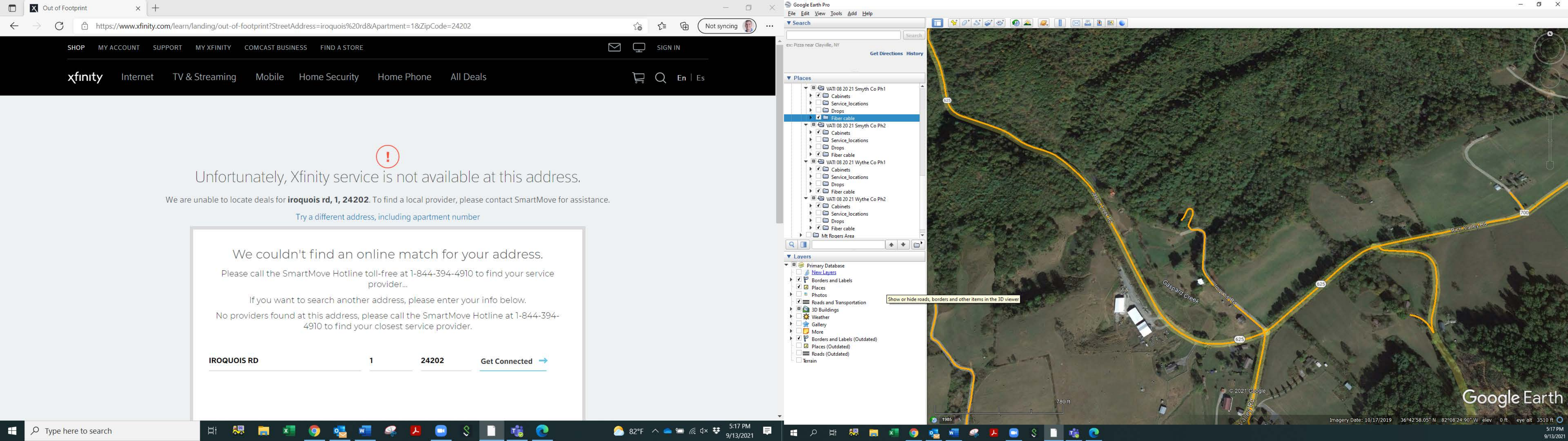
Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **iroquois rd, 1, 24202**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

No providers found at this address, please call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

IROQUOIS RD **1** **24202** [Get Connected](#) →

Search

ex: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Show or hide roads, borders and other items in the 3D viewer

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **15462 FLEENORS MEMORIAL RD, 24202**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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Search

ex: Pizza near Clayville, NY

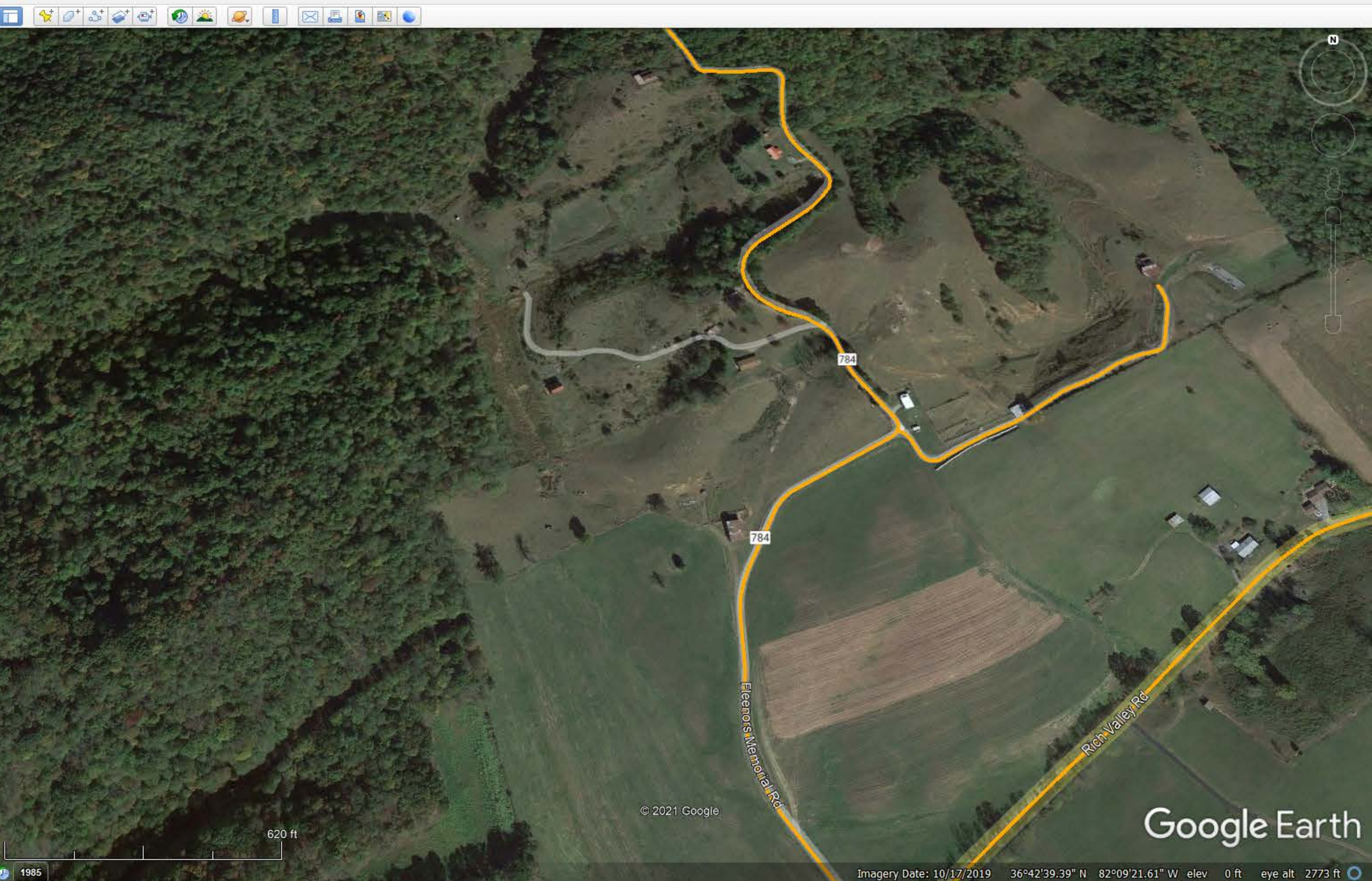
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS	UNIT	ZIP CODE
16601 CRAWFORD RD	Unit	24202

The address you entered could not be recognized.

[Continue](#)

Existing customer? [Shop Deals & Customize](#)

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Google Earth Pro

Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain


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Imagery Date: 10/17/2019 36°42'11.74" N 82°10'22.57" W elev 0 ft eye alt 5952 ft


 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **16422 NORDYKE RD, 24202**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search: Pizza near Clayville, NY

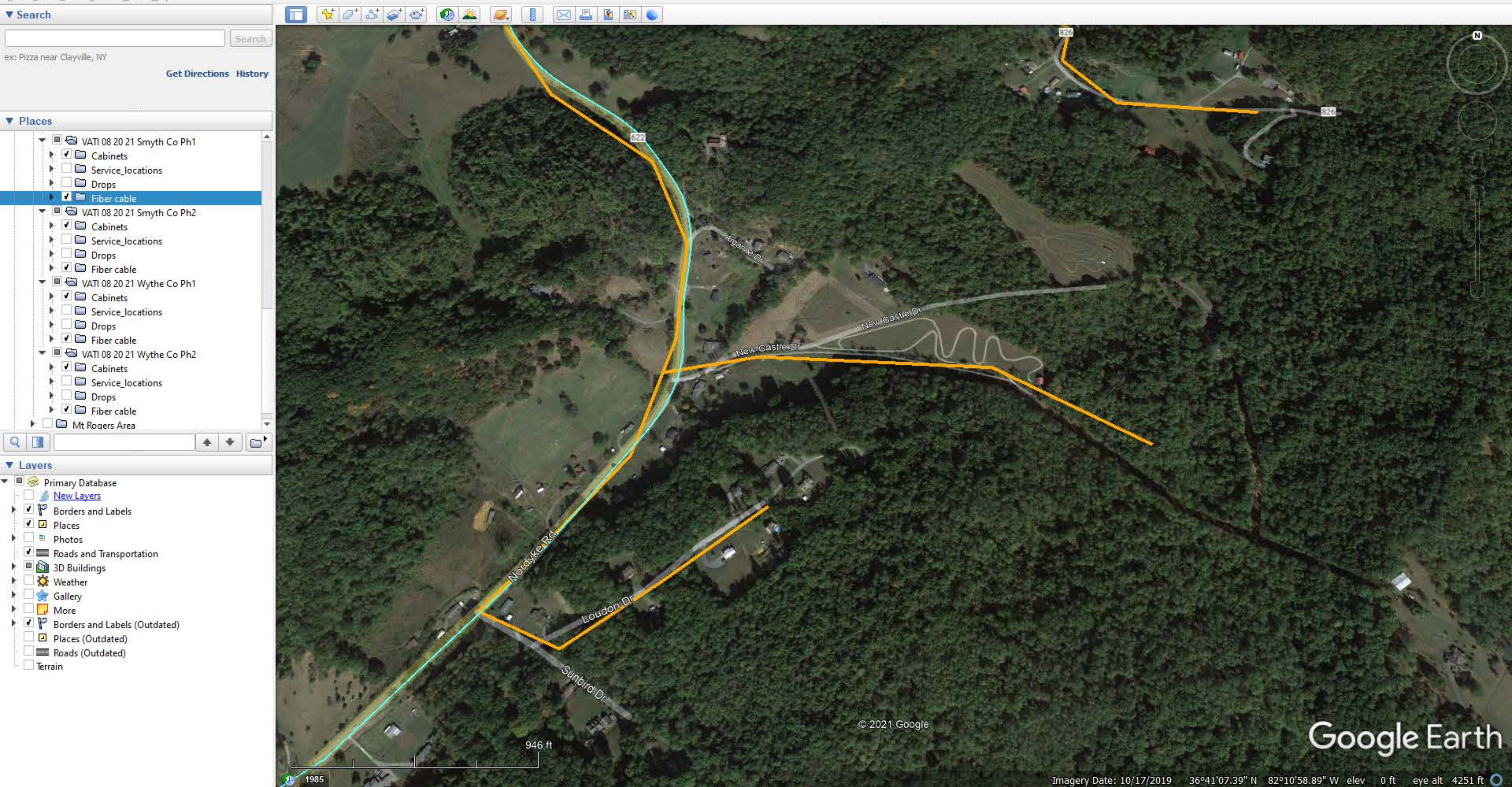
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
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 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **14968 SWISS LN, 24210**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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Search: Pizza near Clayville, NY

Places:

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers:

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

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Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **7904 HIDDEN VALLEY RD, 24210**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **9392 SCOTT RIDGE RD, 24210**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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to get connected to the best TV, internet and phone services.

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Search

ex: Pizza near Clayville, NY

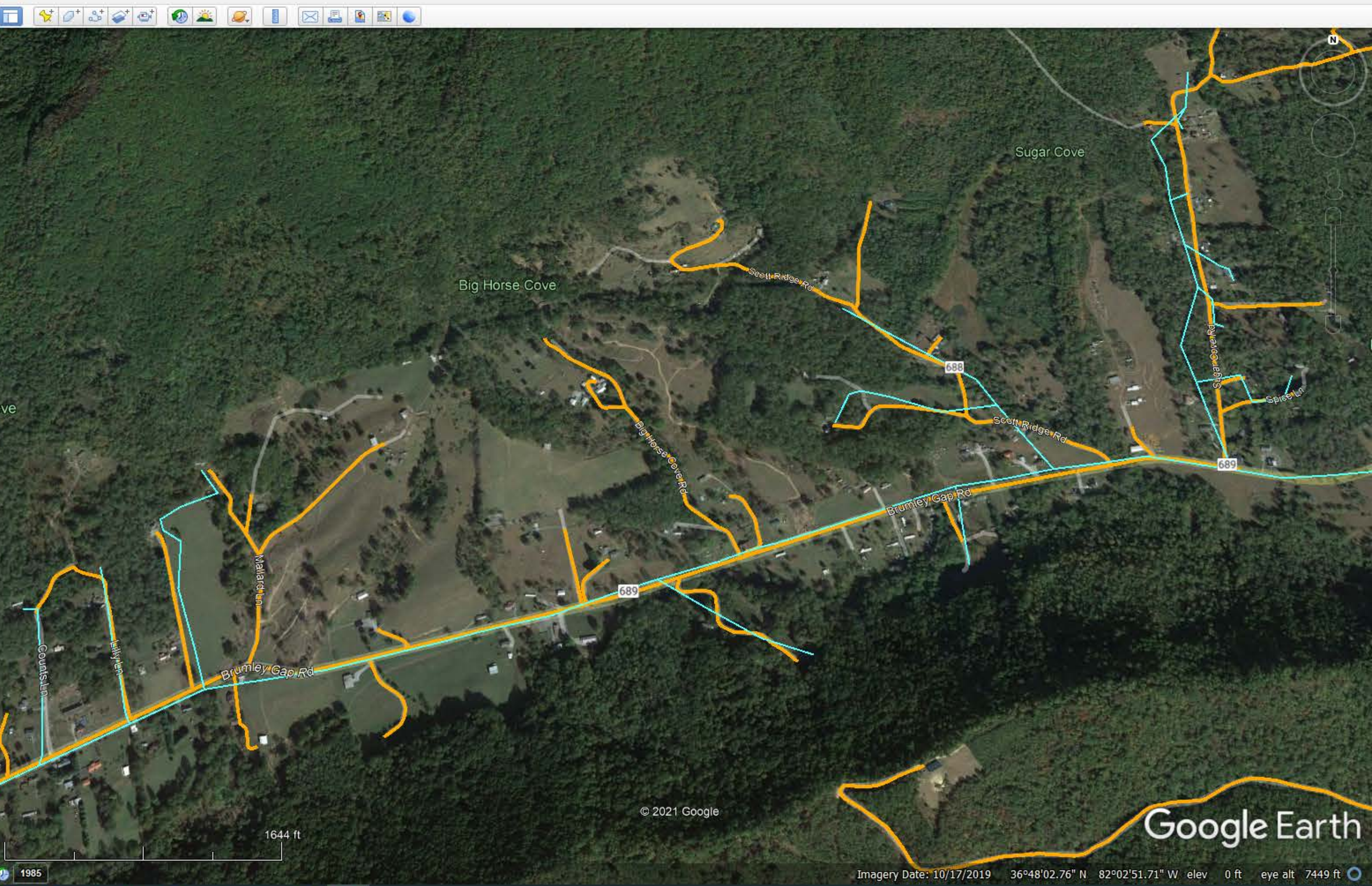
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **9457 BRYSON COVE RD, 24210**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search

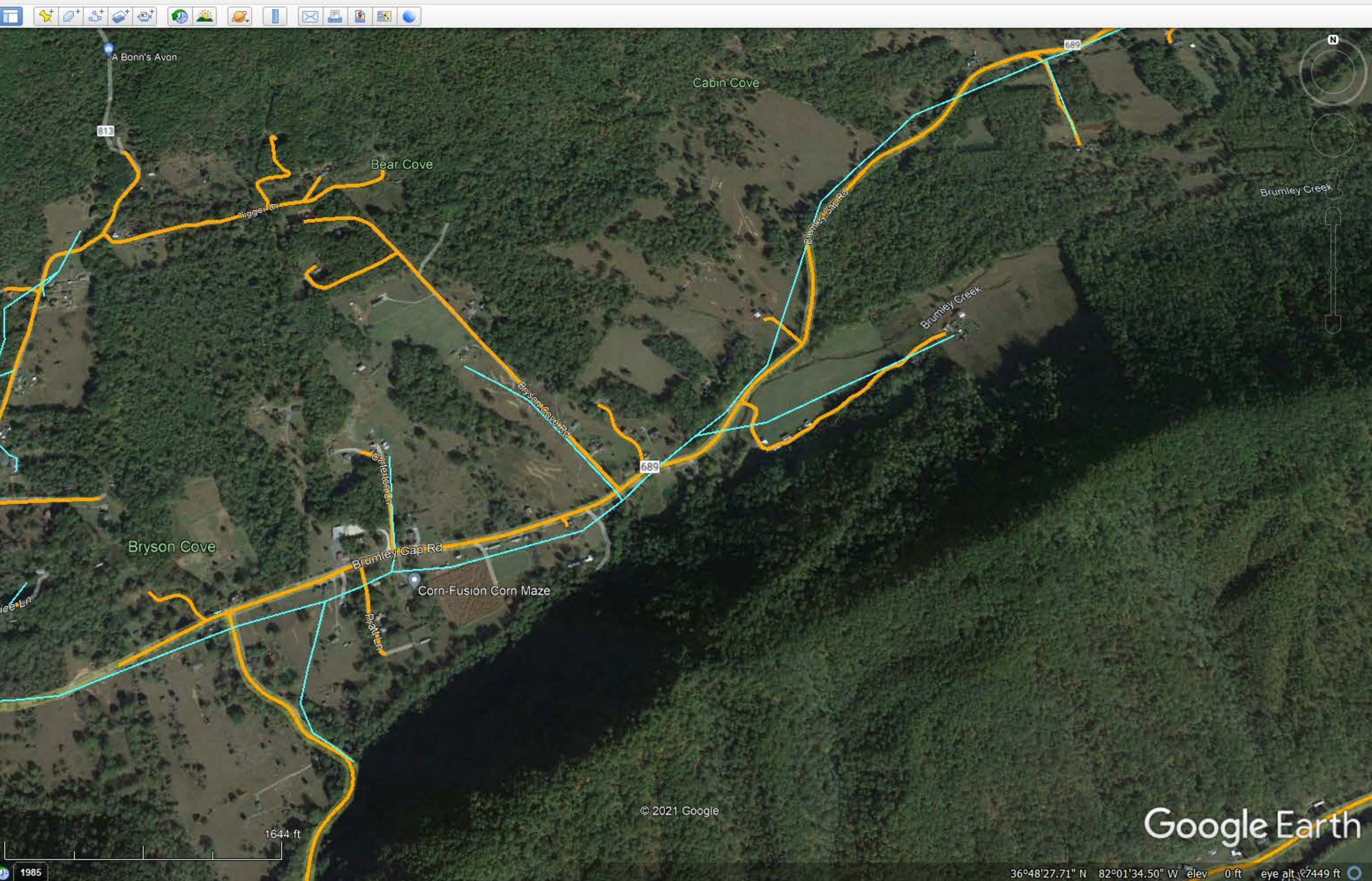
ex: Pizza near Clayville, NY [Get Directions](#) [History](#)

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

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 - 3D Buildings
 - Weather
 - Gallery
 - More
- Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
- Terrain



 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **HAYTERS GAP RD, 1, 24370**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

We're sorry, we couldn't find any service providers that service your address. Please check the form and try again or call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

HAYTERS GAP RD **1** **24370** [Get Connected](#) →

Search: Pizza near Clayville, NY

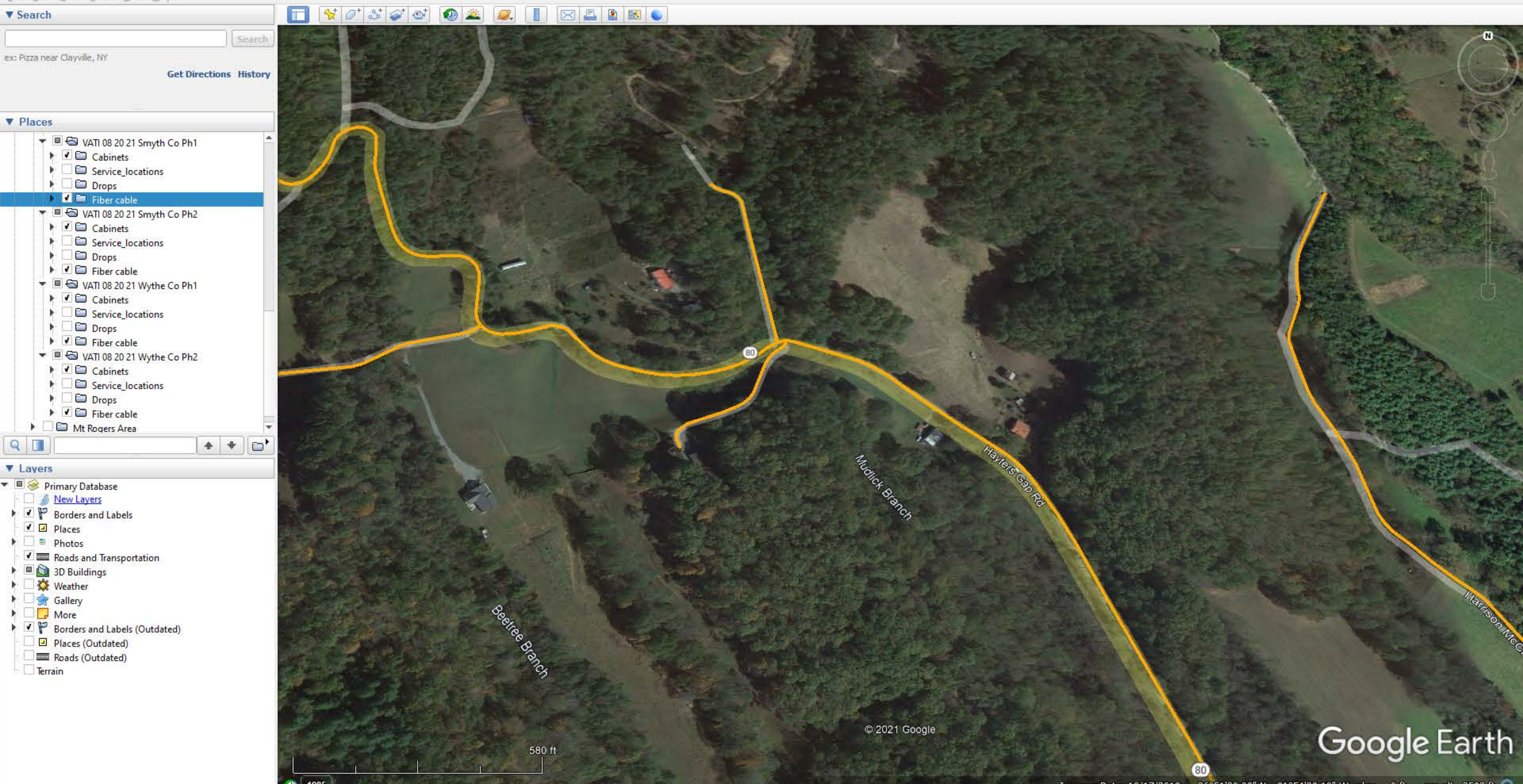
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



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Google Earth

Imagery Date: 10/17/2019 36°51'30.09" N 81°54'39.10" W elev 0 ft eye alt 2593 ft

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **AISTROP RD, 24370**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

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Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

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 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

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What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS **UNIT** **ZIP CODE**

4191 ADRIAN LN Unit 24370

! The address you entered could not be recognized.

[Continue](#)

Existing customer? [Shop Deals & Customize](#)

Google Earth Pro

File Edit View Tools Add Help

Search

ex: Pizza near Clayville, NY [Get Directions](#) [History](#)

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

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Imagery Date: 10/18/2015 36°52'56.59" N 81°50'09.05" W elev 0 ft eye alt 5111 ft

Google Earth

 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **FLINTROCK RD, 1, 24370**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.

Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

We're sorry, we couldn't find any service providers that service your address. Please check the form and try again or call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

Search

ex: Pizza near Clayville, NY

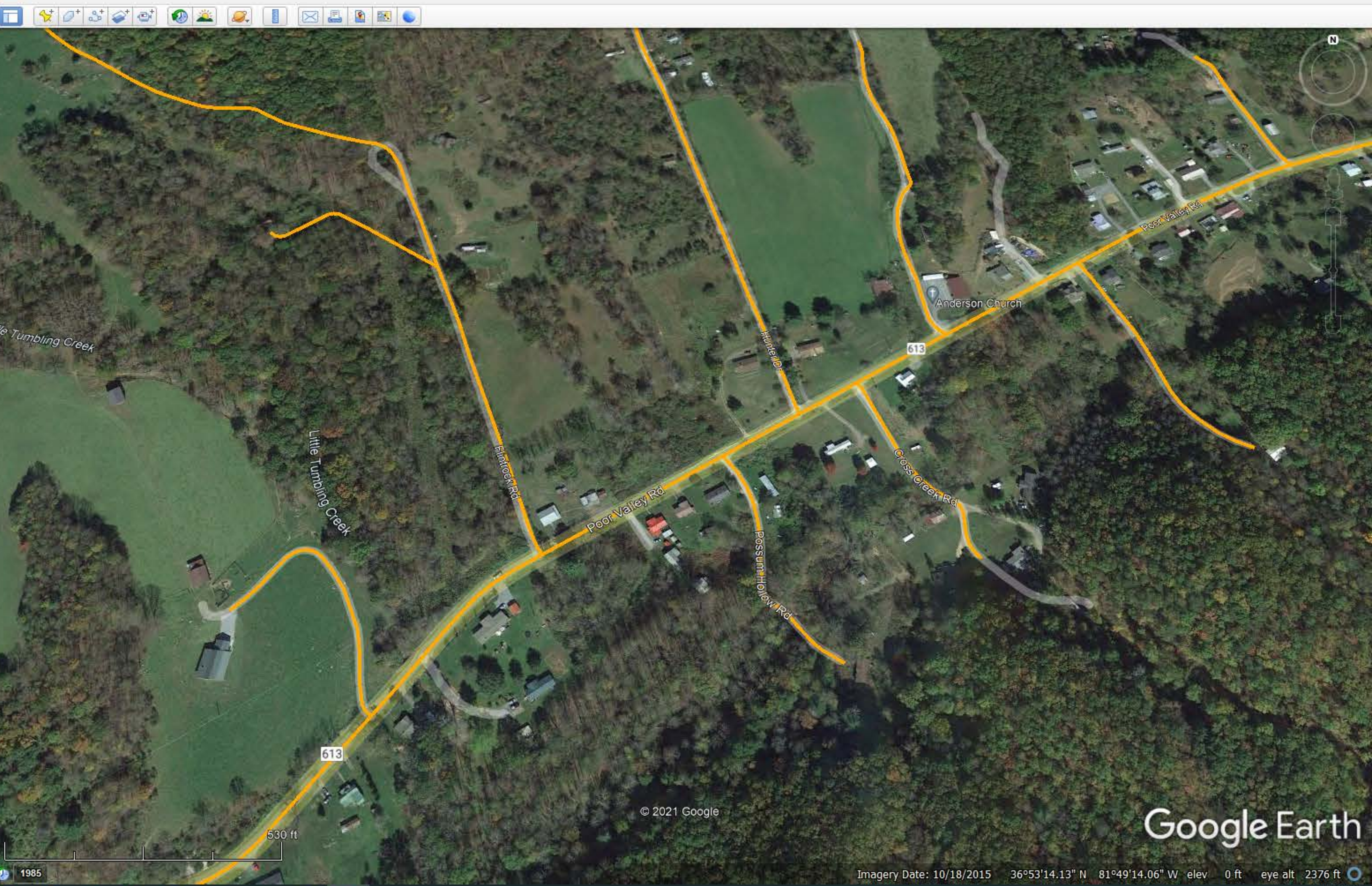
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
 - New Layers
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 - Roads and Transportation
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 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **13783 FALL HILL RD, 24210**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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Search

ex: Pizza near Clayville, NY

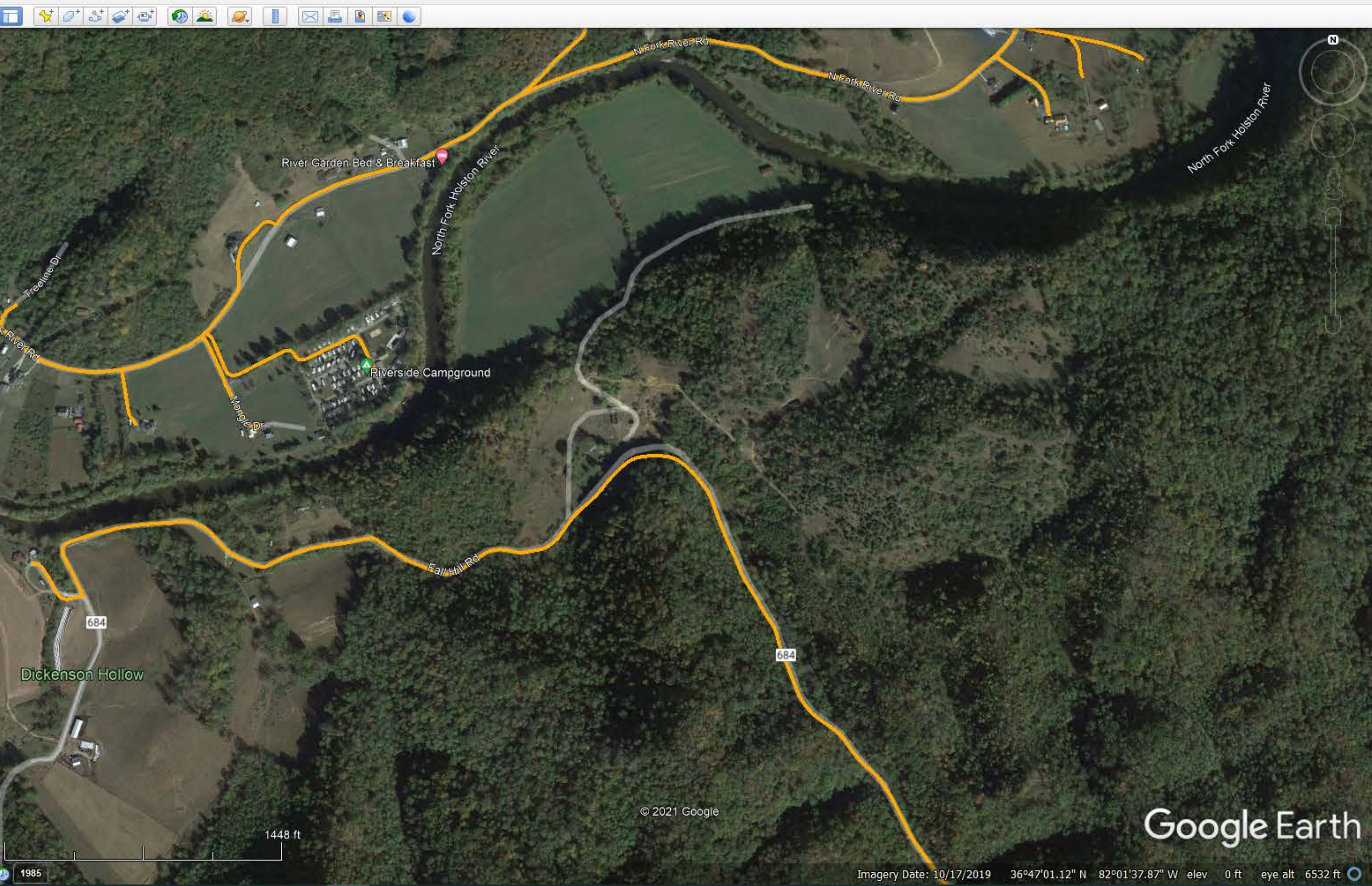
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers


- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain




 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **11143 MONGLE DR, 24210**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

 Please call toll-free: 1-855-718-0392 to get connected to the best TV, internet and phone services.

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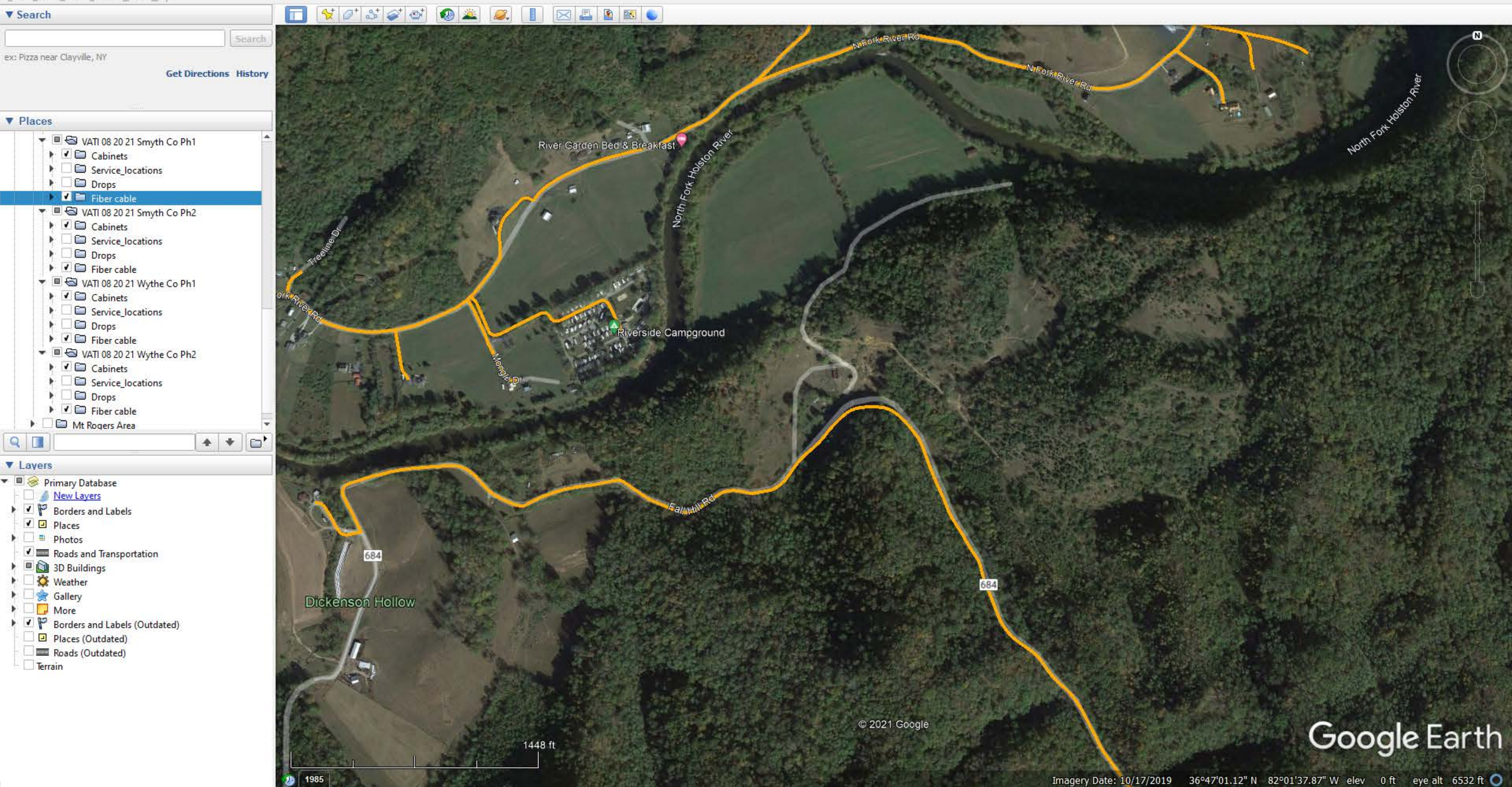
Search: Pizza near Clayville, NY | Get Directions | History

Places:

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers:

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **N FORK RIVER RD, 1, 24210**. To find a local provider, please contact SmartMove for assistance.



[Try a different address, including apartment number](#)

We need a bit more information.

Please enter your full address to see special offers from your service provider or call the SmartMove Hotline toll-free at 1-844-226-0592.

The house number you entered was not recognized. Please check and re-enter.

N FORK RIVER RD **1** **24210** [Get Connected](#) →

Or give us a call  **(844) 544-5181** powered by 


Search: Pizza near Clayville, NY

Places:

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers:

- Primary Database
 - New Layers
 - Borders and Labels
 - Places
 - Photos
 - Roads and Transportation
 - 3D Buildings
 - Weather
 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



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Imagery Date: 10/17/2019 36°47'54.60" N 81°59'51.97" W elev 0 ft eye alt 4524 ft

Google Earth

What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS	UNIT	ZIP CODE
11132 TOOLE CREEK RD	Unit	24210

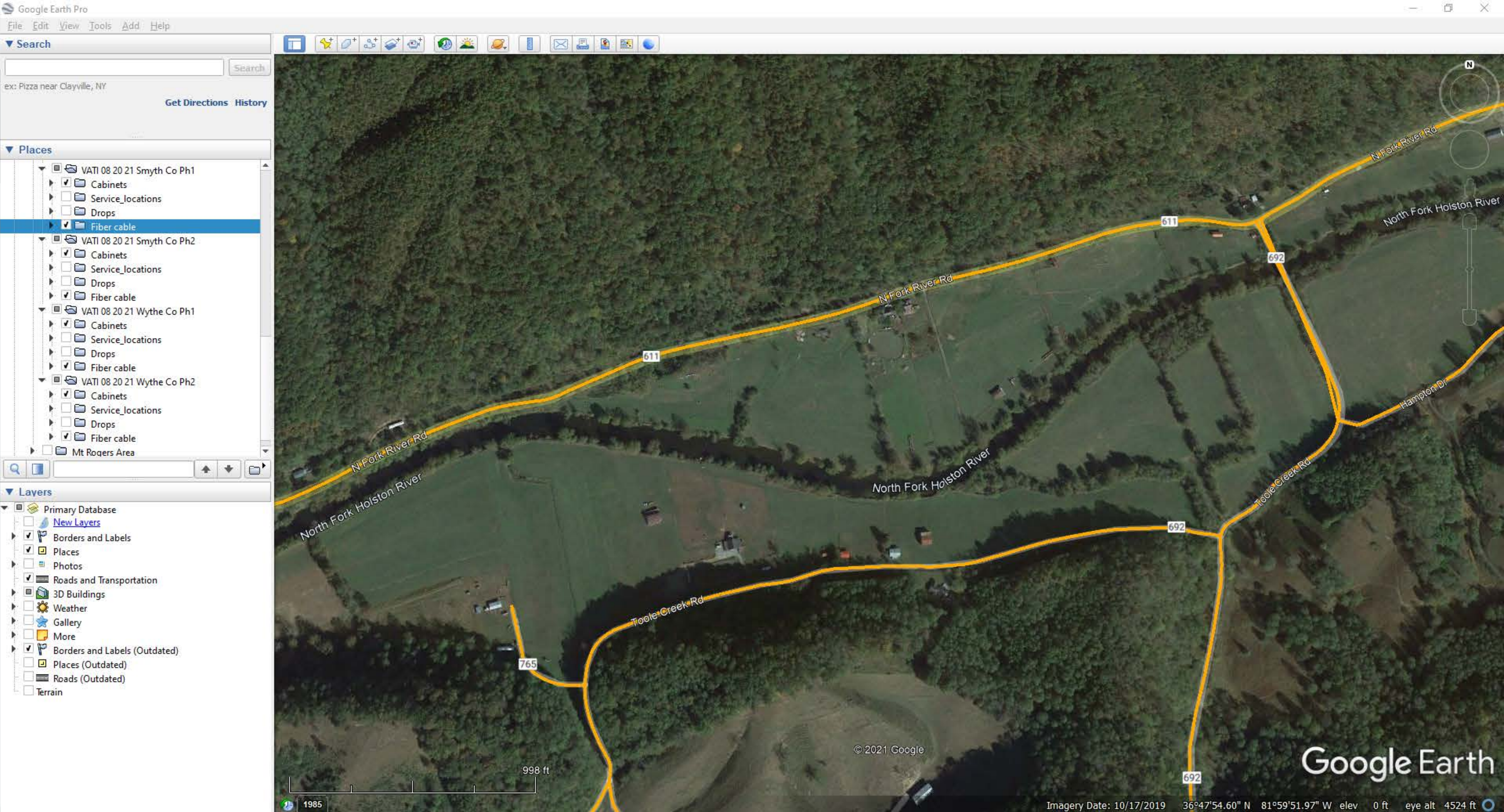
The address you entered could not be recognized.

[Continue](#)

Existing customer? [Shop Deals & Customize](#)

N FORK RIVER RD 1 24210 [Get Connected](#)

Or give us a call (844) 544-5181 powered by smartmove



What's your address?

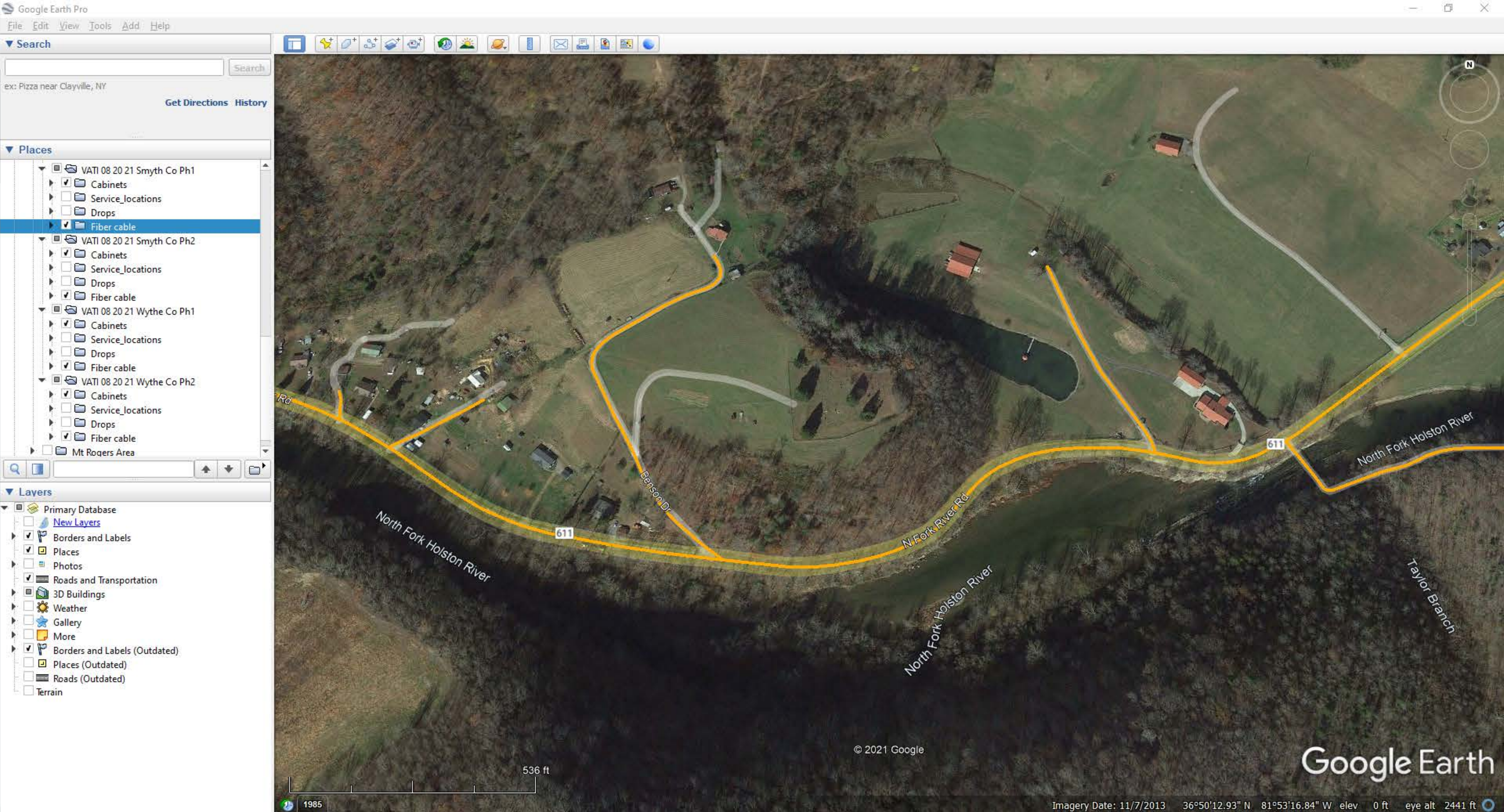
Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS **UNIT** **ZIP CODE**

! The address you entered could not be recognized.

[Continue](#)

Existing customer? [Shop Deals & Customize](#)



What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS	UNIT	ZIP CODE
riverbend rd, abingdon	Unit	24210

! The address you entered could not be recognized.

[Continue](#)

[Existing customer? Shop Deals & Customize](#)

N FORK RIVER RD 1 24210 [Get Connected](#)

Or give us a call (844) 544-5181 | powered by smartmove

Search
ex: Pizza near Clayville, NY | [Get Directions](#) [History](#)

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers

- Primary Database
- New Layers
- Borders and Labels
- Places
- Photos
- Roads and Transportation
- 3D Buildings
- Weather
- Gallery
- More
- Borders and Labels (Outdated)
- Places (Outdated)
- Roads (Outdated)
- Terrain

Map labels: North Fork Holston River, Big Creek, Rich Valley Rd, 611

Scale: 2459 ft | Imagery Date: 10/18/2015 | 36°50'40.80" N 81°51'30.95" W elev 0 ft eye alt 11201 ft



Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **31300 PEARL DR, 24370**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



Please call toll-free: **1-855-718-0392**
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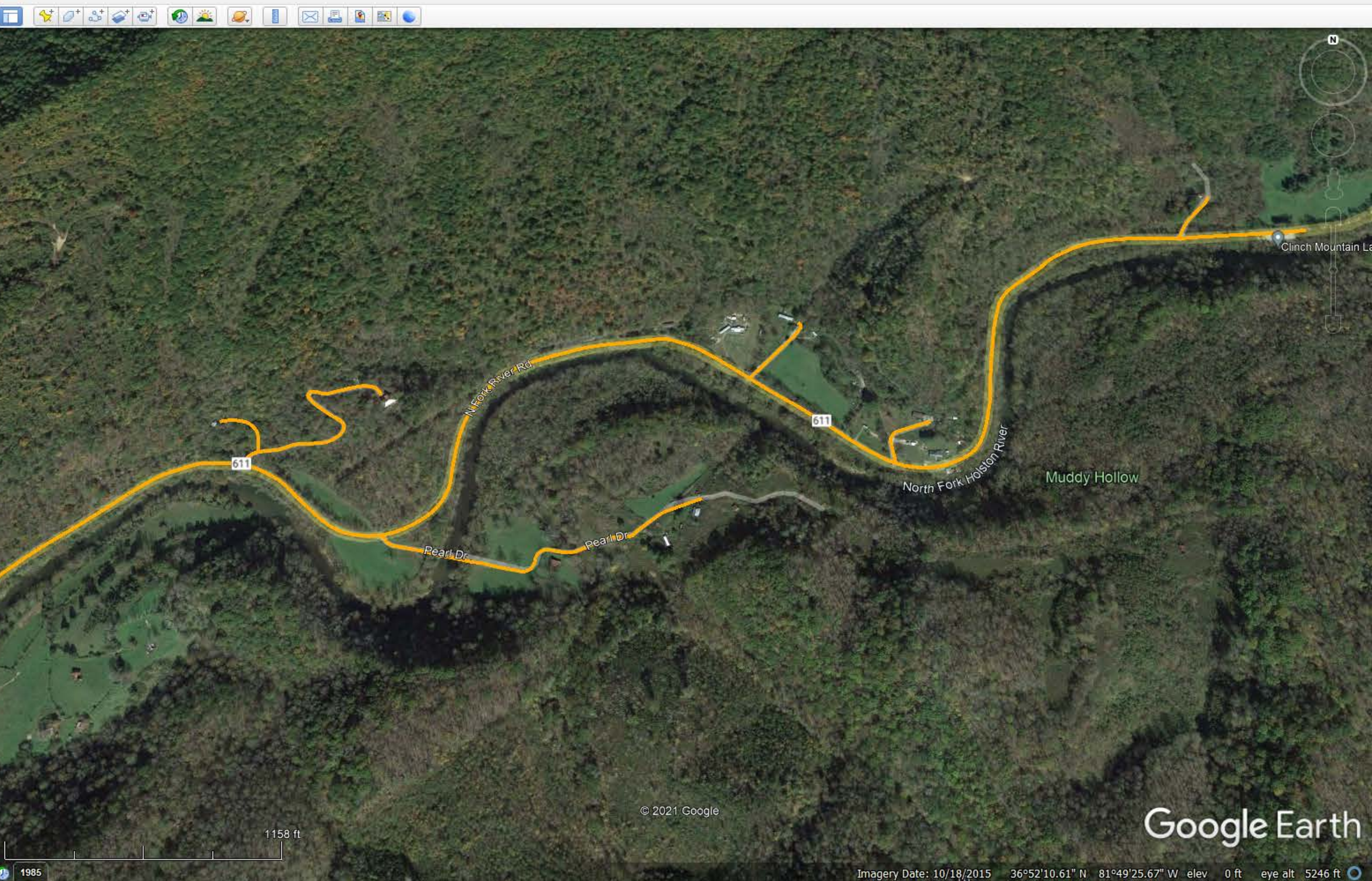
Search
ex: Pizza near Clayville, NY
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
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 - Drops
 - Fiber cable
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 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
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 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
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 - Places (Outdated)
 - Roads (Outdated)
 - Terrain





Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **12116 BOW HUNTER DR, 24210**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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Search

ex: Pizza near Clayville, NY [Get Directions](#) [History](#)

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
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 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
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 - Terrain



What's your address?

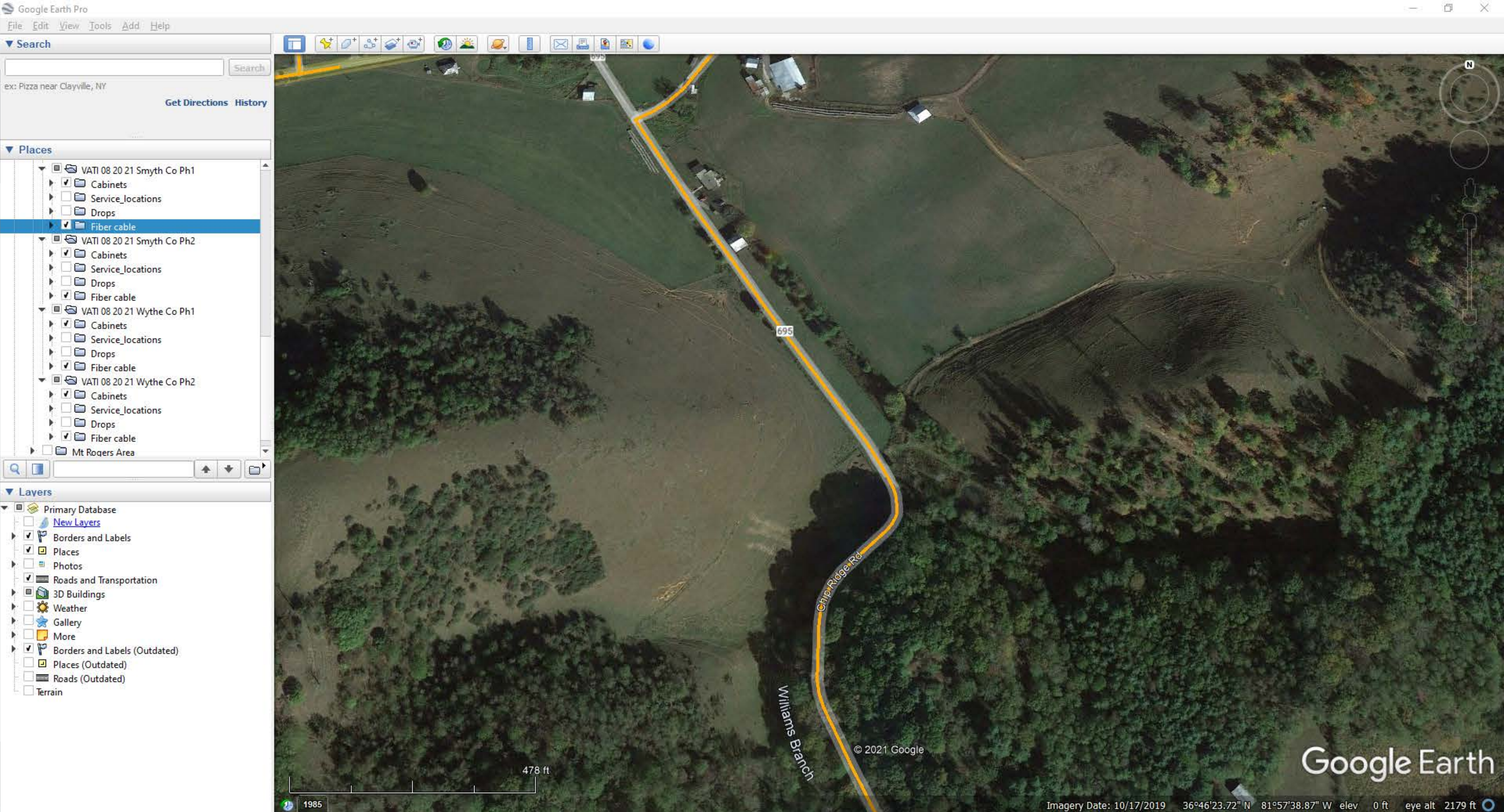
Great deals are just around the corner. Just tell us where you'd like Xfinity service.


STREET ADDRESS	UNIT	ZIP CODE
12081 CHIP RIDGE RD	Unit	24210

! The address you entered could not be recognized.

[Continue](#)


Existing customer? [Shop Deals & Customize](#)




 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **11047 MAIDEN CREEK RD, 24210**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)



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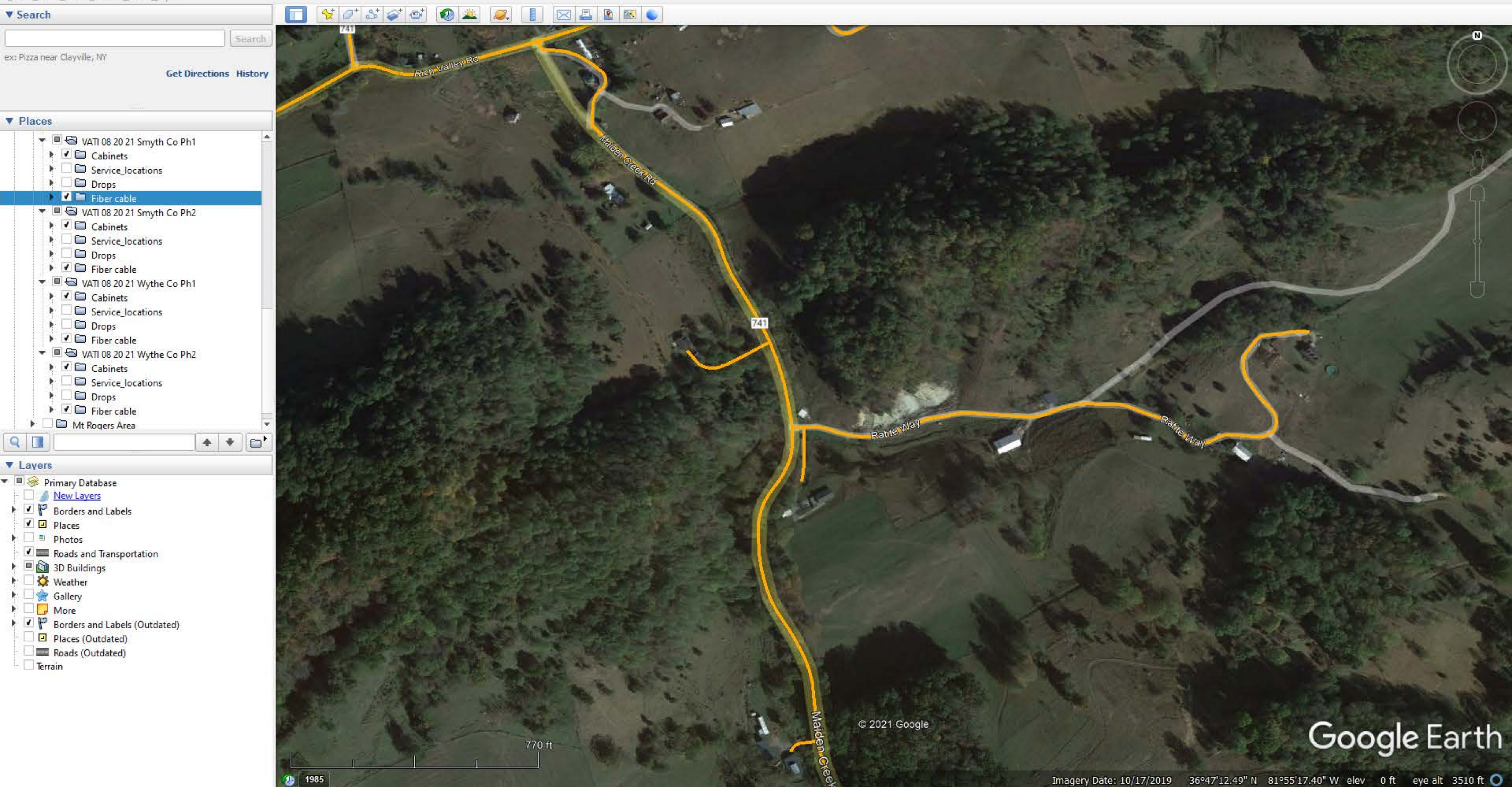
Search: Pizza near Clayville, NY

Places:

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- Mt Rogers Area

Layers:


- Primary Database
 - New Layers
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 - Photos
 - Roads and Transportation
 - 3D Buildings
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 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS	UNIT	ZIP CODE
26213 SHORTSVILLE RD	Unit	24210

 The address you entered could not be recognized.

[Continue](#)

Existing customer? [Shop Deals & Customize](#)

Google Earth Pro

Search: Pizza near Clayville, NY

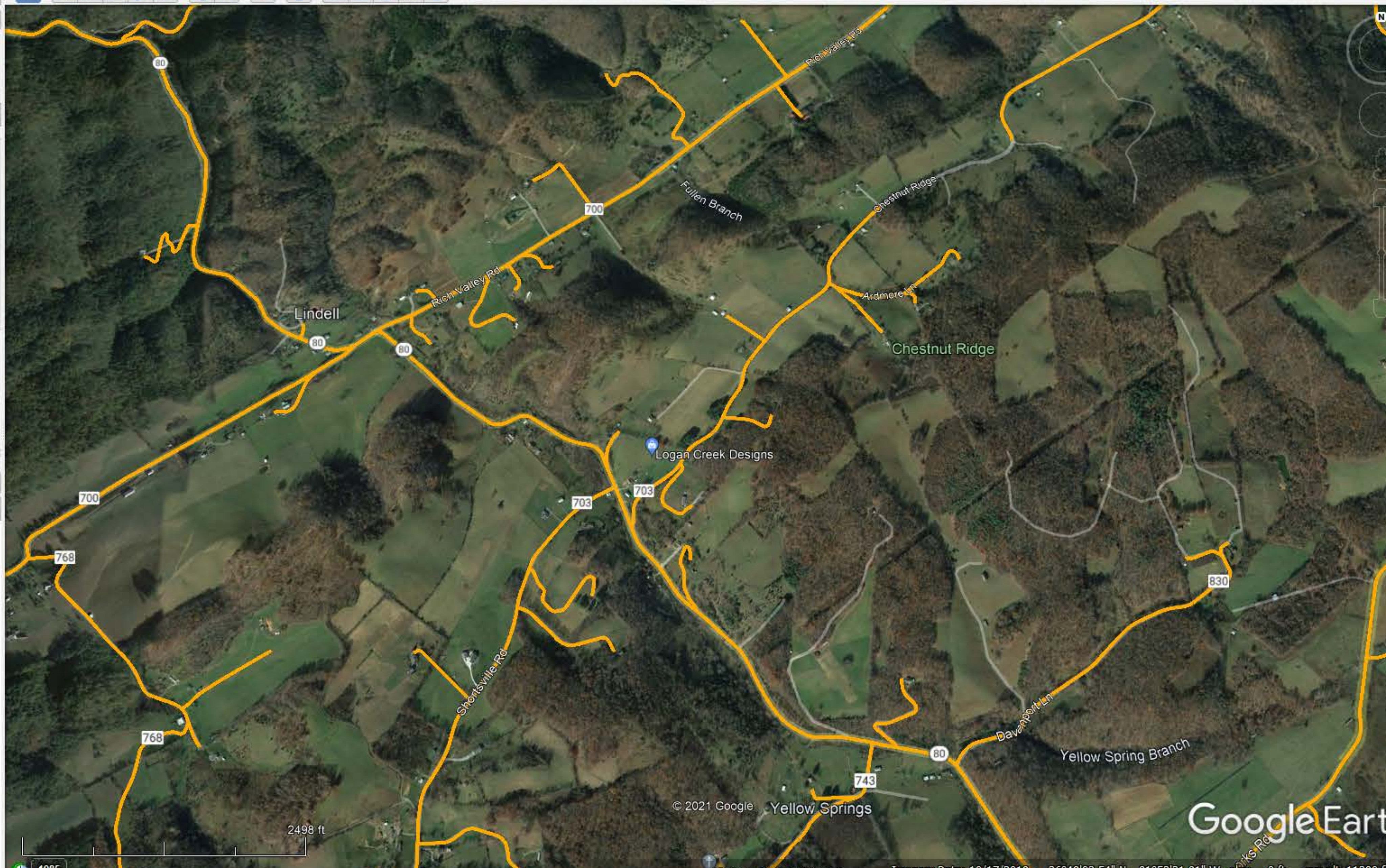
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
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 - Weather
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 - More
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 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



© 2021 Google Yellow Springs

Imagery Date: 10/17/2019 36°48'03.54" N 81°53'21.91" W elev 0 ft eye alt 11390 ft

Google Earth

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **27976 DAVENPORT LN, 24361**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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to get connected to the best TV, internet and phone services.

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Get new deals sent right to your inbox.

Email Address Zip Code

By entering your email address, you agree to receive marketing communications from Comcast via email.

Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Wythe Co Ph2
 - Cabinets
 - Service_locations
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 - Terrain

Map showing fiber optic routes in yellow over a satellite view of a rural area with roads like Davenport Ln, Old Saltworks Rd, and Yellow Spring Branch. Includes a scale bar and elevation data.

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **10390 COLLEGE DR, 24361**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

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Email Address Zip Code

By entering your email address, you agree to receive marketing communications from Comcast via email.

Search: Pizza near Clayville, NY

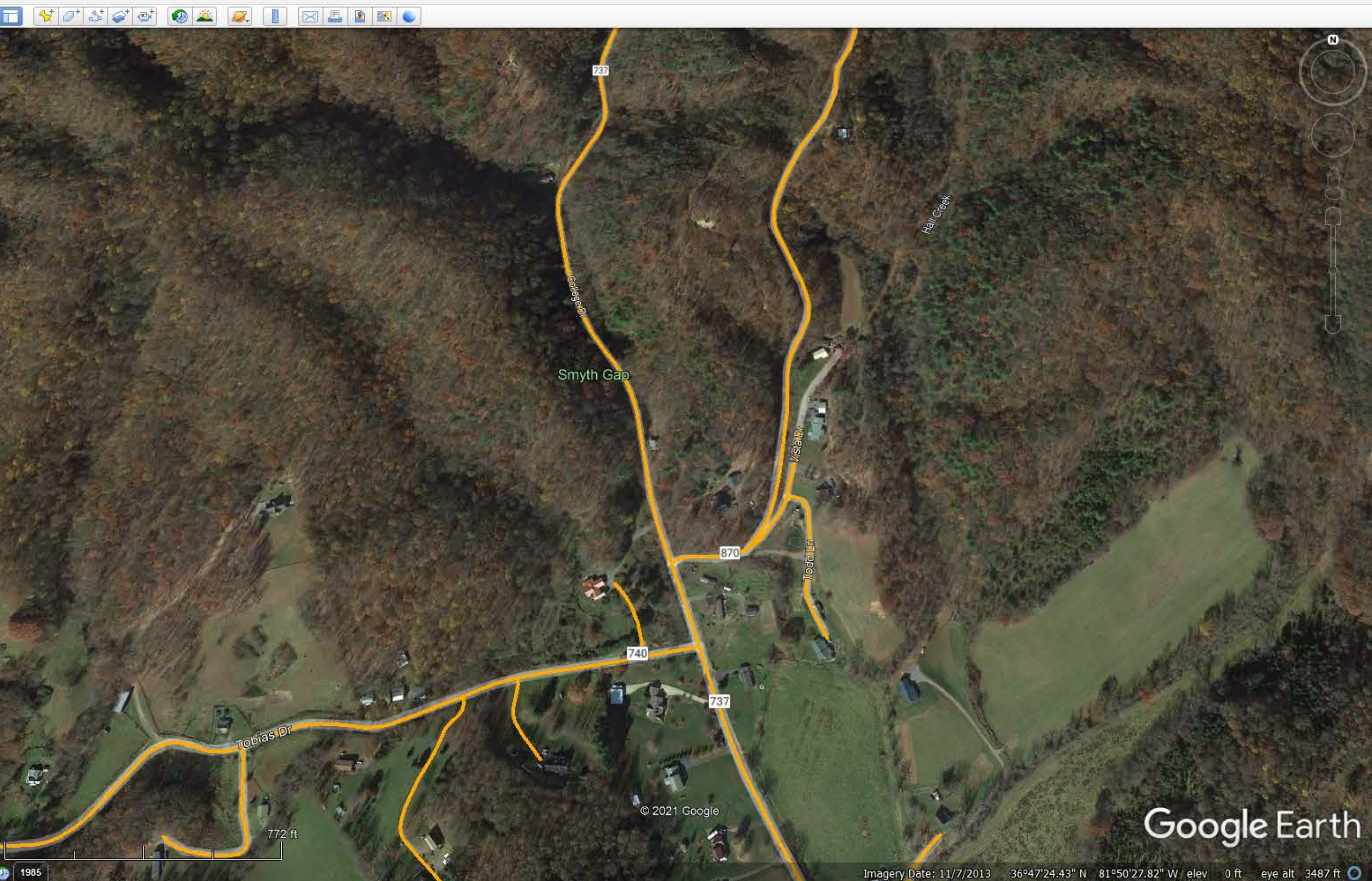
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
 - Service_locations
 - Drops
 - Fiber cable
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 - Fiber cable
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 - Places (Outdated)
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 - Terrain



What's your address?

Great deals are just around the corner. Just tell us where you'd like Xfinity service.

STREET ADDRESS	UNIT	ZIP CODE
11168 MOUNT CALM DR	Unit	24361

The address you entered could not be recognized.

[Continue](#)

Existing customer? [Shop Deals & Customize](#)

Google Earth Pro

Search: Pizza near Clayville, NY
Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
 - Cabinets
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 - Places (Outdated)
 - Roads (Outdated)
 - Terrain

© 2021 Google
Imagery Date: 11/7/2013 36°47'23.66" N 81°48'58.69" W elev 0 ft eye alt 5118 ft

Google Earth

Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **32494 MAYBERRY DR, 24340**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

xfinity

Please call toll-free: 1-855-718-0392
to get connected to the best TV, internet and phone services.

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Search: Pizza near Clayville, NY

Get Directions History

Places

- VATI 08 20 21 Smyth Co Ph1
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 - Service_locations
 - Drops
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- VATI 08 20 21 Smyth Co Ph2
 - Cabinets
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 - Roads (Outdated)
 - Terrain

Google Earth

© 2021 Google

1272 ft

1985

36°49'35.98" N 81°47'33.92" W elev 0 ft eye alt 5785 ft

 Unfortunately, Xfinity service is not available at this address.

We are unable to locate deals for **HANGER LN, 1, 24340**. To find a local provider, please contact SmartMove for assistance.

[Try a different address, including apartment number](#)

We couldn't find an online match for your address.
Please call the SmartMove Hotline toll-free at 1-844-394-4910 to find your service provider...

If you want to search another address, please enter your info below.

We're sorry, we couldn't find any service providers that service your address. Please check the form and try again or call the SmartMove Hotline at 1-844-394-4910 to find your closest service provider.

HANGER LN **1** **24340** [Get Connected](#) →

Search: Pizza near Clayville, NY

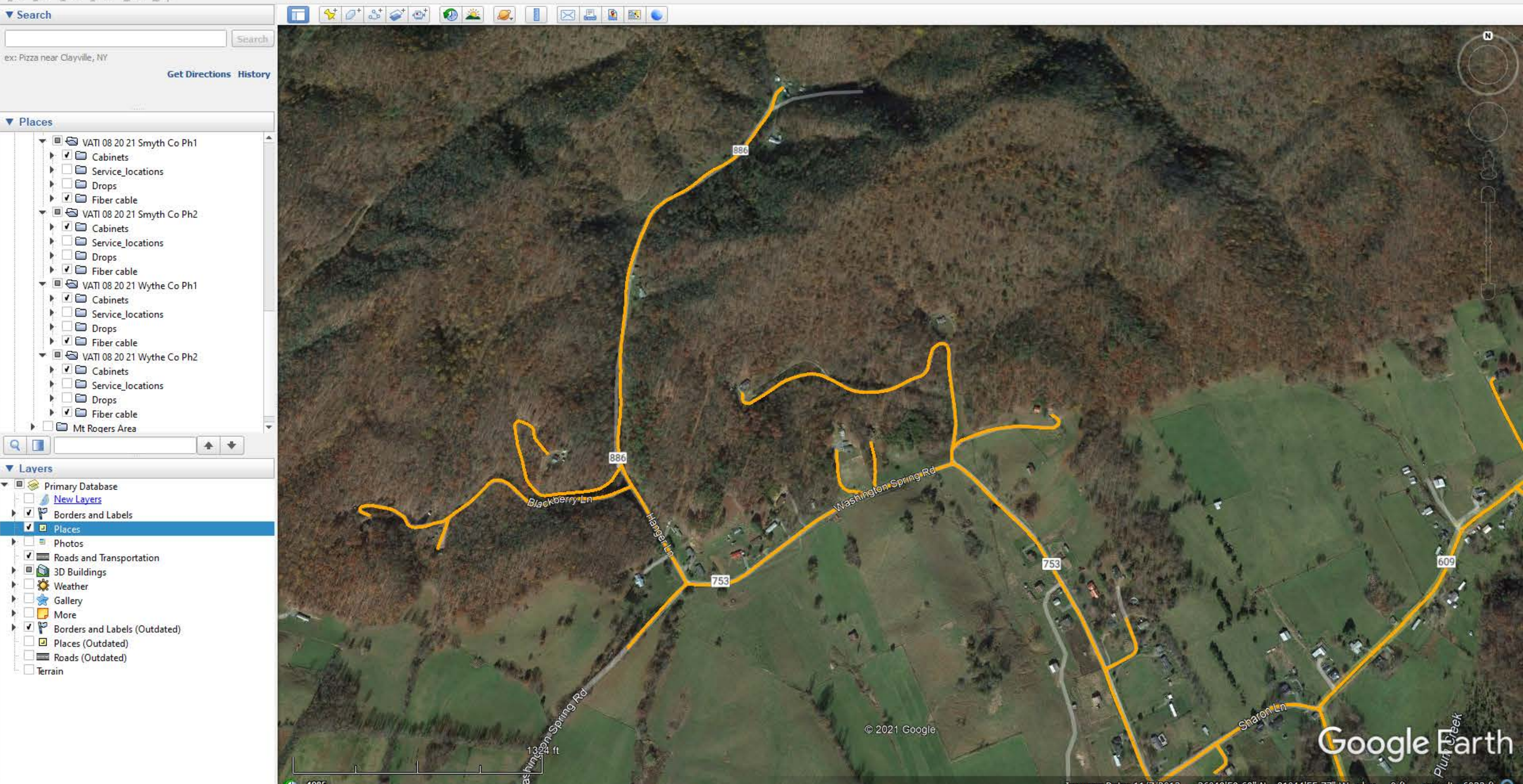
Get Directions History

Places

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 - Gallery
 - More
 - Borders and Labels (Outdated)
 - Places (Outdated)
 - Roads (Outdated)
 - Terrain



© 2021 Google

Imagery Date: 11/7/2013 36°48'59.69" N 81°44'55.77" W elev 0 ft eye alt 6023 ft

Google Earth

2022 Virginia Telecommunication Initiative (VATI) Passing Form

Type of Passings	Total Number of Passings in the Project Area ¹	Passings in the Project Area, without Special Construction Costs Required ²	Passings with Special Construction Costs budgeted in the Application ³	Number of Passings with Speeds at 10/1 or below in Project Area ⁴
Residential	27330	0	27330	24739
Businesses (non-home based)	287	0	287	287
Businesses (home-based)	22	0	22	22
Community Anchors	138	0	138	138
Non-residential	236	0	236	236
Total	28013	0	28013	25422

Note: The Total Number of Passings **MUST** be equal to the Residential, Business (non-home based), Non-residential and Community Anchors sum.

Note: Do not include passings in RDOF awarded areas that were awarded to the co-applicant; these passings should be included in the RDOF Passings Form. Passings included in this application in RDOF awarded areas that were not awarded to the co-applicant, unless successfully challenged, are considered unserved and should be counted as passings in this form.

¹The total number of structures in the project area that can receive service. See definition of passing below for more detail.

²The number of structures in the project area that will not require special construction costs to provide service to. These passings fall within the broadband provider's standard service connection drop length and do not require nonstandard equipment or any additional fees above normal service connection fees required to provide broadband access to a premise.

³The number of structures in the project area with all construction costs budgeted in the application. These passings will not require any additional special construction costs beyond those budgeted for in the VATI application.

⁴The number of structures in the project area that do not have access to internet at speeds of at least 10 mbps download and 1mbps upload.

Definitions

Passing – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

Business – An organization or entity that provides goods or services in order to generate profit. Businesses based in residential homes can count if they are a registered business (BPOL, LLC, etc.).



Community Anchor - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater use of broadband service by vulnerable populations, including low-income, unemployed, and the aged.

Non-Residential Passing – places of worship, federal, state, or local facilities or other potential customers that are neither a residence, business or a community anchor as defined above.

2022 Mt Rogers VATI

	Primary Column	At Risk	Status	Duration	Start Date	End Date	Project Budget
1					10/01/22	06/30/24	
2	PLANNING						
3	Planning Meeting w/ Department		In Progress	10 Days	09/01/21	09/10/21	
4	KMZ of the Project		Complete	10 Days	08/30/21	09/09/21	
5	Contact Rainbow		Not Started		07/01/22	n/a	
6	Field Engineering						
7	Field Data Collection		Not Started	1 year	07/01/22	10/31/23	
8	Site Survey		Not Started		07/01/22	10/31/23	
9	Premitting Applications		Not Started		07/01/22	10/31/23	
10	Pole Data		Not Started		07/01/22	10/31/23	
11	Make Ready Summary		Not Started		07/01/22	10/31/23	
12	Easements Identified		Not Started		07/01/22	10/31/23	
13	Facilities						
14	Construction Print		Not Started		07/01/22	10/31/23	
15	Splice Package		Not Started		07/01/22	10/31/23	
16	Rainbows BOM		Not Started		07/01/22	10/31/23	
17	Order Materials		Not Started		07/01/22	10/31/23	
18	Feed Fiber		Not Started		07/01/22	10/31/23	
19	POP Equipment		Not Started		07/01/22	10/31/23	
20	Estimate Workbook		Not Started		07/01/22	10/31/23	
21	Job Approval		Not Started		07/01/22	10/31/23	
22	Permits & Make-Ready						
23	Permit Application & Invoicing		Not Started		07/01/22	10/31/23	
24	Towns or City Permit		Not Started		07/01/22	10/31/23	
25	VDOT Permits		Not Started		07/01/22	10/31/23	
26	Make Ready Construction		Not Started		07/01/22	10/31/23	

	Primary Column	At Risk	Status	Duration	Start Date	End Date	Project Budget
27	RXR		Not Started		07/01/22	10/31/23	
28	AEP		Not Started		07/01/22	10/31/23	
29	Verizon		Not Started		07/01/22	10/31/23	
30	PVEC		Not Started		07/01/22	10/31/23	
31	ODP		Not Started		07/01/22	10/31/23	
32	Construction Task						
33	Review Job Package w/ Contractor		Not Started		10/01/22	10/31/23	
34	Materials Request		Not Started		07/01/22	10/31/23	
35	Stage Job Materials		Not Started		07/01/22	10/31/23	
36	Assign a Start/Finish Date		Not Started		08/01/22	10/31/23	
37	Equipment for POP installed		Not Started		08/01/22	05/31/24	
38	Make-Ready Complete		Not Started		08/01/22	05/31/24	
39	Clearing		Not Started		08/01/22	05/31/24	
40	Total Strand Built		Not Started		08/01/22	05/31/24	
41	Total Fiber Lashed		Not Started		08/01/22	05/31/24	
42	Cabinets Set		Not Started		08/01/22	05/31/24	
43	Underground Bore		Not Started		08/01/22	05/31/24	
44	Underground Trench		Not Started		08/01/22	05/31/24	
45	Vault Set		Not Started		08/01/22	05/31/24	
46	Anchors Installed		Not Started		08/01/22	05/31/24	
47	Road Crossing		Not Started		08/01/22	05/31/24	
48	Feed Fibers Spliced		Not Started		08/01/22	05/31/24	
49	Cans Spliced		Not Started		08/01/22	05/31/24	
50	NAPS Installed		Not Started		08/01/22	05/31/24	
51	Cabinet OTDR Shots		Not Started		08/01/22	05/31/24	
52	Splicing Pics		Not Started		08/01/22	05/31/24	
53	Redlines		Not Started		08/01/22	05/31/24	
54	E7 Install		Not Started		08/01/22	05/31/24	

	Primary Column	At Risk	Status	Duration	Start Date	End Date	Project Budget
55	Cabinet Splitters Installed		Not Started		08/01/22	05/31/24	
56	Close Out						

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (“MOU”) is made and entered into effective this August __, 2021 (“Effective Date”) by and between Mount Rogers Planning District Commission, with offices located at 1021 Terrace Drive, Marion, Virginia 24354 (“Mount Rogers”), and Point Broadband Fiber Holding, LLC, with offices located at 1791 O.G. Skinner Drive, Suite A, West Point, Georgia 31833 (“Point Broadband”). Collectively Mount Rogers and Point Broadband may be referred to below as the Parties and individually referred to as Party.

WHEREAS, Mount Rogers and Point Broadband desire to cooperate with each other as co-applicants for a Virginia Telecommunication Initiative (“VATI”) grant referred to herein as the Mount Rogers Universal Broadband Expansion Project;

NOW, THEREFORE, in recognition of their mutual interests and desires, the Parties do hereby agree to the following:

INTENT: The Parties will collaborate as co-applicants on a VATI grant to support the building of fiber in the area identified on the map attached hereto as Exhibit A and incorporated by reference herein.

Upon grant award, Mount Rogers shall act as the conduit of funds for the Mount Rogers Broadband Expansion Project. Point Broadband shall build and solely own the fiber installed for, provide the labor necessary for, and operate and maintain the fiber and customer base for the Mount Rogers Broadband Expansion Project.

This MOU is not intended to create a binding contractual relationship between the Parties. The Parties agree that it would be in their best interests to negotiate a binding agreement should a grant for the Mount Rogers Broadband Expansion Project be awarded to the Parties by VATI.

EXPIRATION: This MOU expires upon the earlier occurrence of (i) two (2) years from the Effective Date above; (ii) execution by the Parties of a mutually agreed upon and fully negotiated binding agreement; (iii) an official announcement by VATI that the grant opportunity has been canceled; or (iv) the Parties do not receive a grant award from VATI.

ENTIRE AGREEMENT: The foregoing paragraphs and references contain the entire MOU between the Parties and supersede any previous understandings, commitments, or agreements (oral or written) with respect to the Mount Rogers Broadband Expansion Project referenced herein. Neither this MOU as a whole, or any single portion thereof, shall be deemed binding upon the Parties, unless and until incorporated into a binding agreement properly executed by representatives of the Parties, each acting within the scope of a properly authorized delegation of authority. Notwithstanding the foregoing, the representatives of the Parties executing this document warrant by their signatures that they will act in good faith and diligence to achieve the intent manifested herein.

The remainder of this page is intentionally blank. The next page is the signature page.

The Parties hereto have caused this MOU to be executed by their authorized representatives as set forth below.

Mount Rogers Planning District Commission

By:

Name:

Title:

Date:

Point Broadband Fiber Holding, LLC

By:

Name:

Title:

Date:

Exhibit A

Map

VATI FUNDING SOURCES TABLE

Please fill in the chart below with a description of the project funding source (local, federal, state, private, other), the amount from that source, the percentage of total project funding that source represents, and a description of the current status of the funds (pending, secured, etc.).

Source	Amount	%	Status
REQUESTED VATI	\$66,446,228	66.41%	Pending
POINT BROADBAND	\$33,615,600	33.59%	SECURED
TOTAL	\$100,061,828	100 %	

Point Broadband, LLC and Subsidiaries
Consolidated Balance Sheets
At December 31, 2020 and 2019

Assets

	2020	2019
		(Restated)
Current Assets		
Cash and cash equivalents	\$ 11,759,546	\$ 6,318,831
Accounts receivable		
Customers, net of allowance	2,640,297	2,284,983
of \$582,448 and \$434,067, respectively		
Other	1,211,918	2,451,121
Prepayments and other	868,160	925,469
Total current assets	16,479,921	11,980,404
Noncurrent Assets		
Goodwill, net	15,688,969	8,974,465
Other intangible assets, net	33,375,864	6,836,652
Interest rate swap		227,865
Other assets	3,999,709	1,666,691
Total noncurrent assets	53,064,542	17,705,673
Property, Plant, and Equipment		
Telecommunications plant in service	139,959,743	86,897,573
Construction and premise inventory	8,944,047	1,495,964
	148,903,790	88,393,537
Less accumulated depreciation	28,100,794	14,069,039
Net property, plant, and equipment	120,802,996	74,324,498
Total assets	\$ 190,347,459	\$ 104,010,575

The accompanying notes are an integral part of these consolidated financial statements.

Liabilities and Shareholders' Equity

	2020	2019 (Restated)
Current Liabilities		
Current maturities on notes payable	\$ 227,710	\$ 251,434
Current maturities on capital lease obligations	214,206	164,743
Current maturities on Paycheck Protection Program loan	1,109,982	
Accounts payable - trade	7,034,104	2,764,120
Unearned revenue	1,791,213	1,819,011
Customer deposits and other customer prepayments	601,338	426,794
Accrued liabilities	5,522,400	3,420,209
Total current liabilities	<u>16,500,953</u>	<u>8,846,311</u>
Noncurrent Liabilities		
Notes payable, net of current maturities	94,814,872	60,042,581
Less debt issuance costs	3,164,063	1,265,567
Capital lease obligations, net of current maturities	597,236	531,263
Paycheck Protection Program loan, net of current maturities	547,975	
Interest rate swap	878,558	
Unearned revenue	642,493	485,133
Total noncurrent liabilities	<u>94,317,071</u>	<u>59,793,410</u>
Total liabilities	<u>110,818,024</u>	<u>68,639,721</u>
Shareholders' Equity		
Common stock	6,423,480	123,480
Contributed capital - Series A, B, and C	82,333,294	47,333,290
Treasury stock	(487,500)	(397,500)
Accumulated deficit	(8,106,855)	(10,249,142)
Additional paid-in capital	(2,477,520)	(2,477,520)
Accumulated other comprehensive income (loss)	(878,558)	227,865
Total Point Broadband, LLC shareholders' equity	<u>76,806,341</u>	<u>34,560,473</u>
Noncontrolling interest	2,723,094	810,381
Total shareholders' equity	<u>79,529,435</u>	<u>35,370,854</u>
Total liabilities, noncontrolling interest, and shareholders' equity	<u>\$ 190,347,459</u>	<u>\$ 104,010,575</u>



Smyth County, Virginia
121 Bagley Circle, Suite 100
Marion, VA 24354

Atkins District
Chilhowie District
North Fork District
Park District
Royal Oak District
Rye Valley District
Saltville District

Charles E. Atkins
Michael L. Sturgill
Charles P. Stevenson
Kristopher S. Ratliff, DPh
Judy Wyant
Lori H. Deel
Roscoe D. Call

County Administrator
Assistant County Administrator

Shawn M. Utt
Alicia Richardson

September 10, 2021

Aaron Sizemore, Executive Director
Mount Rogers Planning District Commission
1021 Terrace Drive
Marion, VA 24354

RE: Letter of Support – VATI 2021 Smyth, Wythe and Washington County Regional Application

Mr. Sizemore:

Smyth County proudly supports the submission of a regional partnership and joint application to the Virginia Department of Housing and Community Development (DHCD) Virginia Telecommunications Initiative (VATI) program. Through the installation of Fiber-To-The-Home (FTTH) services, this proposed project plans to bring high-speed broadband internet service to both underserved and unserved areas of Smyth, Wythe, and Washington counties.

Smyth County has been developing a partnership and VATI grant application with a fixed-wireless provider to extend service to at least 1,000 underserved or unserved residences in our community. However, Smyth County believes the regional effort and application submitted by the Mt. Rogers Planning District Commission (PDC) will be of a greater impact and we desire to be a strong partner in those efforts in order to provide residents of all counties access to the fastest and most reliable broadband service.

The VATI program not only assists localities in connecting to vital infrastructure, but it also enables counties like ours to continue to innovate; creating strong, vibrant and competitive communities that succeed. This proposed regional project will achieve just that and in-turn allows the Commonwealth to achieve success too! Smyth County has the ultimate confidence that this regional application will foster the core competencies of the VATI program and believes it will support the Commonwealth's goal of universal broadband.

With a successful regional application, Smyth County will be able to provide its citizens with broadband internet services that will grow rural Southwest Virginia in many ways. Once considered a luxury, this potential broadband expansion will provide essential needs like; telehealth, virtual education and e-commerce to residents and will provide vital opportunities to families and businesses who desperately need these services. Smyth County is pleased to offer its support to these efforts.

Sincerely,

Shawn M. Utt
County Administrator



Stephen D. Bear
County Administrator

County Administrator's Office

340 South Sixth Street
Wytheville VA 24382-2598
Telephone (276) 223-4500
Fax (276) 223-4515

September 7, 2021

Aaron Sizemore, Executive Director
Mount Rogers Planning District Commission
1021 Terrace Drive
Marion, VA 24354

RE: Letter of Support - VATI 2021 Smyth, Wythe and Washington County Regional Application

Mr. Sizemore:

Wythe County supports the submission of a Wythe, Smyth and Washington County joint grant application to the Virginia Department of Housing and Community Development's (DHCD) Virginia Telecommunications Initiative (VATI) program. The proposed project plans to bring high-speed broadband Internet service to the unserved and underserved areas of Smyth, Wythe and Washington County through installation of Fiber To The Home (FTTH) service.

Wythe County has been developing a partnership and VATI grant application with a Fixed Wireless provider to extend service to over 2,000 underserved residences in our community. While the PDC application could conflict with that application, Wythe County desires to be a part of a strong regional effort to give all our residents the fastest, most resilient and reliable access possible to broadband service.

VATI strives to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on modern communications infrastructure. This proposed regional project is innovative and will help the Commonwealth achieve those goals.

Broadband internet service expansion in rural Southwest Virginia will grow educational, health services, business, and public safety opportunities to families who need these services now, when the importance of such utilities has never been greater. Wythe County is pleased to lend its support to these efforts.

Sincerely,

Stephen D. Bear
County Administrator



COUNTY OF WASHINGTON, VIRGINIA
COUNTY GOVERNMENT CENTER
1 GOVERNMENT CENTER PLACE, SUITE A
ABINGDON, VIRGINIA 24210

COUNTY ADMINISTRATOR
JASON N. BERRY

OFFICE OF COUNTY ADMINISTRATOR

September 13, 2021

Aaron Sizemore
Executive Director
1021 Terrace Drive
Marion, VA 24354

RE: Letter of Support - VATI 2021 Smyth, Wythe and Washington County Regional Application

Dear Mr. Sizemore,

Washington County supports the submission of a Smyth, Wythe and Washington County joint grant application to the Virginia Department of Housing and Community Development's (DHCD) Virginia Telecommunications Initiative (VATI) program. The proposed project, plans to bring high speed broadband internet service to the underserved areas of Smyth, Wythe and Washington County.

The goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on communications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth to achieve those goals.

The expansion of broadband internet service in rural, Southwest Virginia will expand educational, health services, business, and public safety opportunities to families who need these services most in a moment in time when the importance of such utilities has never been greater. It is for these reasons that Washington County wishes to voice their support for this project.

Sincerely,

Jason N. Berry
Washington County Administrator

United States Senate
WASHINGTON, DC 20510-4606

COMMITTEES
FINANCE
BANKING, HOUSING, AND
URBAN AFFAIRS
BUDGET
INTELLIGENCE
RULES AND ADMINISTRATION

July 27, 2020

Mr. Erik Johnston
Director
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219-2430

Dear Mr. Johnston,

I write today in support of Wythe, Washington, and Smyth County's joint grant application to the Virginia Department of Housing and Community Development's (DHCD) Virginia Telecommunications Initiative (VATI) program. I understand the proposed project plans to bring high speed broadband internet service to the underserved areas of Wythe, Smyth and Washington Counties.

To combat the effects of school closures and the challenges of virtual learning due to the COVID-19 pandemic, the Counties are requesting funding to ensure that students and their families have efficient access to the internet. The expansion of broadband internet service in rural, Southwest Virginia would also expand education, health services, business, and public safety opportunities.

I ask that you give this proposal every appropriate consideration. Should you or your staff have any questions, please contact Bianca Casper at 804-775-2314 or bianca_casper@warner.senate.gov.

Thank you for your service on behalf of my constituents.

Sincerely,



MARK R. WARNER
United States Senator

MRW/bc

180 WEST MAIN STREET
ABINGDON, VA 24210
PHONE: (276) 628-8158

101 WEST MAIN STREET
SUITE 7771
NORFOLK, VA 23510
PHONE: (757) 441-3079

919 EAST MAIN STREET
SUITE 630
RICHMOND, VA 23219
PHONE: (804) 775-2314

110 KIRK AVENUE, SW
ROANOKE, VA 24011
PHONE: (540) 857-2676

8000 TOWERS CRESCENT DRIVE
SUITE 200
VIENNA, VA 22182
PHONE: (703) 442-0670

H. MORGAN GRIFFITH
9TH DISTRICT, VIRGINIA

COMMITTEE ON
ENERGY AND COMMERCE
SUBCOMMITTEES.

ENERGY

HEALTH

OVERSIGHT AND INVESTIGATIONS

www.morgangriffith.house.gov



Congress of the United States
House of Representatives
Washington, DC 20515-4609

2202 RAYBURN HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
(202) 225-3861 PHONE
(202) 225-0076 FAX

323 WEST MAIN STREET
ABINGDON, VA 24210
(276) 525-1405 PHONE
(276) 525-1444 FAX

17 WEST MAIN STREET
CHRISTIANSBURG, VA 24073
(540) 381-5671 PHONE
(540) 381-5675 FAX

July 27, 2020

Dr. Tamarah Holmes
Associate Director
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219-2430

Dear Dr. Holmes,

I am writing to express my interest in the grant application for a joint-project to bring high speed broadband internet service to the under and unserved areas of Wythe, Smyth and Washington Counties. submitted jointly by Wythe, Smyth, and Washington Counties in rural Southwest Virginia.

In preparing this grant application, Wythe, Smyth, and Washington Counties cited many factors contributing to the need for this funding in my congressional district. I ask that you give this application your most thoughtful and serious consideration. If there is any additional information that my office can provide, please contact Cody Mumpower at my Abingdon office at (276) 525-1405.

I would very much appreciate it if you would acknowledge receipt of this letter and keep me apprised of your action regarding this application when review is complete. You should respond to Wythe, Smyth, and Washington Counties in care of my Abingdon office at (276) 525-1405 by phone or by mail to 323 W. Main Street, Abingdon, Virginia 24210.

Thank you for your time and attention to this matter. I look forward to hearing from you. I remain

Sincerely yours,

H. MORGAN GRIFFITH
Member of Congress

SENATE OF VIRGINIA



TODD E. PILLION
40TH SENATORIAL DISTRICT
ALL OF GRAYSON, LEE, SCOTT, AND WASHINGTON
COUNTIES; ALL OF THE CITY OF BRISTOL; AND PART
OF SMYTH, WISE, AND WYTHE COUNTIES

851 FRENCH MOORE JR BOULEVARD
ABINGDON, VIRGINIA 24210
(276) 220-1209

COMMITTEE ASSIGNMENTS:
AGRICULTURE, CONSERVATION AND
NATURAL RESOURCES
GENERAL LAWS AND TECHNOLOGY
LOCAL GOVERNMENT
TRANSPORTATION

July 23, 2020

Dr. Tamarah Holmes
Director, Office of Broadband
Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Dear Dr. Holmes:

Broadband deployment is more important than ever before. As a supporter of education, infrastructure and business, I wish to offer my support for the proposed joint project to bring high speed broadband internet service to the under and unserved areas of Wythe, Smyth and Washington Counties.

I am pleased at the high level of cooperation the three localities are offering in an effort to be good stewards of public funds, maximizing the number of households positively affected while minimizing the cost per capita. As a member of the General Assembly, I have advocated for additional funding provided through VATI for the benefit of communities like those to be served through this project proposal.

The expansion of broadband internet service in these areas will expand educational, health services (via telehealth), business, and public safety opportunities to families who need these services most in a moment in time when the importance of such utilities has never been greater realized.

I appreciate your consideration of this request. Please let me know if I may be of further assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read "Todd Pillion".

Todd Pillion
Senator, 40th District



COMMONWEALTH OF VIRGINIA
HOUSE OF DELEGATES
RICHMOND

JEFFREY L. CAMPBELL
POST OFFICE BOX 986
MARION, VIRGINIA 24354

SIXTH DISTRICT

August 10, 2020

COMMITTEE ASSIGNMENTS:
COURTS OF JUSTICE
COUNTIES, CITIES AND TOWNS
HEALTH, WELFARE AND INSTITUTIONS
SCIENCE AND TECHNOLOGY

Dr. Tamarah Holmes
Associate Director
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219-2430

Re: Joint Broadband Project

Dear Dr. Holmes:

Please accept this letter of strong support for the joint broadband project being submitted by Wythe, Smyth and Washington Counties. The build-out and development of high speed broadband to unserved portions of Southwest Virginia is a project of the highest importance, calculated to provide significant economic and educational opportunity, and would otherwise be of utmost significance to the Commonwealth of Virginia as a whole from both a public safety and public health standpoint.

I would ask that you please give favorable consideration to the project and please keep me apprised of its status as it winds its way through the process.

Very truly yours,

Del. Jeffrey L. Campbell

JLC/tp

August 7, 2020

Tamarah Holmes, Ph.D.
Director, Office of Broadband
Virginia Department of Housing and Community Development
600 E. Main Street, Suite 300
Richmond, VA 23219

Re: Support of Wythe-Smyth-Washington broadband project

Dear Dr. Holmes:

I write in enthusiastic support of the joint application of Wythe, Smyth, and Bland Counties for VATI funding for a project that would bring broadband into underserved areas of our communities.

Our organization is charged with creating jobs, diversifying our economic base, and generally increasing the quality of life for our citizens through economic development. This project epitomizes work we should support.

Internet should be considered a utility in today's world, a true necessity for fuller participation in the global marketplace.

This project targets a critically underserved area and one that is replete with natural beauty. Enticing others to locate here requires affordable, robust broadband. This project would support that goal, as well.

In sum, economic development and full participation in our society means having quality internet access. This project would help us take a major step in that direction. The cross-border collaboration indicates that government can do outstanding work when working together.

Please contact me if I can provide any additional information.

All the best,



David Manley
Executive Director

276/223-3370 (office)
276/620-6209 (mobile)



150 East Monroe Street, Wytheville, VA 24382
276.223.3365 / Fax: 276.223.3412
chamber@wytheville.org / www.wybchamber.com

2020 Board Members
Matthew Clarke – Chairman
Brett McCleary – Vice Chairman
Tim Pennington – Treasurer
Barb Sewell – Secretary
Grant Barraclough
Cameron Burton
Paul "PJ" Catron
Jeremy Farley
Dr. Scott Jefferies
David Kause
Steve Lester
Paul Lindamood
Dr. Dean Sprinkle
Shane Terry
Steve Willis

July 21, 2020

Staff
Jennifer Atwell, IOM, Executive Director

Virginia Telecommunications Initiative:

On behalf of the Wytheville-Wythe-Bland Chamber of Commerce Board of Directors, this letter is in support of the proposed joint-project to bring high speed broadband internet service to the under and unserved areas of Wythe, Smyth and Washington Counties in Virginia.

As a supporter of education, infrastructure and business, the Chamber of Commerce is pleased to learn of the high level of cooperation the three localities are offering in an effort to be good stewards of public funds, maximizing the number of households positively affected while at the same time minimizing the cost per capita. The expansion of broadband internet service in these areas will expand educational, health services (via telehealth), business, and public safety opportunities to families who need these services most in a moment in time when the importance of such utilities has never been greater realized.

The Chamber of Commerce is 365-member business strong who is committed to promoting a favorable business climate for our members and communities in addition to partnering with other like organizations to make Wythe and Bland Counties a welcoming place to live, work and play. We are eager for the opportunity to partner with the Virginia Telecommunications Initiative.

Sincerely,

Jennifer W. Atwell

Jennifer W. Atwell, IOM
Executive Director

Your business partner...achieving more together.

COLLABORATION (Connect) ● INNOVATION (Engage) ● RESULTS (Prosper)



WYTHEVILLE COMMUNITY COLLEGE

1000 East Main Street • Wytheville, VA 24382

Phone: (276) 223-4848 • Fax: (276) 223-4770 • EMAIL – dsprinkle@wcc.vccs.edu
www.wcc.vccs.edu

Office of the President

July 8, 2020

To Whom It May Concern,

On behalf of Wytheville Community College (WCC) I am writing in support of Wythe County's Virginia Telecommunications Initiative (VATI) grant application.

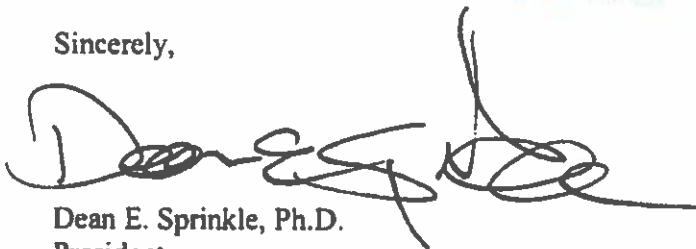
As the sole institution and primary provider of higher education in Wythe County, WCC is acutely aware of the importance of increasing broadband access to the area. Having to move essentially all course delivery online due to the pandemic has highlighted the challenges that already existed. Both students and employees of the college have faced challenges due to lack of broadband access. These same limitations pose challenges for business and entrepreneurial opportunities as well.

In the age of information technology, it is a difficult reality to accept that the college and schools serving Wythe County have to create "hot spots" in our parking lots in order for some students to access the internet. Through initiatives such as VATI, however, Wythe County students and their families can have the same access to broadband as those in more urban and affluent regions of Virginia.

In today's economy, having increased access to broadband will provide expanded opportunities for those who live in our area, but whose work requires or can be enhanced by having broadband internet service. Having broadband access is essential to meet the educational needs of our students, and to the economic viability of our county.

I wholeheartedly endorse Wythe County's participation in the VATI grant, with confidence that it will benefit students, families, businesses and our economy. If I can provide any additional information, please do not hesitate to contact me at dsprinkle@wcc.vccs.edu.

Sincerely,



Dean E. Sprinkle, Ph.D.
President



Virginia Telecommunications Initiative,

As a supporter of education, infrastructure and business, I wish to offer my support for the proposed joint-project to bring high speed broadband internet service to the under and unserved areas of Wythe, Smyth and Washington Counties.

I am pleased to learn of the high level of cooperation the three localities are offering in an effort to be good stewards of public funds, maximizing the number of households positively affected while at the same time minimizing the cost per capita.

The expansion of broadband internet service in these areas will expand educational, health services (via telehealth), business, and public safety opportunities to families who need these services most in a moment in time when the importance of such utilities has never been greater realized.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Williams". The signature is fluid and cursive, written in a professional style.

Kevin Williams, CPRP
Director, Wythe County Parks and Recreation
340 South Sixth Street
Wytheville, VA 24382
276-223-4519
rkwilliams@wytheco.org

GAVIN BLEVINS, Town Manager
LINDA ROUSE, Treasurer
TUESDAY POPE, Clerk

VISITDAMASCUS.ORG
P.O. Box 576
208 West Laurel Ave.
Damascus, VA 24236
(P) 276.475.3831



DAMASCUS

CROSSING PATHS

Mayor **JACK MCCRADY**
Vice-Mayor **TIM WILLIAMS**

TOWN COUNCIL:
Vicky Van de Vuurst
Tommy Hayes
Susan Seymore
Sean Albro
Mitchel Greer

17 August 2020

Dr. Tamarah Holmes
Associate Director
Virginia Department of Housing & Community Development
600 East Main Street, Suite 300
Richmond, VA 23219-2430

Letter of support – Joint Broadband Application for Wythe, Smyth, Washington Counties

Dr. Holmes,

Please accept this letter of support for the joint broadband project application being submitted by Wythe, Smyth, and Washington counties. The build-out and development of high speed broadband to unserved portions of Southwest Virginia is a project of the utmost priority, now more than ever before, poised to provide significant economic and educational functionality. The broadband needs of these counties in Southwest Virginia are strongly tied to the public health and welfare and are of the highest priority.

Though a portion of the Town of Damascus is served by highspeed internet, vast portions of the surrounding area does not have access to fast or reliable internet, limiting business functionality and residential accessibility for expanded land use potentiality. Now, access to high speed internet can be the difference between getting or not getting a K-12 education. The Town has plans to provide essential hot spots and wireless infrastructure within its jurisdiction, but must rely on the availability of available broadband to offer even the most essential services.

I appreciate your consideration of this request and the value of my support toward this request – please let me know if the town can provide you with any additional support.

Always a pleasure,

Gavin N. Blevins
Town Manager

"The Strength of a Town Lies in the Confidence and Cooperation of Its People"



July 8, 2020

To whom it may concern,

I am writing today to express my support for the VATI grant for Washington, Smyth, and Wythe Counties.

I myself am a product of Southwest Virginia and I am proud of our cultural traditions and the natural beauty that defines our region. Unfortunately, our region is also defined by poverty, limited opportunities and a lack of infrastructure. As a proud Southwest Virginian, I am dedicated and devoted to providing our students with the capacity and opportunities to create, produce, and connect with the world that is available to Virginians in other parts of the state.

At Minnick School in Wytheville, we serve students from across Southwest Virginia, including Wythe, Smyth, and Washington Counties. Most of our students do not have adequate Internet access in their homes. The COVID-19 pandemic laid bare our region's lack of adequate Internet infrastructure. We were able to connect with many of our students through daily video chats and lessons. However, students in the outlying areas did not have adequate connectivity to allow for video. We were dependent on 19th and 20th century technology to connect with these students.

The region's participation in the VATI grant would benefit all students and families in our region. Implementation of this grant has enormous potential to provide opportunities for our families to connect and share information, resources and talents with the world beyond Southwest Virginia.

I am proud to endorse the region's participation in the VATI grant to move our communities forward. Please let me know if I can assist with any additional information. Feel free to contact me through e-mail at wsutherland@lfsva.org.

Sincerely,

A handwritten signature in black ink that reads "William H. Sutherland". The signature is written in a cursive style with a large, looping flourish at the end.

William H. Sutherland
Principal Building 6
Minnick School Wytheville

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
EXAMPLE					
<u>Construction</u>					
<i>200 LF of fiber @\$150/LF</i>	\$30,000	\$15,000	\$15,000	Company A	9/5/2016
<i>Tower</i>	\$100,000	\$80,000	\$20,000	Company B	9/5/2016
<i>Engineering</i>	\$20,000	\$0	\$20,000	ABC Engineering Firm	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Aerial construction labor & material	\$ 28,074,595	\$ 18,644,339	\$ 9,430,256	Internal Engineering	8/24/2021
Make Ready	\$ 21,447,536	\$ 14,243,309	\$ 7,204,227	Internal Engineering	8/24/2021
Design, Engineering, Permitting, & Project Management	\$ 12,886,876	\$ 8,558,174	\$ 4,328,702	Internal Engineering	8/24/2021
Fiber cable material	\$ 12,055,995	\$ 8,006,386	\$ 4,049,609	Internal Engineering	8/24/2021
Cabinet / Hub labor & material	\$ 10,302,243	\$ 6,841,720	\$ 3,460,523	Internal Engineering	8/24/2021
Splicing labor & material	\$ 3,046,490	\$ 2,023,174	\$ 1,023,316	Internal Engineering	8/24/2021
UG construction labor & material (includes micro-trench)	\$ 1,329,764	\$ 883,096	\$ 446,668	Internal Engineering	8/24/2021
Contingency	\$ 8,914,350	\$ 5,920,020	\$ 2,994,330	Internal Engineering	8/24/2021
Materials Tax & Shipping	\$ 2,003,979	\$ 1,330,842	\$ 673,137	Internal Engineering	8/24/2021

CDBG Derivation of Cost

	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		



Dura-Line Corporation
 11400 Parkside Drive, Suite # 300
 Knoxville, TN US 37934
 Phone: (800) 847-7661
 Fax: (865) 218-3461
 www.duraline.com

Quote Acknowledgement

To:
 DURA-LINE- COD ACCOUNT
 COD/CREDIT CARD ORDERS
 KNOXVILLE, TN, 37934
 USA

Ship To:
 POINT BROADBAND

 TBD

 BALTIMORE MD 21225
 USA

Account: 100122
 Number: 20301106
 Date: 07/15/2021
 Valid To Date: 07/29/2021
 Job Name: POINT BROADBAND

Contact:
 Contact Name:
 Contact Phone:
 Email:
 Quoted by : Helen East
 Email address: helen.east@duraline.com
 Phone: 800-847-7661 Extension: 15034.

LN	QTY	PART NO.	DESCRIPTION	UOM	UNIT PRICE	EXTENSION
20	79200	2029199920	HDPMIDR160120RIORGORGOEMPTDSPRP4 2X06600 MicroDuct /16 mm OD/12 mm ID /Regular /Straight Ribs /Orange /Orange /Super Silicore (Microduct) /Empty /Ink Jet /Standard Print /Plastic /PR 42-42x28x18 /6,600 No. of Reels: 12 Gross Weight: 4977.600 LB	FT	0.18400	\$14572.80
40	79200	2030110640	HDPMIDR160120RIBLUBLUOEMPTDSPRP42 X06600 MicroDuct /16 mm OD/12 mm ID /Regular /Straight Ribs /Blue /Blue /Super Silicore (Microduct) /Empty /Ink Jet /Standard Print /Plastic /PR 42-42x28x18 /6,600 No. of Reels: 12 Gross Weight: 4977.600 LB	FT	0.18400	\$14572.80
50	79200	2030110650	HDPMIDR160120RIGRNGRNOEMPTDSPRP4 2X06600 MicroDuct /16 mm OD/12 mm ID /Regular /Straight Ribs /Green /Green /Super Silicore	FT	0.18400	\$14572.80



LN	QTY	PART NO.	DESCRIPTION	UOM	UNIT PRICE	EXTENSION
----	-----	----------	-------------	-----	------------	-----------

(Microduct) /Empty /Ink Jet /Standard Print
 /Plastic /PR 42-42x28x18 /6,600
 No. of Reels: 12

Gross Weight: 4977.600 LB

TOTAL: \$43718.40

Order Comments

PLEASE REFERENCE QUOTE# ON ALL PO'S**

---THIS QUOTE IS ONLY VALID UNTIL 7/29/21---

CURRENT LEAD TIME IS APPROXIMATELY 48 DAYS ARO TO SHIP THE FIRST TRUCKLOAD, ADDITIONAL TRUCKS TO SHIP AS COMPLETED - LEAD TIMES CHANGE SEVERAL TIMES WEEKLY AND MAY BE DIFFERENT AT TIME OF ORDER. PLEASE PLAN ACCORDINGLY PER THE LEAD TIME QUOTED. WE WILL NOT BE ABLE TO HONOR EXPEDITE REQUESTS

SCHEDULING SHIPMENT WILL BE AN ADDITIONAL 2-3 DAYS AFTER MANUFACTURING COMPLETES

IF CERTS ARE REQUIRED YOU MUST REQUEST AT TIME OF ORDER OR THERE WILL BE A \$75 CHARGE AFTER ORDER HAS SHIPPED

PRICED AS ALL LINES BEING ORDERED TOGETHER, IF QUANTITY OR SHIP TO CHANGE SO WILL THE PRICE

Terms & Conditions

FOB Origin: Clinton, TN
 Net: COD Net Due
 Shipping method: Freight Allowed

Dura-Line Corporation is pleased to present this quotation. Any change in quantity or description could change pricing.

PRICES ARE VALID THROUGH 07/29/2021. Raw material prices can and do change over the quote period. If such an event occurs, Dura-Line Corporation reserves the right to adjust selling prices proportional to raw material cost changes.

All products are subject to Dura-Line Corporation standard product warranty for materials and workmanship. A copy of the warranty may be obtained at (800)847-7661 or www.duraline.com

Purchase Orders cannot be cancelled if the product is manufactured or in transit. Cable-In-Conduit Orders cannot be cancelled if wire is already been placed on order. Orders are subject to credit approval.

Standard minimum Order quantities are as noted: Conduit - \$250.00 purchase and Accessories - \$100.00 or 1 Case

<p>\$\$\$\$ RECYCLE \$\$\$\$ REUSE \$\$\$\$ SAVE \$\$\$\$ Dura-Line Corporation buys back steel reels CONTACT OUR REEL RETURN COORDINATOR US - Call 800-847-7661 ext.15087 or 15031 Canada - Call 844-446-5589 ext.10207</p>
--

QUOTATION

Date: 09/01/2021
Quote #: Q006HGNW
Customer: 319369

Anixter Inc. (a WESCO Company)
 Send Purchase Orders to Anixter Inc.
 2301 Patriot Blvd. Glenview, IL 60026

Customer

POINT BROADBAND, LLC
 1791 OG SKINNER DR. STE A
 WEST POINT, GA 31833
 Jeff Lane
 Phone: (333)222-4343
 Fax: --
 Email: jeff.lane@point-broadband.com

101512

Line	Quantity	Part Number and Description	UM	Unit Price	Extended Price
1	2070	Non-Stock 101512HDPE 101512HDPE -- --	EA	47.82	98,987.40

Quote Total: 98,987.40

TERMS: NET30

Freight Terms: PPD/CHARGE

Shipment:

Notes: Some items may be Non Cancellable or Non Returnable. Restocking fees may apply.

Currency: USD

Please refer all inquiries to:

Jason Barth
 Phone: 972-353-7091
 Mobile: --
 Fax: --
 Jason.Barth@Anixter.com

1601 Waters Ridge Drive
 LEWISVILLE, TX 75057
 US

Comments:

Quote is valid for 20 days.

The impacts of COVID-19 cannot be reasonably determined at this time. This quote/proposal does not account for any potential adverse impacts COVID-19 may have on Anixter's performance or obligations herein. In the event of any delays or adverse impacts, Anixter reserves the right for an equitable adjustment of the delivery schedule and prices herein to offset the effects of COVID-19 delays, without fault or penalty of any kind.

BY ACCEPTING THIS QUOTE, YOU AGREE THAT THE TERMS AND CONDITIONS OF SALE PUBLISHED AT WWW.ANIXTER.COM/TERMSANDCONDITIONS ARE EXPRESSLY INCORPORATED INTO AND SHALL GOVERN THIS TRANSACTION.

Customer POINT BROADBAND
Region AMER
Quote Point-Broadband-2xNTK530QA-2021August5
Reference Number
Version v1
Prepared by Megan Brucker
Date 2021-08-05
Valid Through 2021-11-03
Extended Total 7,248.50



USD

Product Family	Item Code	Customer Unit Price	Qty	Network Site Ext Price	Site1 Ext Price	Total Customer Ext Price
6500						
BROADBAND INTERFACES						
4X10G OTR 4X XFP/4X SFP+ CIRCUIT PACK	NTK530QA	3,500.75			2 7,001.50	2 7,001.50
Subtotal NET Price - 6500					7,001.50	7,001.50
Total NET Price - Ciena Product					7,001.50	7,001.50
MAINTAIN SERVICES						
1 YEAR GLOBAL 6500 NEXT BUSINESS DAY SHIP MANAGED SPARES	80M-6500-NBS	106.00	1	106.00		1 106.00
1 YEAR 6500 SELECT SUPPORT	80M-6500-SSP-SEL	141.00	1	141.00		1 141.00
Subtotal NET Price - MAINTAIN SERVICES				247.00		247.00
Total NET Price - Ciena Services				247.00		247.00
Total Extended Price				247.00	7,001.50	7,248.50

****Terms and Conditions Notice****

Unless the parties have a signed agreement for the purchase of hardware, software and/or services, your purchase of the hardware, software and/or services detailed on the applicable quote are subject to Ciena's standard terms and conditions, which are available for review at the link below.
[Terms and Conditions](#)

Customer POINT BROADBAND
Region AMER
Reference Number Point-Broadband-2xNTKS30QA-2021August5
Configuration
Version v1
Sales Engineer Megan Brucker

Date
Valid Through 2021-11-03

Project Type
Price book info POINT_BROADBAND_PRICELIST_USD1.00_20200211

**The following represents a summary of the quoted Services.
For complete Terms and Conditions please refer to the Ciena Specialist Services Statement of Work documents.
Deployment Services - Buyer Specific Service Scope**

Maintenance Services

Technical Support:

Ciena's support model is a set of multi-technology support services that consists of technical support, software support, lifecycle management, personalized support, and proactive service support options:

SELECT Support

SELECT Support provides access to the CTS hotline 7 days a week, 24 hours per day, 365 days a year (7x24x365) to assist with fault identification, diagnosis, and problem resolution for critical issues on Covered Products.
Non-critical issues are addressed 5 days a week, 8 hours per day (5x8), Customer local business day.

Spares Management:

As a supplement to Ciena's Standard Hardware Repair Services, Ciena will ship a replacement part by the next business day.



DoubleRadius, Inc.
 2022 Van Buren Ave
 Indian Trail NC
 28079
 US

Quote
 #Q308118
 5/24/2021

Bill To

Point Broadband
 1791 O.G. Skinner Drive, Suite A
 West Point GA 31833
 United States

Ship To

COBB EMC Warehouse
 Mayson Smith
 1000 EMC Pkwy NE
 Marietta GA 30060
 United States

TOTAL

\$2,722.65

Expires: 6/23/2021

Expires	Memo	Shipping Method	Sales Rep
6/23/2021		UPS® Ground	Philip Rose

Quantity	Item	Notes	Rate	Amount
2	USW-PRO-Aggregation Ubiquiti: UniFi Switch Pro Aggregation a Fully Managed Layer 3 Switch, with (4) 25G SFP28 Ports and (28) 10G SFP+ Ports		\$842.02	\$1,684.04
2	USP-RPS Ubiquiti: UniFi® SmartPower Redundant Power System, model USP-RPS, is a proprietary redundant power system designed to protect up to six UniFi SmartPower supported devices from sudden power supply module failure	We have 1 open box units available at \$354.81 each!	\$399.00	\$798.00
1	UPS® Ground		\$86.50	\$86.50

Subtotal \$2,568.54

Tax (%) \$154.11

Total \$2,722.65



Q308118

Quotation

Please Address Purchase Order To:

Quote #
031821GW4-81

3767 Alpha Way
Bellingham, WA 98226

Alpha Technologies Services, Inc.

Attn: Mark Davis

Phone: 404-931-7338

Attn: Headend Power Sales

Email: Mark.Davis@point-broadband.com

Company:

Point Broadband

Site: Location:

alphaorders@alpha.com

Project Name: Cordex 1.2kW DC Shelf & Breakers, Spare Items

Item	Qty	Part Number	Description	Customer Price	Extended Price
1	2	0300165-405	19/23", 100A, Single Phase, 2x Load CB, 2x Battery CB , 10x GMT, BLVD. 4-Module Positions, CXCM1-HP, requires 2 line cords	\$717	\$1,434
2	2	470-347-10-A000	100 AMP BREAKER, PLUG-IN TYPE, SERIES TRIP, OFFSET PIN TERMINAL(S) Battery Breaker	\$29	\$58
3	2	470-307-10-A000	30 Amp AM Breaker, Plug-In w/Aux Switch Center Pin Only, Midtrip - Load Dist. Breaker	\$29	\$58
Spare Items					
4	5	ATL010-619-20-041	Cordex CXRF 48-1.2kW 120/208-240VAC Module; Front Cover, Plastic. Black: RoHS 6/6 Compliant, 010-619-20 L0,58,106	\$240	\$1200
5	5	747-622-20-000	Blank, Power Module, 1.2kW, Black Plastic	\$3	\$15
6	10	2000006057	Hubbell Connector, HBL460C12W, Kit	\$269	\$2690
7	2	2000006058	120VAC 2k BTU/hr ACU,nVent,Kit	\$1,774	\$3,548
Total Product:					\$9,003



NOTE: Freight will be prepaid and added to invoice
Customer shall be responsible for the self assessment and payment of applicable state and local taxes on goods purchased.

Please Reference Quote number for all correspondence or orders resulting from this proposal.

Quote # 031821GW4-81

Prices: All prices in \$US. These prices reflect 2021 pricing and is not retroactive to any past orders. The terms and conditions that apply to this quote can be found at:

*Please note that any order resulting from this quotation will be subject to our standard terms and conditions of sales (except where noted above) as specified on our acknowledgments

Prepared by:
Grant Wahliquist
Project Estimator
Alpha Technologies Services, Inc.
bh 360-325-6218

Thank You For Your Business!



QUOTATION

2301 Patriot Blvd. Glenview, IL 60026

Date: 02/02/2021
Quote #: Q005FGH8
Customer: 319369

Customer

POINT BROADBAND, LLC
1791 OG SKINNER DR. STE A
WEST POINT, GA 31833
Carrie Turner
Phone: (844)407-6468
Fax: --
Email: carrie.turner@point-broadband.com

Bristol

Line	Quantity	Part Number and Description	UM	Unit Price	Extended Price
1	65000	372-COROS2-LTDB-12 012ZU4-T4F22D20 12-F OS2 LT ALTOS BINDERLESS FAST ACCESS DIELECTRIC GELFREE0.34/0.34/0.22 DB/KM	FT	0.20	13,000.00
2	80000	372-COROS2-LTDU-288 288ZU4-T4122D20 288-F OUTDOOR LT DIELECTRIC SMF-28 ULTRA OS2, GEL-FREE BLACK JACKET	FT	1.66	132,800.00

Quote Total: 145,800.00

TERMS: NET30
Freight Terms: PPD/CHARGE
Shipment:
Notes: Some items may be Non Cancellable or Non Returnable. Restocking fees may apply.
Currency: USD

Please refer all inquiries to:

Jason Barth
Phone: 972-353-7091
Mobile: --
Fax: --
Jason.Barth@Anixter.com

1601 Waters Ridge Drive
LEWISVILLE, TX 75057
US

Comments:

The impacts of COVID-19 cannot be reasonably determined at this time. This quote/proposal does not account for any potential adverse impacts COVID-19 may have on Anixter's performance or obligations herein. In the event of any delays or adverse impacts, Anixter reserves the right for an equitable adjustment of the delivery schedule and prices herein to offset the effects of COVID-19 delays, without fault or penalty of any kind.

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Network Configuration & Quotation

Customer Name: Point Broadband, LLC
 Project Name: 10GE 4 E7 VA 070721
 Quote Description: 10GE 4 E7 VA 070721
 Author Name: Robert Larsen
 Contact Name:

Quote Reference Number: 661261A-1
 Quote Type: Access
 Date Created: July 7, 2021
 Date Modified: July 8, 2021
 Quote Expiration: August 6, 2021



Equipment Summary

E7	Price	Qty	Ext. Price
100-01771	\$4,797.00	3	\$14,391.00
E7-2 10GE-4 card (12xGE SFP, 2x10GE XFP, 2x10GE SFP+) CLEI: BVL3AW6FTB			
OIM 10GE Transport	Price	Qty	Ext. Price
100-01510	\$479.40	1	\$479.40
10GE SFP+, Single Mode dual fiber transceiver, 40Km, 1550nm, LC, I-temp CLEI: BVL3APCFAA			
100-01425	\$539.40	1	\$539.40
10GE XFP, Single Mode dual fiber transceiver, 40Km, 1550nm, LC, I-Temp CLEI: BVL3AL6FAA			
100-01514	\$107.40	2	\$214.80
10GE SFP+, Multi-Mode dual fiber transceiver, 300m, 850nm, LC, I-Temp CLEI: BVL3AMEFAA			
Equipment Total			\$15,624.60
Grand Total			\$15,624.60

Notes & Optional Equipment and Services

All prices are being quoted in US \$ (Dollars).

Due to rounding, some totals may not correspond with the sum of the separate figures.

Calix Warranty - See Purchase Agreement.

Important Ordering Instructions:

Please include the Calix quote number (found in the upper right hand corner) on your PO. You may also provide an internal PO number to be used with your order. Orders received without an internal PO number will use the Calix quote number by default.

Include contact information (Name, Email & Tel) for the person who will receive the order acknowledgements and shipping notifications as well as the required billing and shipping addresses for your order.

Send Purchase Orders to Calix Order Management:

Email: om@calix.com
Fax: 707-283-3771

You may check the status of your order at any time on our website. (www.calix.com, click Login)



Customer Name: Point Broadband, LLC
 Project Name: 10GE 4 E7 VA 070721
 Quote Description: 10GE 4 E7 VA 070721
 Author Name: Robert Larsen
 Contact Name:

Network Configuration & Quotation

Quote Reference Number: 661261A-1
 Quote Type: Access
 Date Created: July 7, 2021
 Date Modified: July 8, 2021
 Quote Expiration: August 6, 2021



Optional Summary

Extended Warranty

	Price	Qty	Ext. Price
110-01162	\$274.80	3	\$824.40
Extended Warranty - Upfront - 5 years for 100-01771			

Optional Total \$824.40



4400 Shackelford Road
 Norcross GA 30093
 P: 404-298-7700 F: 404-298-8810

Sales Quote

COPY

Order 29356	Date 07/23/21	Page 1
Valid Until		
08/23/21		

Bill To:

Point Broadband Fiber Holding
 1791 O.G. SKinner Dr. Ste A
 West Point GA 31833
 USA

Ship To:

Point Broadband - Bristol VA
 15022 Lee Hwy
 Bristol VA 24202-4256

Customer ID	Purchase Order Number	Inside Sales	Salesperson		
C000978		Kevin Haynes	Danny Mulcay		
Due Date	Ship Via	Terms	Currency		
08/23/21		Net 30	US Dollars		
QUANTITY ORD	ITEM NUMBER	DESCRIPTION	UNIT PRICE	U/M	AMOUNT
600	➔ LASHINGWIRE045	Lashing Wire, 430SS, .045" X 1200' Roll, .045SS430ACW, 6/bx, 38 lbs/bx	12.7500	ea	\$7,650.00
2000	➔ SI2175	Bug Nut, D Lashing Wire Clamp, 50/bx, 400/master AB# 4040	0.3134	ea	\$626.80
1000	➔ SI2174	(Allied #4040) Jumper bonding clamp, KUL, CU alloy, Tin Plated 100/bx,"K-1 Weavers" AB# 2125	1.6000	ea	\$1,600.00
500000	➔ STRAND025EHS5000USA	(Allied Part #2125) 1/4" Extra High Strength Strand on 5,000' reel, 6.6M, 640 lbs/rl (USA MADE)	0.1930	ft	\$96,500.00
2000	➔ ABCFWDE1104	1/4" Preformed Dead End, HDG, 6.6M, 50/bx, 24 lbs/ 20bx	1.3297	ea	\$2,659.40
500	➔ PLPGLS2104	SI # DE-S1104 Allied AB110040 1/4" Strand Splice, HDG, 50/bx, GLS2104 (Maclean LS-S9104) AB# ABS1104	3.0978	ea	\$1,548.90
500	➔ ABC6519	5/8" Slotted Thimble Eye Nut, 50/bx AB# 2050 SI #J6550C (Allied Part Number 2050)	3.8600	ea	\$1,930.00
500	➔ ABC6510	5/8" Threaded Thimbleye Nut, 50/bx AB# 5050 J 6510 , Allied 5050	3.4300	ea	\$1,715.00
500	➔ ABC5004	1-Bolt Guy Hook, 11/16" Hole, 1/4" X 1-1/2" X 4-1/8", 50/bx, "Pigear" AB# 8070	1.4500	ea	\$725.00
1500	➔ ABC7903	(Allied #8070) 3-Bolt Straight Strand Suspension Clamp, 25/bx AB# 5080	3.2808	ea	\$4,921.20
1500	➔ ABC7902L	Allied Part 5080 3-Bolt Angle Strand Suspension Clamp, 11/16" Hole, 25/bx AB# 5083 SI# SI -1755	3.7390	ea	\$5,608.50
2000	➔ ABC6813W	AB# 5083 / SI# SI -1755 2-1/4" X 2-1/4" X 3/16", HDG Square Washer, 5/8" Thru-Bolt, 200/bx AB#11500	0.4500	ea	\$900.00
31500	➔ BARE06CUSOL315	Allied Part Number 11500 #6 Bare Copper, Solid, 315' Reel, 25 lbs	0.6739	ft	\$21,227.85
1000	➔ ABC8810	5/8" X 10", Machine Bolt, 50/bx AB# 8222 Allied Part Number 8222	1.1000	ea	\$1,100.00
1000	➔ ABC8812	5/8" X 12", Machine Bolt, 50/bx AB# 8224 (Allied# 8224)	1.3077	ea	\$1,307.70
1000	➔ ABC8814	5/8" X 14" Machine Bolt,30/bx AB#8226 (Allied# 8226)	1.4600	ea	\$1,460.00
1000	➔ ABC8816	5/8" X 16", Machine Bolt, 30/bx AB# 8228 (Allied# 8228)	1.9331	ea	\$1,933.10
500	➔ GUYGUARD	8' Yellow guyguard, 25/bx	3.0000	ea	\$1,500.00
500	➔ ABC5512	5/8" X 12" Straight Thimble Eye Bolt, 25/bx AB# 5806 Allied Part 5806 J8052	3.4177	ea	\$1,708.85
500	➔ ABC5510	5/8" X 10" Straight Thimble Eye Bolt, 25/bx AB# 5805 SI #J8051 Allied Part 5805	3.2270	ea	\$1,613.50
500	➔ ABC5514	5/8" X 14" Straight Thimble Eye Bolt, 25/BX AB# 5807	3.8960	ea	\$1,948.00

All returns subject to 15% restocking fee.

UTILICOM

SUPPLY ASSOCIATES

4400 Shackleford Road
 Norcross GA 30093
 P: 404-298-7700 F: 404-298-8810

Sales Quote

COPY

Order	Date	Page
29356	07/23/21	2
Valid Until		
08/23/21		

Bill To:

Point Broadband Fiber Holding
 1791 O.G. Skinner Dr. Ste A
 West Point GA 31833
 USA

Ship To:

Point Broadband - Bristol VA
 15022 Lee Hwy
 Bristol VA 24202-4256

Customer ID	Purchase Order Number	Inside Sales	Salesperson		
C000978		Kevin Haynes	Danny Mulcay		
Due Date	Ship Via	Terms	Currency		
08/23/21		Net 30	US Dollars		
QUANTITY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	U/M	AMOUNT
ORD					
500	➔ ABC5516	5/8" X 16" Straight Thimble Eye Bolt, 25/bx AB# 5808 8054	4.6743	ea	\$2,337.15
500	➔ ABC6346	6" Screw Anchor, 3/4" X 66", No-Wrench, TripleEye AB# 1166 (Allied# 1166)	16.7990	ea	\$8,399.50
200000	➔ HDPE150135ORNTRACER	1.50" SDR 13.5, HDPE Orange Empty T18W Smooth 5000 ' Reel	0.8012	ft	\$160,240.00
100	➔ PVC15040CP	1-1/2" PVC sch 40 coupling, 30/bx	0.3316	ea	\$33.16
100	➔ 3M1401XR	4" Extended range orange marker ball, PID # ATT.100009261	7.5000	ea	\$750.00
100	➔ DURA2000007	AT 500 Blowing Lube, 5 gallon pail	69.9200	ea	\$6,992.00
50	➔ QUAPG1324Z563905	13 X 24 X 18 / W TIER 15 LID, W/POINT BROADBAND LOGO	196.3678	ea	\$9,818.39
100	➔ QUAPG3048Z76109	30X48X24 Vault, Tier 15 lid, w/Point Broadband logo	648.2850	ea	\$64,828.50
50	➔ IDEAL31-340BP	6500FT Pull-Line, 210 lbs, 4 GAL pail, 36/pallet, 11 lbs ea	34.8800	ea	\$1,744.00
10000	➔ TBCSSLH	Locking Head for Deltec Strapping, CSS-LH, 25/bag, 500/bx	0.2500	ea	\$2,500.00
5000	➔ TBCSS50R	1/2"W X 50'L Reel of Deltec Strapping, CSS-50R, 10/bx	16.9500	ea	\$84,750.00
10000	➔ TB-CSS360	SPACER 1/2" STACKABLE F/COAX AND FIBER	0.1648	ea	\$1,648.00
10000	➔ RCM-SPLICESLV	Commscope Fiber splice sleeve heat shrink, SMOUV-1120-01, 60mm, 100/bag	0.2400	ea	\$2,400.00
5000	➔ ACPDN33PTBROAD	WRAP AROUND MARKER TO FIT 1/2" - 1" DIAM. CABLE, ORANGE WITH BLACK TEXT, "POINT BROADBAND 1-844-40-POINT"	0.9700	ea	\$4,850.00
200	➔ FOSC450B62NT0B0V	FOSC450B62NT0B0V Closure, E87235-000	210.0000	ea	\$42,000.00
400	➔ FOSC450D66NT0DOV	FOSC450D66NT0DOV - Closure, Fiber Optic Splice, A42788-001	335.0000	ea	\$134,000.00
1200	➔ FOSACC DTRAY36	FOSC-ACC-D-TRAY-36	25.0000	ea	\$30,000.00
600	➔ FOSACC BTRAY12	FOSC-ACC-B-TRAY-12	14.0000	ea	\$8,400.00
1000	➔ CORNSCA9T34LRS	SCA-9T34-LRS - Closure, OptiSheath Aerial terminal, SCA-9T, 34 inch length	191.8390	ea	\$191,839.00
1000	➔ CORNSCFST112	24 Count Fiber Splice Tray	16.4615	ea	\$16,461.50
***** STRAND025EHS5000USA Price on Strand is good until August 31st *****					
***** HDPE150135ORNTRACER pricing is good until 7-30-21*****					

All returns subject to 15% restocking fee.

Unless otherwise specified, this quote is valid for a period of 30 days. This document contains privileged and confidential information and may not be disclosed to any third party without the express written consent of Utilicom Supply Associates, LLC.

Merchandise	Discount	Freight	Tax	Applied	Total Due
\$934,175.00	\$0.00	\$0.00	\$49,511.30	\$0.00	\$983,686.30

Point Quote for Ashley for Bristol

All returns subject to 15% restocking fee.



A quote for your consideration.

Based on your business needs, we put the following quote together to help with your purchase decision. Below is a detailed summary of the quote we've created to help you with your purchase decision.

To proceed with this quote, you may respond to this email, order online through your [Premier page](#), or, if you do not have Premier, use this [Quote to Order](#).

Quote No.	1028366322907.1	Sales Rep	Matthew Burnette
Total	\$12,641.10	Phone	(800) 456-3355, 7281192
Customer #	530021178934	Email	M_Burnette@Dell.com
Quoted On	May. 14, 2021	Billing To	ACCOUNTS PAYABLE
Expires by	Aug. 03, 2021		FIBER SOUTH BROADBAND
			PO BOX 369
			MARIETTA, GA 30061

Message from your Sales Rep

Please contact your Dell sales representative if you have any questions or when you're ready to place an order. Thank you for shopping with Dell!

Regards,
Matthew Burnette

Additional Comments

1 year renewal--Fiber South - 375309369- Production Support Coverage- 08-04-21 to 11-10-22

Shipping Group

Shipping To	Shipping Method
SCOTT LEE FIBER SOUTH BROADBAND 1000 EMC PKWY NE BLDG 3000 MARIETTA, GA 30060 (678) 355-3813	Standard Delivery

Product	Unit Price	Quantity	Subtotal
VLA VMW PROD SNS VCENTER SERVER 7 STD FOR VSPHERE 7 PER INSTANCE	\$1,898.63	2	\$3,797.26
VLA VMW PROD SNS FOR VSPHERE 7 ENT PLUS FOR 1 PROC	\$1,105.48	8	\$8,843.84

Subtotal:	\$12,641.10
Shipping:	\$0.00
Estimated Tax:	\$0.00
<hr/>	
Total:	\$12,641.10

Shipping Group Details

Shipping To

SCOTT LEE
 FIBER SOUTH BROADBAND
 1000 EMC PKWY NE
 BLDG 3000
 MARIETTA, GA 30060
 (678) 355-3813

Shipping Method

Standard Delivery

	Unit Price	Quantity	Subtotal
VLA VMW PROD SNS VCENTER SERVER 7 STD FOR VSPHERE 7 PER INSTANCE	\$1,898.63	2	\$3,797.26

Description	SKU	Unit Price	Quantity	Subtotal
VLA VMW PROD SNS VCENTER SERVER 7 STD FOR VSPHERE 7 PER INSTANCE	AB650180	-	2	-

	Unit Price	Quantity	Subtotal
VLA VMW PROD SNS FOR VSPHERE 7 ENT PLUS FOR 1 PROC	\$1,105.48	8	\$8,843.84

Description	SKU	Unit Price	Quantity	Subtotal
VLA VMW PROD SNS FOR VSPHERE 7 ENT PLUS FOR 1 PROC	AB650165	-	8	-

Subtotal:	\$12,641.10
Shipping:	\$0.00
Estimated Tax:	\$0.00

Total: \$12,641.10

Important Notes

Terms of Sale

This Quote will, if Customer issues a purchase order for the quoted items that is accepted by Supplier, constitute a contract between the entity issuing this Quote ("Supplier") and the entity to whom this Quote was issued ("Customer"). Unless otherwise stated herein, pricing is valid for thirty days from the date of this Quote. All product, pricing and other information is based on the latest information available and is subject to change. Supplier reserves the right to cancel this Quote and Customer purchase orders arising from pricing errors. Taxes and/or freight charges listed on this Quote are only estimates. The final amounts shall be stated on the relevant invoice. Additional freight charges will be applied if Customer requests expedited shipping. Please indicate any tax exemption status on your purchase order and send your tax exemption certificate to Tax_Department@dell.com or ARSalesTax@emc.com, as applicable.

Governing Terms: This Quote is subject to: (a) a separate written agreement between Customer or Customer's affiliate and Supplier or a Supplier's affiliate to the extent that it expressly applies to the products and/or services in this Quote or, to the extent there is no such agreement, to the applicable set of Dell's Terms of Sale (available at www.dell.com/terms or www.dell.com/oemterms), or for cloud/as-a-Service offerings, the applicable cloud terms of service (identified on the Offer Specific Terms referenced below); and (b) the terms referenced herein (collectively, the "Governing Terms"). Different Governing Terms may apply to different products and services on this Quote. The Governing Terms apply to the exclusion of all terms and conditions incorporated in or referred to in any documentation submitted by Customer to Supplier.

Supplier Software Licenses and Services Descriptions: Customer's use of any Supplier software is subject to the license terms accompanying the software, or in the absence of accompanying terms, the applicable terms posted on www.Dell.com/eula. Descriptions and terms for Supplier-branded standard services are stated at www.dell.com/servicecontracts/global or for certain infrastructure products at www.dellemc.com/en-us/customer-services/product-warranty-and-service-descriptions.htm

Offer-Specific, Third Party and Program Specific Terms: Customer's use of third-party software is subject to the license terms that accompany the software. Certain Supplier-branded and third-party products and services listed on this Quote are subject to additional, specific terms stated on www.dell.com/offeringspecificterms ("Offer Specific Terms").

In case of Resale only: Should Customer procure any products or services for resale, whether on standalone basis or as part of a solution, Customer shall include the applicable software license terms, services terms, and/or offer-specific terms in a written agreement with the end-user and provide written evidence of doing so upon receipt of request from Supplier.

In case of Financing only: If Customer intends to enter into a financing arrangement ("Financing Agreement") for the products and/or services on this Quote with Dell Financial Services LLC or other funding source pre-approved by Supplier ("FS"), Customer may issue its purchase order to Supplier or to FS. If issued to FS, Supplier will fulfill and invoice FS upon confirmation that: (a) FS intends to enter into a Financing Agreement with Customer for this order; and (b) FS agrees to procure these items from Supplier. Notwithstanding the Financing Agreement, Customer's use (and Customer's resale of and the end-user's use) of these items in the order is subject to the applicable governing agreement between Customer and Supplier, except that title shall transfer from Supplier to FS instead of to Customer. If FS notifies Supplier after shipment that Customer is no longer pursuing a Financing Agreement for these items, or if Customer fails to enter into such Financing Agreement within 120 days after shipment by Supplier, Customer shall promptly pay the Supplier invoice amounts directly to Supplier.

Customer represents that this transaction does not involve: (a) use of U.S. Government funds; (b) use by or resale to the U.S. Government; or (c) maintenance and support of the product(s) listed in this document within classified spaces. Customer further represents that this transaction does not require Supplier's compliance with any statute, regulation or information technology standard applicable to a U.S. Government procurement.

For certain products shipped to end users in California, a State Environmental Fee will be applied to Customer's invoice. Supplier encourages customers to dispose of electronic equipment properly.

Electronically linked terms and descriptions are available in hard copy upon request.

^Dell Business Credit (DBC):

OFFER VARIES BY CREDITWORTHINESS AS DETERMINED BY LENDER. Offered by WebBank to Small and Medium Business customers with approved credit. Taxes, shipping and other charges are extra and vary. Minimum monthly payments are the greater of \$15 or 3% of account balance. Dell Business Credit is not offered to government or public entities, or business entities located and organized outside of the United States.



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Form 477 Filing Summary

FRN: 0030057905 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: May 19, 2021 09:35:00

Filer Identification

Section	Question	Response
Filer Information	Company Name	Point Broadband of Ohio, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	833969
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(844) 407-6468
	Data Contact E-mail	regulatory@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(844) 407-6468
	Emergency Operations E-mail	regulatory@point-broadband.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Ohio_FCCDeployment_December_2020.csv	May 19, 2021 09:30:48	4133
Fixed Broadband Subscription	Ohio_FCCSubscription_December_2020.csv	May 19, 2021 09:32:53	436
Fixed Voice Subscription	Ohio_Voice_Subs_December_2020_V4.csv	May 19, 2021 09:17:11	10

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Ohio	Point Broadband	Optical Carrier/Fiber to the End User	237
		Terrestrial Fixed Wireless	3896
Total			4133

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

Fixed Broadband Subscription

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Ohio	Optical Carrier/Fiber to the End User	23	1138	20	1158
	Terrestrial Fixed Wireless	413	4532	150	4682
Total		436	5670	170	5840

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
2.000	2.000	681	16	697
3.000	0.500	0	7	7
3.000	2.000	0	2	2
4.000	1.000	0	8	8
4.000	4.000	0	2	2
5.000	2.000	541	16	557
5.000	4.000	1083	4	1087
10.000	2.000	175	6	181
10.000	4.000	1203	23	1226
10.000	10.000	12	5	17
15.000	4.000	164	2	166
15.000	5.000	6	2	8
20.000	4.000	9	0	9
20.000	10.000	0	5	5
20.000	20.000	0	1	1
25.000	4.000	595	36	631
25.000	10.000	0	4	4
25.000	20.000	0	1	1
25.000	25.000	471	8	479
30.000	5.000	0	1	1
40.000	10.000	1	3	4
45.000	15.000	0	3	3
50.000	4.000	51	0	51
50.000	15.000	0	2	2
50.000	50.000	78	0	78
100.000	4.000	11	0	11
100.000	100.000	452	3	455
300.000	300.000	115	1	116

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
500.000	500.000	13	0	13
1000.000	1000.000	9	9	18
Total		5670	170	5840

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	25.000	25.000	471	8	479
	50.000	50.000	78	0	78
	100.000	100.000	452	2	454
	300.000	300.000	115	1	116
	500.000	500.000	13	0	13
	1000.000	1000.000	9	9	18
Terrestrial Fixed Wireless	2.000	2.000	681	16	697
	3.000	0.500	0	7	7
	3.000	2.000	0	2	2
	4.000	1.000	0	8	8
	4.000	4.000	0	2	2
	5.000	2.000	541	16	557
	5.000	4.000	1083	4	1087
	10.000	2.000	175	6	181
	10.000	4.000	1203	23	1226
	10.000	10.000	12	5	17
	15.000	4.000	164	2	166
	15.000	5.000	6	2	8
	20.000	4.000	9	0	9
	20.000	10.000	0	5	5
	20.000	20.000	0	1	1
	25.000	4.000	595	36	631
	25.000	10.000	0	4	4
	25.000	20.000	0	1	1
	30.000	5.000	0	1	1
	40.000	10.000	1	3	4
45.000	15.000	0	3	3	
50.000	4.000	51	0	51	

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Business /		Total
			Consumer	Govt	
	50.000	15.000	0	2	2
	100.000	4.000	11	0	11
	100.000	100.000	0	1	1
Total			5670	170	5840

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
Ohio	0	0	161	154
Total	0	0	161	154

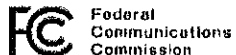
Fixed Voice Subscription (iVoIP)

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

State	Total	Consumer	Business / Govt
Ohio	0	0	0
Total	0	0	0

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
Ohio	161	154	7	161	0	161	0	0	0
Total	161	154	7	161	0	161	0	0	0



(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0026198762 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Feb 15, 2021 09:23:20

Filer Identification

Section	Question	Response
Filer Information	Company Name	Point Broadband, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	832079
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(708) 518-1071
	Data Contact E-mail	olivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(844) 407-6468
	Emergency Operations E-mail	regulatory@point-broadband.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	form477_deployments_IscWgu.csv	Feb 15, 2021 09:19:45	949
Fixed Broadband Subscription	form477_subscriptions_bFLygh.csv	Feb 15, 2021 09:20:28	160

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Alabama	Point Broadband LLC	Terrestrial Fixed Wireless	189
Florida	Point Broadband LLC	Terrestrial Fixed Wireless	3
Georgia	Point Broadband LLC	Terrestrial Fixed Wireless	653
Louisiana	Point Broadband LLC	Asymmetric xDSL	6
		Terrestrial Fixed Wireless	45
Mississippi	Point Broadband LLC	Terrestrial Fixed Wireless	53
Total			949

Fixed Broadband Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Terrestrial Fixed Wireless	52	367	30	397
Florida	Terrestrial Fixed Wireless	2	3	0	3
Georgia	Terrestrial Fixed Wireless	86	1279	78	1357
Louisiana	Asymmetric xDSL	2	7	0	7
	Terrestrial Fixed Wireless	7	184	8	192
Mississippi	Terrestrial Fixed Wireless	11	130	7	137
Total		160	1970	123	2093

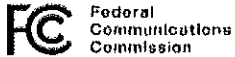
Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
5.000	1.000	2	0	2
9.999	1.000	1	5	6
10.000	1.000	936	24	960
10.000	1.033	9	5	14
10.000	5.000	0	1	1
20.000	2.000	742	62	804
20.000	5.000	0	2	2
30.000	3.000	32	7	39
50.000	1.000	229	13	242
80.000	10.000	19	4	23
Total		1970	123	2093

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

Technology	Downstream Bandwidth (In Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Asymmetric xDSL	10.000	1.000	7	0	7
Terrestrial Fixed Wireless	5.000	1.000	2	0	2
	9.999	1.000	1	5	6
	10.000	1.000	929	24	953
	10.000	1.033	9	5	14
	10.000	5.000	0	1	1
	20.000	2.000	742	62	804
	20.000	5.000	0	2	2

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
30.000	3.000	32	7	39
50.000	1.000	229	13	242
80.000	10.000	19	4	23
Total		1970	123	2093



**(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary**

FRN: 0028957306 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 15, 2021 22:16:55

Filer Identification

Section	Question	Response
Filer Information	Company Name	Point Broadband Fiber Holding, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	319050
	499 ID	832079
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(844) 407-6468
	Data Contact E-mail	olivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(844) 407-6468
	Emergency Operations E-mail	cwachter@tchold.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	fibercoverage2-16-2021V4.csv	Mar 15, 2021 20:14:38	5341
Fixed Broadband Subscription	fibercount2-16-2021.csv	Mar 15, 2021 17:47:48	470
Fixed Voice Subscription	phonecount2-16-2021.csv	Mar 15, 2021 17:47:11	48

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Michigan	Casalr.net	Optical Carrier/Fiber to the End User	5341
Total			5341

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

State	Technology	Census Tracts	Subscriptions
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Fixed Broadband Subscription

		Consumer	Business / Govt	Total	
Michigan	Optical Carrier/Fiber to the End User	470	2361	529	2890
Total		470	2361	529	2890

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
0.256	0.256	0	4	4
1.000	0.256	6	1	7
1.000	1.024	0	1	1
1.500	1.500	0	1	1
2.000	2.000	0	1	1
3.000	0.512	3	0	3
5.000	0.768	1	0	1
5.000	5.000	0	2	2
10.000	10.000	0	5	5
20.000	20.000	0	7	7
25.000	3.000	1	0	1
30.000	5.000	0	2	2
30.000	30.000	0	4	4
40.000	40.000	0	1	1
50.000	5.000	13	0	13
50.000	15.000	18	0	18
50.000	50.000	0	11	11
70.000	5.000	284	55	339
70.000	6.000	3	0	3
70.000	7.000	0	5	5
70.000	10.000	1	1	2
75.000	5.000	0	1	1
75.000	10.000	1	49	50
100.000	6.000	1	1	2
100.000	7.000	0	2	2
100.000	10.000	10	4	14
100.000	15.000	544	62	606
100.000	25.000	1126	7	1133
100.000	25.600	18	0	18

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
100.000	30.000	0	1	1
100.000	50.000	16	170	186
100.000	50.001	1	0	1
100.000	51.200	0	2	2
100.000	100.000	32	14	46
125.000	20.000	0	1	1
125.000	125.000	0	1	1
150.000	150.000	0	7	7
162.000	162.000	0	2	2
200.000	20.000	28	1	29
200.000	20.480	1	0	1
200.000	25.000	1	0	1
200.000	200.000	12	0	12
216.000	216.000	0	6	6
250.000	250.000	0	2	2
270.000	270.000	0	1	1
400.000	400.000	0	1	1
432.000	432.000	0	2	2
500.000	50.000	1	0	1
500.000	75.000	0	13	13
500.000	100.000	0	1	1
500.000	500.000	4	4	8
750.000	10.000	0	2	2
972.000	972.000	0	1	1
1000.000	10.000	1	0	1
1000.000	15.000	2	0	2
1000.000	25.000	2	7	9
1000.000	25.800	1	0	1
1000.000	50.000	221	2	223
1000.000	51.200	5	0	5
1000.000	100.000	3	25	28
1000.000	200.000	0	2	2
1000.000	1000.000	2	32	34

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
1000.000	1100.000	0	1	1
2000.000	180.000	0	1	1
Total		2361	529	2890

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	0.256	0.256	0	4	4
	1.000	0.256	6	1	7
	1.000	1.024	0	1	1
	1.500	1.500	0	1	1
	2.000	2.000	0	1	1
	3.000	0.512	3	0	3
	5.000	0.768	1	0	1
	5.000	5.000	0	2	2
	10.000	10.000	0	5	5
	20.000	20.000	0	7	7
	25.000	3.000	1	0	1
	30.000	5.000	0	2	2
	30.000	30.000	0	4	4
	40.000	40.000	0	1	1
	50.000	5.000	13	0	13
	50.000	15.000	18	0	18
	50.000	50.000	0	11	11
	70.000	5.000	284	55	339
	70.000	6.000	3	0	3
	70.000	7.000	0	5	5
70.000	10.000	1	1	2	
75.000	5.000	0	1	1	
75.000	10.000	1	49	50	
100.000	6.000	1	1	2	
100.000	7.000	0	2	2	
100.000	10.000	10	4	14	
100.000	15.000	544	82	606	
100.000	25.000	1126	7	1133	

Technology	Downstream Bandwidth (in	Upstream Bandwidth (in	Business		
	Mbps)	Mbps)	Consumer	Govt	Total
	100.000	25.600	18	0	18
	100.000	30.000	0	1	1
	100.000	50.000	16	170	186
	100.000	50.001	1	0	1
	100.000	51.200	0	2	2
	100.000	100.000	32	14	46
	125.000	20.000	0	1	1
	125.000	125.000	0	1	1
	150.000	150.000	0	7	7
	182.000	182.000	0	2	2
	200.000	20.000	26	1	27
	200.000	20.480	1	0	1
	200.000	25.000	1	0	1
	200.000	200.000	12	0	12
	216.000	216.000	0	6	6
	250.000	250.000	0	2	2
	270.000	270.000	0	1	1
	400.000	400.000	0	1	1
	432.000	432.000	0	2	2
	500.000	50.000	1	0	1
	500.000	75.000	0	13	13
	500.000	100.000	0	1	1
	500.000	500.000	4	4	8
	750.000	10.000	0	2	2
	972.000	972.000	0	1	1
	1000.000	10.000	1	0	1
	1000.000	15.000	2	0	2
	1000.000	25.000	2	7	9
	1000.000	25.600	1	0	1
	1000.000	50.000	221	2	223
	1000.000	51.200	5	0	5
	1000.000	100.000	3	25	28
	1000.000	200.000	0	2	2

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Business /		Total
			Consumer	Govt	
	1000.000	1000.000	2	32	34
	1000.000	1100.000	0	1	1
	2000.000	180.000	0	1	1
Total			2361	529	2890

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
Michigan	0	0	468	124
Total	0	0	468	124

Fixed Voice Subscription (iVoIP)

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

State	Total	Consumer	Business / Govt
Michigan	0	0	0
Total	0	0	0

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
Michigan	468	124	344	468	0	468	0	0	0
Total	468	124	344	468	0	468	0	0	0



(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0028292316 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 15, 2021 23:50:18

Filer Identification

Section	Question	Response
Filer Information	Company Name	Point Broadband of Opelika, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	498 ID	832079
Data Contact Information	Data Contact Name	Ollvia Barber
	Data Contact Phone Number	(706) 518-1071
	Data Contact E-mail	ollivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(844) 407-6468
	Emergency Operations E-mail	regulatory@point-broadband.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Point_Broadband_Opelika_477_Deployment_December_2020V2.csv	Mar 15, 2021 23:46:30	508
Fixed Broadband Subscription	Point_Broadband_Opelika_477_Data_Subscriptions_December_2020V2.csv	Mar 15, 2021 23:44:11	49
Fixed Voice Subscription	Opelika_Voice_Subs_December_2020.csv	Mar 15, 2021 23:06:42	8

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Alabama	Point Broadband Opelika, LLC	Optical Carrier/Fiber to the End User	508
Total			508

Fixed Broadband Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Optical Carrier/Fiber to the End User	49	2622	0	2622
Total		49	2622	0	2622

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
25.000	5.000	437	0	437
50.000	25.000	542	0	542
100.000	50.000	1064	0	1064
200.000	100.000	371	0	371
500.000	250.000	117	0	117
1000.000	500.000	91	0	91
Total		2622	0	2622

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

Technology	Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	25.000	5.000	437	0	437
	50.000	25.000	542	0	542
	100.000	50.000	1064	0	1064
	200.000	100.000	371	0	371
	500.000	250.000	117	0	117
	1000.000	500.000	91	0	91
Total			2622	0	2622

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	1346	622	0	0
Total	1346	622	0	0

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Alabama	0	0
Total	0	0

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Alabama	1346	1346	0	0	622	0	724
Total	1346	1346	0	0	622	0	724

VEG Lines Provided to End Users by State, Ownership and Last-mile Medium

State	Total	by Ownership				by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper	
Alabama	1346	1346	0	0	1346	0	0	0	
Total	1346	1346	0	0	1346	0	0	0	



(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0028765907 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 15, 2021 18:25:31

Filer Identification

Section	Question	Response
Filer Information	Company Name	Sunset Digital Communications, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	199025, 299033
	499 ID	833253
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(706) 518-1071
	Data Contact E-mail	olivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(844) 407-6468
	Emergency Operations E-mail	regulatory@point-broadband.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	2020-12-31_BVU_FCC477_Fixed_Broadband_Deployment_DuffieldV2.csv	Mar 15, 2021 18:11:31	1374
Fixed Broadband Subscription	2020-12-31_BVU_FCC477_Fixed_Broadband_Subscription_DuffieldV2.csv	Mar 15, 2021 17:19:26	331
Fixed Voice Subscription	2020-12-31_BVU_FCC477_Fixed_Voice_Data_Subscription_DuffieldV2.csv	Mar 15, 2021 17:16:05	32

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Tennessee	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	728
Virginia	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	648
Total			1374

Fixed Broadband Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Tennessee	Optical Carrier/Fiber to the End User	144	3021	231	3252
Virginia	Optical Carrier/Fiber to the End User	187	1841	272	2113
Total		331	4862	503	5365

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
10.000	1.000	12	107	119
10.000	10.000	0	9	9
12.000	2.000	0	4	4
20.000	2.000	0	3	3
20.000	20.000	0	1	1
25.000	2.000	1	33	34
25.000	5.000	2143	42	2185
25.000	25.000	0	2	2
30.000	5.000	0	19	19
50.000	5.000	0	89	89
50.000	25.000	590	3	593
50.000	50.000	0	10	10
75.000	5.000	0	2	2
100.000	3.000	3	30	33
100.000	8.000	0	1	1
100.000	10.000	0	68	68
100.000	50.000	1369	14	1383
100.000	100.000	0	11	11
200.000	20.000	0	32	32
200.000	100.000	515	0	515
200.000	200.000	0	3	3
300.000	50.000	0	9	9
500.000	250.000	152	0	152
500.000	500.000	0	4	4
1000.000	500.000	77	0	77
1000.000	1000.000	0	3	3

Downstream Bandwidth (In Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
2000.000	2000.000	0	1	1
10000.000	10000.000	0	3	3
Total		4862	503	5365

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

Technology	Downstream Bandwidth (In Mbps)	Upstream Bandwidth (In Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	10.000	1.000	12	107	119
	10.000	10.000	0	9	9
	12.000	2.000	0	4	4
	20.000	2.000	0	3	3
	20.000	20.000	0	1	1
	25.000	2.000	1	33	34
	25.000	5.000	2143	42	2185
	25.000	25.000	0	2	2
	30.000	5.000	0	19	19
	50.000	5.000	0	89	89
	50.000	25.000	590	3	593
	50.000	50.000	0	10	10
	75.000	5.000	0	2	2
	100.000	3.000	3	30	33
	100.000	8.000	0	1	1
	100.000	10.000	0	68	68
	100.000	50.000	1369	14	1383
	100.000	100.000	0	11	11
	200.000	20.000	0	32	32
	200.000	100.000	515	0	515
	200.000	200.000	0	3	3
	300.000	50.000	0	9	9
	500.000	250.000	152	0	152
	500.000	500.000	0	4	4
	1000.000	500.000	77	0	77
	1000.000	1000.000	0	3	3
2000.000	2000.000	0	1	1	
10000.000	10000.000	0	3	3	

Technology	Downstream Bandwidth (in	Upstream Bandwidth (in	Consumer	Govt	Total
	Mbps)	Mbps)	Business	Business	
Total			4862	503	5365

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
Tennessee	1005	595	0	0
Virginia	567	225	0	0
Total	1572	820	0	0

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Tennessee	0	0
Virginia	0	0
Total	0	0

VGE Lines Provided to End Users by State, Bundle and Product Type

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Tennessee	1005	947	58	149	446	96	314
Virginia	567	560	7	225	0	342	0
Total	1572	1507	65	374	446	438	314

VGE Lines Provided to End Users by State, Ownership and Last-mile Medium

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Tennessee	1005	1005	0	0	1005	0	0	0
Virginia	567	567	0	0	567	0	0	0
Total	1572	1572	0	0	1572	0	0	0



(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0006823991 | Data as of: Dec 31, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 16, 2021 17:02:55

Filer Identification

Section	Question	Response
Filer Information	Company Name	Sunset Fiber, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	822704
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(844) 407-6468
	Data Contact E-mail	olivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(706) 773-2683
	Emergency Operations E-mail	cwachter@ltchold.com
Certifying Official Contact Information	Certifying Official Name	Chad Wachter
	Certifying Official Phone Number	(844) 407-6468
	Certifying Official E-mail	regulatory@point-broadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	2020-12-31_BVU_FCC477_Fixed_Broadband_DeploymentV11.csv	Mar 16, 2021 17:01:32	2128
Fixed Broadband Subscription	2020-12-31_BVU_FCC477_Fixed_Broadband_Subscription_BristolFootprintV2.csv	Mar 15, 2021 16:40:57	920
Fixed Voice Subscription	2020-12-31_BVU_FCC477_Fixed_Voice_Data_Subscription_BristolFootPrintV2.csv	Mar 15, 2021 16:49:55	79

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Tennessee	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	12
Virginia	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	2116
Total			2128

Fixed Broadband Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Tennessee	Optical Carrier/Fiber to the End User	16	12	9	21
Virginia	Optical Carrier/Fiber to the End User	904	10118	3156	13274
Total		920	10130	3165	13295

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.384	0.384	0	450	450
1.000	1.000	0	1	1
1.500	0.384	0	31	31
1.500	1.000	0	117	117
1.500	1.500	0	2	2
2.000	2.000	0	164	164
3.000	1.000	0	281	281
5.000	5.000	0	24	24
6.000	1.000	1	201	202
8.000	2.000	0	2	2
10.000	1.000	0	111	111
10.000	10.000	0	45	45
12.000	2.000	0	338	338
15.000	5.000	0	4	4
20.000	2.000	0	204	204
20.000	20.000	0	14	14
25.000	5.000	46	51	97
25.000	25.000	0	24	24
30.000	5.000	2617	361	2978
30.000	30.000	0	1	1
50.000	5.000	223	324	547
50.000	25.000	1663	1	1664
50.000	50.000	0	54	54
75.000	10.000	1	0	1
100.000	10.000	0	108	108
100.000	50.000	3562	0	3562

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
100.000	100.000	0	60	60
150.000	20.000	10	0	10
150.000	75.000	0	8	8
150.000	150.000	0	15	15
200.000	20.000	0	15	15
200.000	100.000	1568	0	1568
200.000	200.000	0	25	25
250.000	250.000	0	3	3
300.000	50.000	0	36	36
300.000	150.000	0	1	1
300.000	300.000	0	4	4
400.000	400.000	0	3	3
500.000	250.000	264	0	264
500.000	500.000	0	12	12
1000.000	500.000	175	0	175
1000.000	1000.000	0	58	58
2000.000	2000.000	0	6	6
5000.000	5000.000	0	1	1
10000.000	10000.000	0	5	5
Total		10130	3165	13295

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	0.384	0.384	0	450	450
	1.000	1.000	0	1	1
	1.500	0.384	0	31	31
	1.500	1.000	0	117	117
	1.500	1.500	0	2	2
	2.000	2.000	0	164	164
	3.000	1.000	0	281	281
	5.000	5.000	0	24	24
	6.000	1.000	1	201	202
	8.000	2.000	0	2	2
	10.000	1.000	0	111	111

Technology

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business Govt	Total
10.000	10.000	0	45	45
12.000	2.000	0	338	338
15.000	5.000	0	4	4
20.000	2.000	0	204	204
20.000	20.000	0	14	14
25.000	5.000	46	51	97
25.000	25.000	0	24	24
30.000	5.000	2617	361	2978
30.000	30.000	0	1	1
50.000	5.000	223	324	547
50.000	25.000	1663	1	1664
50.000	50.000	0	54	54
75.000	10.000	1	0	1
100.000	10.000	0	108	108
100.000	50.000	3562	0	3562
100.000	100.000	0	60	60
150.000	20.000	10	0	10
150.000	75.000	0	8	8
150.000	150.000	0	15	15
200.000	20.000	0	15	15
200.000	100.000	1568	0	1568
200.000	200.000	0	25	25
250.000	250.000	0	3	3
300.000	50.000	0	36	36
300.000	150.000	0	1	1
300.000	300.000	0	4	4
400.000	400.000	0	3	3
500.000	250.000	264	0	264
500.000	500.000	0	12	12
1000.000	500.000	175	0	175
1000.000	1000.000	0	58	58
2000.000	2000.000	0	6	6
5000.000	5000.000	0	1	1

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Business /		
			Consumer	Govt	Total
	10000.000	10000.000	0	5	5
Total			10130	3165	13295

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
Georgia	29	0	0	0
Minnesota	4	0	0	0
Tennessee	19	2	0	0
Texas	27	0	0	0
Virginia	11555	3733	0	0
Total	11634	3735	0	0

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Georgia	0	0
Minnesota	0	0
Tennessee	555	0
Texas	0	0
Virginia	0	0
Total	555	0

VGE Lines Provided to End Users by State, Bundle and Product Type

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Georgia	29	0	29	0	0	0	29
Minnesota	4	4	0	0	0	0	4
Tennessee	19	18	1	0	2	0	17
Texas	27	27	0	0	0	0	27
Virginia	11555	10272	1283	519	3214	794	7028
Total	11634	10321	1313	519	3216	794	7105

VGE Lines Provided to End Users by State, Ownership and Last-mile Medium

State	Total	by Ownership				by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper	

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Georgia	29	29	0	0	29	0	0	0
Minnesota	4	4	0	0	4	0	0	0
Tennessee	19	19	0	0	19	0	0	0
Texas	27	27	0	0	27	0	0	0
Virginia	11555	11555	0	0	11555	0	0	0
Total	11634	11634	0	0	11634	0	0	0



(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0028292316 | Data as of: Jun 30, 2020 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Sep 1, 2020 15:22:50

Filer Identification

Section	Question	Response
Filer Information	Company Name	Point Broadband of Opelika, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	832079
Data Contact Information	Data Contact Name	Chad Wachter
	Data Contact Phone Number	(706) 773-2663
	Data Contact E-mail	cwachter@itchold.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(706) 773-2663
	Emergency Operations E-mail	cwachter@itchold.com
Certifying Official Contact Information	Certifying Official Name	Olivia Barber
	Certifying Official Phone Number	(706) 518-1071
	Certifying Official E-mail	olivia.barber@point-broadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Point_Broadband_Opelika_477_Deployment_June_2020.csv	Aug 30, 2020 22:48:01	508
Fixed Broadband Subscription	Point_Broadband_Opelika_477_Data_Subscriptions_June_2020.csv	Aug 30, 2020 22:38:48	80
Fixed Voice Subscription	Opelika_Voice_Subs_June_2020.txt	Aug 30, 2020 22:30:19	8

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Alabama	Point Broadband Opelika, LLC	Optical Carrier/Fiber to the End User	508
Total			508

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Optical Carrier/Fiber to the End User	80	3876	358	4234
Total		80	3876	358	4234

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
25.000	5.000	496	0	496
50.000	25.000	585	0	585
60.000	60.000	83	0	83
100.000	50.000	858	0	858
100.000	100.000	1065	285	1350
200.000	100.000	286	0	286
500.000	250.000	82	0	82
500.000	500.000	0	30	30
1000.000	500.000	68	0	68
1000.000	1000.000	353	43	396
Total		3876	358	4234

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	25.000	5.000	496	0	496
	50.000	25.000	585	0	585
	60.000	60.000	83	0	83
	100.000	50.000	858	0	858
	100.000	100.000	1065	285	1350
	200.000	100.000	286	0	286
	500.000	250.000	82	0	82
	500.000	500.000	0	30	30
	1000.000	500.000	68	0	68
	1000.000	1000.000	353	43	396
Total			3876	358	4234

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	1427	686	0	0
Total	1427	686	0	0

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Alabama	0	0
Total	0	0

VGE Lines Provided to End Users by State, Bundle and Product Type

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Alabama	1427	1427	0	0	686	0	741
Total	1427	1427	0	0	686	0	741

VGE Lines Provided to End Users by State, Ownership and Last-mile Medium

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Alabama	1427	1427	0	0	1427	0	0	0
Total	1427	1427	0	0	1427	0	0	0



(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

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Filer Identification

Section	Question	Response
Filer Information	Company Name	Point Broadband, LLC
	Holding Company Name	Point Broadband Fiber Holding, LLC
	SAC ID	
	499 ID	
Data Contact Information	Data Contact Name	Olivia Barber
	Data Contact Phone Number	(706) 518-1071
	Data Contact E-mail	olivia.barber@point-broadband.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(706) 773-2663
	Emergency Operations E-mail	cwachter@tchold.com
Certifying Official Contact Information	Certifying Official Name	Olivia Barber
	Certifying Official Phone Number	(706) 518-1071
	Certifying Official E-mail	olivia.barber@point-broadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	form477_deployments_7wlQ1Y.csv	Aug 31, 2020 16:08:27	1023
Fixed Broadband Subscription	form477_subscriptions_745jF2.csv	Aug 31, 2020 15:42:46	163

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Alabama	Point Broadband LLC	Terrestrial Fixed Wireless	210
Florida	Point Broadband LLC	Terrestrial Fixed Wireless	3
Georgia	Point Broadband LLC	Terrestrial Fixed Wireless	696
Louisiana	Point Broadband LLC	Asymmetric xDSL	6
		Terrestrial Fixed Wireless	43
Mississippi	Point Broadband LLC	Terrestrial Fixed Wireless	65
Total			1023

Fixed Broadband Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Alabama	Terrestrial Fixed Wireless	51	436	32	468
Florida	Terrestrial Fixed Wireless	2	3	0	3
Georgia	Terrestrial Fixed Wireless	88	1359	83	1442
Louisiana	Asymmetric xDSL	2	7	0	7
	Terrestrial Fixed Wireless	8	177	7	184
Mississippi	Terrestrial Fixed Wireless	12	182	8	190
Total		163	2164	130	2294

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
5.000	1.000	3	0	3
9.999	1.000	1	5	6
10.000	1.000	1035	26	1061
10.000	1.033	7	2	9
10.000	5.000	0	1	1
20.000	2.000	827	66	893
20.000	5.000	0	2	2
30.000	3.000	28	7	35
50.000	1.000	243	16	259
80.000	10.000	20	5	25
Total		2164	130	2294

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Asymmetric xDSL	10.000	1.000	7	0	7
Terrestrial Fixed Wireless	5.000	1.000	3	0	3
	9.999	1.000	1	5	6
	10.000	1.000	1028	26	1054
	10.000	1.033	7	2	9
	10.000	5.000	0	1	1
	20.000	2.000	827	66	893
	20.000	5.000	0	2	2

<https://apps.fcc.gov/eform477/Long-Form-Summary.xhtm1?retId=kq1>

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	30,000	3,000	28	7	35
	50,000	1,000	243	16	259
	80,000	10,000	20	5	25
Total			2164	130	2294



(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

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Filer Identification

Section	Question	Response
Filer Information	Company Name	Sunset Digital Communications, LLC
	Holding Company Name	Sunset Digital Communications, LLC
	SAC ID	199025, 299033
	499 ID	833253
Data Contact Information	Data Contact Name	Chad Wachter
	Data Contact Phone Number	(706) 773-2663
	Data Contact E-mail	cwachter@tchold.com
Emergency Operations Contact Information	Emergency Operations Name	Chad Wachter
	Emergency Operations Phone Number	(706) 773-2663
	Emergency Operations E-mail	cwachter@tchold.com
Certifying Official Contact Information	Certifying Official Name	Olivia Barber
	Certifying Official Phone Number	(706) 518-1071
	Certifying Official E-mail	olivia.barber@point-broadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	2020-06-30_BVU_FCC477_Fixed_Broadband_Deployment_DuffieldRevised3.csv	Sep 1, 2020 16:37:11	1329
Fixed Broadband Subscription	2020-06-30_BVU_FCC477_Fixed_Broadband_Subscription_DuffieldRevised4.csv	Sep 1, 2020 17:08:56	320
Fixed Voice Subscription	2020-06-30_BVU_FCC477_Fixed_Voice_Data_Subscription_DuffieldRevised4.csv	Sep 1, 2020 17:15:42	31

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Tennessee	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	704
Virginia	Sunset Fiber, LLC	Optical Carrier/Fiber to the End User	625
Total			1329

Fixed Broadband Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Tennessee	Optical Carrier/Fiber to the End User	141	2839	209	3048
Virginia	Optical Carrier/Fiber to the End User	179	1738	277	2015
Total		320	4577	486	5063

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
10.000	1.000	16	113	129
10.000	10.000	0	10	10
12.000	2.000	0	4	4
15.000	15.000	0	1	1
20.000	2.000	0	3	3
20.000	20.000	0	1	1
25.000	2.000	2	33	35
25.000	5.000	2272	39	2311
25.000	25.000	0	4	4
30.000	5.000	0	18	18
50.000	5.000	0	87	87
50.000	25.000	579	5	584
50.000	50.000	0	8	8
75.000	5.000	0	2	2
100.000	3.000	3	36	39
100.000	8.000	0	2	2
100.000	10.000	0	53	53
100.000	50.000	1174	14	1188
100.000	100.000	0	9	9
200.000	20.000	0	18	18
200.000	100.000	378	0	378
200.000	200.000	0	4	4
300.000	50.000	0	10	10
500.000	250.000	93	1	94
500.000	500.000	0	4	4
1000.000	500.000	60	0	60

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
1000.000	1000.000	0	4	4
10000.000	10000.000	0	3	3
Total		4577	486	5063

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	10.000	1.000	16	113	129
	10.000	10.000	0	10	10
	12.000	2.000	0	4	4
	15.000	15.000	0	1	1
	20.000	2.000	0	3	3
	20.000	20.000	0	1	1
	25.000	2.000	2	33	35
	25.000	5.000	2272	39	2311
	25.000	25.000	0	4	4
	30.000	5.000	0	18	18
	50.000	5.000	0	87	87
	50.000	25.000	579	5	584
	50.000	50.000	0	8	8
	75.000	5.000	0	2	2
	100.000	3.000	3	36	39
	100.000	8.000	0	2	2
	100.000	10.000	0	53	53
	100.000	50.000	1174	14	1188
	100.000	100.000	0	9	9
	200.000	20.000	0	18	18
200.000	100.000	378	0	378	
200.000	200.000	0	4	4	
300.000	50.000	0	10	10	
500.000	250.000	93	1	94	
500.000	500.000	0	4	4	
1000.000	500.000	60	0	60	
1000.000	1000.000	0	4	4	
10000.000	10000.000	0	3	3	

Technology	Downstream Bandwidth (in Mbps)		Upstream Bandwidth (in Mbps)		Consumer	Govt	Total
Total					4577	486	5063

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
Tennessee	845	564	0	0
Virginia	462	203	0	0
Total	1307	767	0	0

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Tennessee	0	0
Virginia	0	0
Total	0	0

VGE Lines Provided to End Users by State, Bundle and Product Type

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Tennessee	845	809	36	121	443	83	198
Virginia	462	456	6	203	0	259	0
Total	1307	1265	42	324	443	342	198

VGE Lines Provided to End Users by State, Ownership and Last-mile Medium

State	Total	by Ownership				by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper	
Tennessee	845	845	0	0	845	0	0	0	
Virginia	462	462	0	0	462	0	0	0	
Total	1307	1307	0	0	1307	0	0	0	



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Fixed Voice Subscription	2020-06-30_BVU_FCC477_Fixed_Voice_Data_Subscription_BristolFootPrint.csv	Sep 1, 2020 09:00:59	77

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Minnesota	OptiNet	Optical Carrier/Fiber to the End User	1
Tennessee	OptiNet	Optical Carrier/Fiber to the End User	1165
Texas	OptiNet	Optical Carrier/Fiber to the End User	1

State	DBA Name	Technology	Blocks
Virginia	OptiNet	Optical Carrier/Fiber to the End User	12992
Total			14159

Fixed Broadband Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Tennessee	Optical Carrier/Fiber to the End User	17	9	12	21
Virginia	Optical Carrier/Fiber to the End User	862	10006	3168	13174
Total		879	10015	3180	13195

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.384	0.384	0	450	450
1.000	1.000	0	1	1
1.500	0.384	0	36	36
1.500	1.000	0	128	128
1.500	1.500	0	2	2
2.000	2.000	0	166	166
3.000	1.000	1	319	320
5.000	5.000	0	26	26
6.000	1.000	1	223	224
8.000	2.000	0	2	2
10.000	1.000	0	106	106
10.000	10.000	0	53	53
12.000	2.000	0	313	313
15.000	5.000	0	4	4
20.000	2.000	1	222	223
20.000	20.000	0	15	15
25.000	2.000	0	1	1
25.000	5.000	14	56	70
25.000	25.000	0	22	22
30.000	5.000	3196	357	3553
30.000	30.000	0	1	1
50.000	5.000	266	284	550

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
50.000	25.000	1743	1	1744
50.000	50.000	0	57	57
75.000	10.000	1	0	1
100.000	3.000	0	1	1
100.000	10.000	0	103	103
100.000	50.000	3180	0	3180
100.000	100.000	0	55	55
150.000	20.000	13	0	13
150.000	75.000	0	8	8
150.000	150.000	0	15	15
200.000	20.000	0	14	14
200.000	100.000	1378	0	1378
200.000	200.000	0	25	25
250.000	250.000	0	3	3
300.000	50.000	0	32	32
300.000	150.000	0	1	1
300.000	300.000	0	4	4
400.000	400.000	0	2	2
500.000	250.000	148	0	148
500.000	500.000	0	12	12
1000.000	500.000	73	0	73
1000.000	1000.000	0	53	53
2000.000	2000.000	0	5	5
5000.000	5000.000	0	1	1
10000.000	10000.000	0	1	1
Total		10015	3180	13195

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	0.384	0.384	0	450	450
	1.000	1.000	0	1	1
	1.500	0.384	0	36	36
	1.500	1.000	0	128	128
	1.500	1.500	0	2	2

Technology	Downstream Bandwidth (in	Upstream Bandwidth (in	Consumer	Govt	Total
	Mbps)	Mbps)			
	2.000	2.000	0	166	166
	3.000	1.000	1	319	320
	5.000	5.000	0	26	26
	6.000	1.000	1	223	224
	8.000	2.000	0	2	2
	10.000	1.000	0	106	106
	10.000	10.000	0	53	53
	12.000	2.000	0	313	313
	15.000	5.000	0	4	4
	20.000	2.000	1	222	223
	20.000	20.000	0	15	15
	25.000	2.000	0	1	1
	25.000	5.000	14	56	70
	25.000	25.000	0	22	22
	30.000	5.000	3196	357	3553
	30.000	30.000	0	1	1
	50.000	5.000	266	284	550
	50.000	25.000	1743	1	1744
	50.000	50.000	0	57	57
	75.000	10.000	1	0	1
	100.000	3.000	0	1	1
	100.000	10.000	0	103	103
	100.000	50.000	3180	0	3180
	100.000	100.000	0	55	55
	150.000	20.000	13	0	13
	150.000	75.000	0	8	8
	150.000	150.000	0	15	15
	200.000	20.000	0	14	14
	200.000	100.000	1378	0	1378
	200.000	200.000	0	25	25
	250.000	250.000	0	3	3
	300.000	50.000	0	32	32
	300.000	150.000	0	1	1

Technology	Downstream Bandwidth (in	Upstream Bandwidth (in	Consumer	Govt	Total
	Mbps)	Mbps)			
	300.000	300.000	0	4	4
	400.000	400.000	0	2	2
	500.000	250.000	148	0	148
	500.000	500.000	0	12	12
	1000.000	500.000	73	0	73
	1000.000	1000.000	0	53	53
	2000.000	2000.000	0	5	5
	5000.000	5000.000	0	1	1
	10000.000	10000.000	0	1	1
Total			10015	3180	13195

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
Minnesota	4	0	0	0
Tennessee	19	1	0	0
Texas	27	0	0	0
Virginia	12002	4233	0	0
Total	12052	4234	0	0

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Minnesota		0
Tennessee		595
Texas		0
Virginia		0
Total		595

VGE Lines Provided to End Users by State, Bundle and Product Type

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Minnesota	4	4	0	0	0	0	4
Tennessee	19	18	1	0	1	0	18
Texas	27	27	0	0	0	0	27

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Virginia	12002	10553	1449	636	3597	823	6946
Total	12052	10602	1450	636	3598	823	6995

VGE Lines Provided to End Users by State, Ownership and Last-mile Medium

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Minnesota	4	4	0	0	4	0	0	0
Tennessee	19	19	0	0	19	0	0	0
Texas	27	27	0	0	27	0	0	0
Virginia	12002	12002	0	0	12002	0	0	0
Total	12052	12052	0	0	12052	0	0	0

Telecommunications Needs Assessment and Development of Remedial Strategies for Southwest Virginia

Prepared for:

The Virginia Department of Housing and Community Development

The Town of Nickelsville

LENOWISCO, Cumberland Plateau, and Mount Rogers PDCs

May 8, 2019

Prepared by



and



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2 EXECUTIVE SUMMARY

This report documents a comprehensive needs assessment of the telecommunications services in thirteen counties and three cities in Planning Districts 1, 2 and 3 in Southwest Virginia.

The rural parts of Southwest Virginia are largely under-served, with some areas completely *unserved*, by broadband providers. The low population density in the region and the highly challenging geography -- the Appalachian Mountain range -- make it unlikely that the region's leaders will be able to rely on the private sector to solve this problem -- if there were a market-based business case, the investor-owned service providers would already be serving.

With few exceptions, the Incumbent Local Exchange Carriers' traditional copper and cable networks are insufficient to meet the current and future bandwidth needs of the region. Due to the financial impracticality of deploying current-technology networks, most incumbent local exchange carriers have neglected to extend, upgrade, or expand their networks in the region. Through public and private investment funds, others have built middle-mile fiber along the main corridors but generally without a last-mile solution.

This lack of ubiquitous, affordable, reliable broadband has had an ongoing impact on the region. In many areas covered in this study, populations are declining. Communities are having difficulties retaining youth. Economies are stagnant and lacking the means to grow. Residents are frustrated and, in some cases, indignant about the lack of broadband and wireless. Students are falling behind. Small businesses cannot compete. Larger businesses are moving out of the region. Not all of these maladies are caused by lack of sufficient broadband services, but it is certainly a contributing factor.

The need and demand for broadband communications services is great. The demand is sufficient to justify a long-term public investment. The total projected cost for broadband is estimated at \$52 Million. This represents a high-level estimate of the total cost to solve the last-mile issue at 62 high-priority communities within the three Planning Districts. This cost estimate is based upon leveraging the existing investments made by the Virginia Tobacco Region Revitalization Commission, the Virginia Coalfield Economic Development Authority, the EDA, and other providers of capital in the regional communications infrastructure. The plan calls for approximately -372 miles of new backbone fiber and 931 miles of drops, resulting in an estimated cost of \$ 7,584 per home. The investment will pass over 9,800 homes and it is estimated 6,884 will subscribe to service. It must be noted that these unserved and underserved 62 communities are the most difficult to reach with the sparsest population density. Also, once the backbone is built to serve these communities, additional incremental (those not subscribing to service in the initial buildout) can be added for approximately \$2,200 per residence, depending upon drop length.

The following table displays the breakdown of the residences to be served, the miles of backbone and drops, and total estimated cost to remediate the targeted areas by Planning District.

Cost Estimate	Regional Total	PDC 1	PDC 2	PDC 3
Homes Passed	9,831	1,368	4,574	3,889
No. of Customers (at take rate)	6,884	957	3,202	2,725
Miles of Backbone	372	70	126	177
Miles of Drop	931	130	433	368
Total Cost (EST)	\$ 52,207,296	\$ 8,662,984	\$ 20,566,494	\$ 22,977,817
Cost per Home	\$ 7,584	\$ 9,052	\$ 6,423	\$ 8,432

This \$52 million investment will not solve all of the regional connectivity problems. It will however, address access to high-speed Internet service for the communities in the greatest need.

Additionally, this plan does not address wireless services (cellular) in the region. Simply put, there is no path forward to improving commercial wireless services in the region without a partnership/collaboration with one of the major wireless operators. The region has immense potential to build upon the wireless infrastructure deployed for the 4g project, but it is fruitless to build additional towers, distributed antennae systems, or microcells in hopes that a wireless service provider will use the assets. Wireless operators are inscrutable in their network planning and never use assets simply because they have been made available.

The prioritized list of communities to be addressed are presented in Section 5 of this report. For implementation of this plan we recommend that the regional leaders find a way to formalize a relationship with Scott County Telephone Cooperative, Citizens Telephone Cooperative, and CPC Broadband. All three of these organizations have displayed a long history of *purpose-over-profit* and shared values with the regional planning leaders to improve the quality of life in the region and drive economic development. For any collaboration to work, shared values is the most important characteristic for success.

To fund this plan Section 7.2 of the Appendices lists the resources available to improve the lack of broadband services in the identified communities. It is recommended that a separate legal entity be organized to address the connectivity issues (broadband and

wireless) in the 13 -county region. Additionally, that Executive Director must be tasked with specific accountabilities (and rewards) to seek funding for these high priority communities. In short, all of rural America will be competing for these funds. The regional leaders must become tireless advocates for the region's communications needs.

Intuitively, everyone understands there is a correlation between investments in broadband and economic development. The relationships are well studied and there are a number of scholarly articles that quantify the impacts of investment in rural broadband and economic growth, specifically:

- Gross Domestic Product Per capita Increase,
- Median Household Income Increase, and
- Productivity Increase

One of the more recent studies commissioned by the World Bank, studied the economic impact in developing economies:

Digital Dividends. Exploring the Relationship Between Broadband and Economic Growth,
by Michael Mingos, 2016.

The study concludes that a 10 percentage point increase in fixed broadband penetration would increase GDP growth by 1.21% in developed economies and 1.38% in developing ones. The GDP of the 13 county region is approximately \$12 Billion annually. The resulting economic impact in the region from the proposed investment can be expected to yield between \$145 Million and \$166 Million of economic growth, recurring annually.

There are hundreds of scholarly articles supporting this expectation.

3 INTRODUCTION

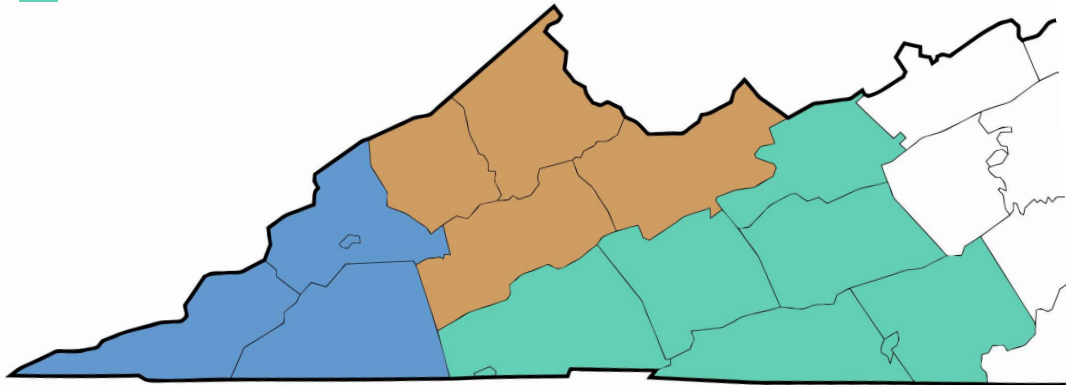
This report documents a comprehensive needs assessment of the telecommunications services in thirteen counties and three cities in Planning Districts 1, 2 and 3 in Southwest Virginia.

3.1 Project Area

Broadband Project Assessment Area – SW VA

Legend

- LENOWISCO PDC 1
- Cumberland Plateau PDC 2
- Mount Rogers PDC 3



Despite the fact that Southwest Virginia has seen over \$160 mm in capital investment over the last 20 years to improve the communications infrastructure, the region still has significant gaps in coverage. In 2016, a study by the Virginia Chamber of Commerce indicated that only 53 percent of rural Virginians had access to broadband Internet compared to urban areas with 96 percent.

During the course of this study, many communities have come forward to highlight the fact that there are areas completely unserved and underserved, and that many services are unaffordable. This outcry prompted leaders within the planning districts to strive to help improve high-speed Internet service, emergency communications service, and wireless service.

The areas studied are outlined in the following table. Across the region, population densities are low, and counties and cities are losing population due to the lack of vibrant economies. To support a growing economy, the region must have sufficient infrastructure and technologies.

Region	2010 Census	2018 Estimate	Percent Change	Square Miles	Density per Sq. Mile
Bland	6,824	6,432	-6%	358	18
Bristol city	17,835	16,877	-5%	13	1,297
Buchanan	24,098	21,576	-10%	503	43
Carroll	30,042	29,141	-3%	475	61
Dickenson	15,903	14,516	-9%	331	44
Galax City	7,042	6,587	-6%	8	799
Grayson	15,533	15,330	-1%	442	35
Lee	25,587	23,994	-6%	436	55
Norton City	3,958	3,908	-1%	7	522
Russell	28,897	27,057	-6%	474	57
Scott	23,177	22,121	-5%	536	41
Smyth	32,208	30,475	-5%	451	68
Tazewell	45,078	41,973	-7%	519	81
Washington	54,876	53,992	-2%	561	96
Wise	41,452	38,386	-7%	403	95
Wythe	29,235	28,650	-2%	462	62
Total/Average	401,745	381,015	-5%	5,977	211

3.2 Project Team

Thompson and Litton Engineers

Thompson & Litton Engineers (T&L), a local professional services firm, was selected to develop the study. T&L teamed with Blue Ridge Advisory Services Group, Inc. (Blue Ridge) to complete a comprehensive needs assessment and identify potential remedial solutions for the LENOWISCO (PDC 1), Cumberland Plateau (PDC 2), and Mount Rogers (PDC 3) planning districts.

T&L has over 100 employees in eight offices, offering an array of engineering, architectural, surveying, planning and construction services throughout Southwest Virginia, Tennessee, and West Virginia. T&L has designed 15 broadband projects and numerous wireless deployment projects since 2006.

With offices in Wise, Tazewell, and Chilhowie, T&L has a presence in each PDC associated with this study and is committed to providing superior service to the people within the region, as it has since 1956.

T&L's related project experiences include:

- Roanoke Valley Broadband Authority
- Citizens Telephone Cooperative
- Bristol VA Utilities/Cumberland Plateau
- Virginia Coalfield Coalition
- Verizon Wireless
- AT&T Mobility
- Nextel Communications
- SBA Communications
- Roanoke County, Virginia
- Virginia State Police

Blue Ridge Advisory Services Group

Blue Ridge Advisory Services Group (Blue Ridge) is a professional services firm that has been serving the telecommunications sector for 20 years. The firm provides strategies, business plans, feasibility studies, financial modeling, and other value-added related services to bring about actionable plans to improve communities.

Blue Ridge's related project experience includes:

- Dominion Energy Telecommunications,
- DukeNet,
- CaroNet,
- TVA Telecom,
- Bonneville Power Telecom,
- Mid-Atlantic Broadband (and LIT Networks),
- Virginia Coalfield Coalition 4g Wireless.
- LENOWISCO LLC
- Roanoke Valley Broadband Authority
- Consolidated Cooperative FTTH Initiative

The study is being funded by a grant from the Appalachian Regional Commission (ARC) and Virginia Department of Housing and Community Development (DHCD). It is sponsored by the Town of Nickelsville, the Cumberland Plateau, LENOWISCO and Mount Rogers PDCs, and the Virginia Coalfield Coalition (VCC). The results of this study will serve to increase awareness and knowledge of where the broadband gaps are and hopefully lead to improved broadband choices for all residents, businesses, and visitors in Southwest Virginia.

3.3 Deliverables

The final deliverables of this study include this written report, as well as two presentations to the management team. The first presentation was made in February 2019 and was followed by a second presentation in April 2019. All work products are the property of the ARC, DHCD, the VCC, the three PDCs, and the Town of Nickelsville.

3.4 Methodology

T&L and Blue Ridge worked with a cross-functional management team of regional representatives to define:

- Accomplishments in the Region,
- Community Needs,
- Regional Needs,
- Remedial Strategies and Associated Costs,
- Prioritized List of Communities in Greatest Need,
- Potential Funding Sources and Strategies, and
- Potential Service Providers.

To identify the specific needs of each community (as well as the regional needs identified in Section 7.1 of the Appendices to this report) Blue Ridge conducted 40 interviews with key stakeholders in the region, covering 13 counties and 3 cities in Southwest Virginia, including:

- 8 with LENOWISCO
- 6 with Cumberland Plateau
- 8 with Mount Rogers
- 7 with industry leaders/stakeholders in the region
- 11 with telecom service providers that are active in the region

3.5 Accomplishments in Southwest Virginia

Over the past 20 years, approximately \$168 Million dollars of public investments have been made in Planning Districts 1, 2 and 3 to enhance broadband communication. The following table shows a breakdown of those investments by planning district.

Planning District	Amount Invested
LENOWISCO	\$ 71,579,167
Cumberland Plateau	\$ 45,758,931
Mount Rogers	\$ 50,383,291
Total Public Investment in Planning Districts 1, 2, & 3	\$167,721,389

Beginning in 2000, the PDCs, realizing that the Internet was more than a passing fad, began to aggressively integrate broadband planning into their regional planning. Attitudes towards broadband gradually shifted from being considered an *amenity* to being recognized as a *necessity*. Broadband has become a quality of life issue and a necessity for ensuring economic development in every region. Essentially, it is the modern day equivalent of the Rural Electrification Act from the 1930s that brought electricity to rural America. In fact, today many are calling broadband “*the fifth utility.*”

On a national level, investments are being made in tele-health, school system technology, distance learning, and emergency preparedness. Telecommunications grants and loans are being made to improve services in each of these critical areas within the study area.

While some of these grant awards were single purpose and would not allow broadband operators to maximize their use by connecting all classes of commercial and residential customers in some cases, technology investment has driven and enhanced economic development in certain areas. A prime example of this is the Southwest Virginia Technology Center of Excellence, which is a software development and systems integration facility in the town of Lebanon in Russell County. CGI Group Inc., the fifth largest independent information technology and business process services firm in the world, invested in the area because of the grant-funded fiber optic backbone. Northrop Grumman Corporation, an American global aerospace and defense technology company, is also located in Lebanon.

Other examples include DP Facilities, Inc. data center in Wise County and Sykes Enterprises’ call centers in Buchanan and Wise Counties. Norton (PDC 1) has a Medicare transportation call center and one of its partners – the medical records data center - is in Duffield (Scott County). It is billed as “the first Tier 4 commercial data center in the US.”

4 Regional Needs

The region's needs to support technology-enabled, quality-of-life-improving applications were identified by interviewing key stakeholders throughout the three planning districts. Regional leaders view broadband as a necessity - a "4th utility." Some county leaders have taken the lack of broadband into their own hands and have begun their own initiatives to secure better services (Grayson County's RFP, for example).

Major Trends

These viewpoints and initiatives demonstrate the following major trends/needs that were identified during the interview process:

- Plenty of middle-mile fiber exists in the region but there is **very little last mile connection**, especially in the more rural areas/off the main corridors. This presents a real need for a last-mile solution, as several providers have deployed fiber in the region along the major corridors but haven't extended the lines. The existing last mile providers, the incumbent local exchange carriers (ILECs), have not invested in upgrading their networks to adequately serve customers or ensure reliability in service.
- Broadband is available in areas with higher densities (cities such as Bristol and/or Norton), but issues include **unaffordable prices, lack of competition, and low quality of service**
- Some areas lack the basics - *cable TV* and/or reliable *landline* service
- **Cellular service is spotty** throughout parts of the region; there is no comprehensive cellular solution. *Some areas still run on 3G.*
- Residents in the more rural areas seem to tolerate the lack of coverage. Visitors and prospective investors -- who are accustomed to better services -- do NOT. They take their business elsewhere.

Impact on Economic Development

While there is adequate connectivity to most of the industrial parks in the region, the lack of broadband in many areas has a profound impact on economic development.

- **Attracting Investment** - Prospective companies expect broadband to be available & won't wait for it to be built to suit. If a business expects to locate, high speed broadband with 4G is anticipated. Potential investors who cannot place a phone call from their cell phones are immediately turned off.
- **Tourism** - Tourists don't come back without cell service.
- **Infrastructure** - Broadband infrastructure is key to economic survival. Can't "get in the game" or even "sit on the bench" without it.
- **Workforce** - It's a serious "workforce issue" for retaining employees or getting new hires to relocate. Non-traditional, virtual jobs, and work from home will become more and more the future.

- **Innovation** - Broadband is necessary to foster innovation and to retain young people -- largest export is educated youth.
- **Real Estate** - Impacts home sales, as there is a noted lower demand for homes without access to broadband
- **Farming** - Impacts farming as operations become more technology-driven

Impact on Citizens

- **Options** - Without fiber and broadband, communities are unable to develop and provide advanced services
- **Price** - Consumers experience substantial pricing differentials across the region, depending on the level of competition
- **Speeds** – There is a gap between what’s advertised and what residents are experiencing, plus asymmetry between upload and download speeds

Impact on Emergency Medical Services

- Seamless emergency services communication is necessary
- A large concern by EMS is reaching tourists who cannot place cellular calls from remote areas
- Some people have to use landlines to call 911. As an illustration, in Haysi, if a call doesn’t go through, it doesn’t get forwarded, and callers have no access to emergency service.

Impact on Educational System

- Schools are well connected, but there is a major disconnect between school and home accessibility, also known as the “homework gap”

5 PRIORITIZATION OF COMMUNITIES

To prioritize the communities, the following methodology was agreed upon and used:

Rank	Criteria	Weight
1	Level of Need	50 points
	a) Un-served	
	b) Underserved	
2	Number of Potential Connections	30 points
3	Cost	20 points
	a) Backbone Connection Cost	
	b) Cost Per Connection (wireless, fiber)	

5.1 Broadband – Target Areas for Improvement

The following areas have been identified as targets for remediation in descending order of priority.

PDC 1 -- Broadband

PDC 1 - LENOWISCO								
Priority	County	Target Area for Improvement - Broadband	Homes Passed	Cost per Customer	Customers (at take rate)	Backbone Miles	Drop Miles	Total Estimated Cost
1	Lee	District 5 (north of 58 Alt)	62	\$ 8,100	43	3	6	\$ 348,313
2	Scott	Gate City to Duffield	366	\$ 10,688	256	24	35	\$ 2,736,206
3	Wise	Appalachia - Stonega	268	\$ 6,388	188	7	25	\$ 1,201,032
4	Wise	Appalachia - Exeter	260	\$ 6,578	182	8	25	\$ 1,197,236
5	Wise	Coeburn	150	\$ 7,005	105	5	14	\$ 735,528
6	Wise	Guest River	103	\$ 10,309	72	6	10	\$ 742,264
7	Wise	Birchfield	91	\$ 12,389	64	7	9	\$ 792,921
8	Lee	Blackwater	39	\$ 19,884	27	6	4	\$ 536,867
9	Wise	Hurricane	29	\$ 18,631	20	4	3	\$ 372,618
TOTAL - PDC 1			1,368	\$ 9,052	957	70	129	\$ 8,662,984

PDC 2 -- Broadband

PDC 2 - CUMBERLAND PLATEAU								
Priority	County	Target Area for Improvement - Broadband	Homes Passed	Cost per Customer	Customers (at take rate)	Backbone Miles	Drop Miles	Total Estimated Cost
1	Tazewell	Baptist Valley	712	\$ 3,671	498	2	67	\$ 1,828,233
2	Dickenson	Haysi	37	\$ 5,454	26	1	4	\$ 141,813
3	Russell	Cleveland to Carbo	690	\$ 4,246	483	6	65	\$ 2,050,899
4	Buchanan	Council to Davenport	473	\$ 3,415	331	0	45	\$ 1,130,458
5	Tazewell	Abbs Valley	370	\$ 3,899	259	2	35	\$ 1,009,884
6	Tazewell	Gratton Valley	341	\$ 5,317	239	6	32	\$ 1,270,687
7	Dickenson	Honey Camp	85	\$ 9,467	60	5	8	\$ 568,009
8	Buchanan	Conaway	77	\$ 10,159	54	5	7	\$ 548,573
9	Buchanan	Big Rock	76	\$ 7,936	53	3	7	\$ 420,621
10	Tazewell	Richlands to Jewell Ridge	248	\$ 7,172	174	9	23	\$ 1,247,892
11	Buchanan	Dismal River Rd to Whitewood	234	\$ 11,460	164	17	22	\$ 1,879,384
12	Dickenson	Clinchco	112	\$ 4,267	78	1	11	\$ 332,822
13	Tazewell/Buchanan	Jewell Ridge to Bearwallow	63	\$ 13,490	44	6	6	\$ 593,565
14	Tazewell	Thompson Valley	167	\$ 11,241	117	12	16	\$ 1,315,201
15	Russell	Green Valley Rd	139	\$ 7,311	97	5	13	\$ 709,206
16	Russell	Belfast Mills	129	\$ 7,011	90	4	12	\$ 630,976
17	Tazewell	Tannersville	122	\$ 13,576	85	11	12	\$ 1,153,952
18	Buchanan	Home Creek	105	\$ 7,835	74	4	10	\$ 579,798
19	Buchanan	Hurricane Creek	89	\$ 9,166	62	5	8	\$ 568,297
20	Dickenson	Breaks	78	\$ 8,462	55	4	7	\$ 465,385
21	Buchanan	Hurley	57	\$ 9,021	40	3	5	\$ 360,833
22	Dickenson	Hill Ridge	56	\$ 6,974	39	2	5	\$ 271,981
23	Dickenson	Lick Creek	79	\$ 16,872	55	10	7	\$ 927,987
24	Buchanan	Bearwallow to Peapatch	35	\$ 22,402	25	6	3	\$ 560,039
TOTAL - PDC 2			4,484	\$ 209,957	3,139	126	425	\$ 20,566,494

PDC 3 -- Broadband

PDC 3 - MOUNT ROGERS								
Priority	County	Target Area for Improvement - Broadband	Homes Passed	Cost per Customer	Customers (at take rate)	Backbone Miles	Drop Miles	Total Estimated Cost
1	Washington	South of Glade Spring	182	\$ 7,733	127	7	17	\$ 982,091
2	Bland	Ceres	39	\$ 6,271	27	1	4	\$ 169,327
3	Grayson	Providence to Fries	374	\$ 4,548	262	4	35	\$ 1,191,642
4	Smyth	Sugar Grove	301	\$ 4,910	211	4	29	\$ 1,035,967
5	Bland	Clear Fork	113	\$ 13,752	79	11	11	\$ 1,086,374
6	Smyth	Rich Valley	443	\$ 6,863	310	14	42	\$ 2,127,419
7	Bland	Bland to Holly Brook	283	\$ 10,703	198	19	27	\$ 2,119,121
8	Carroll	Hillsville to Fancy Gap	254	\$ 7,132	178	9	24	\$ 1,269,484
9	Washington	Damascus	182	\$ 3,768	127	1	17	\$ 478,483
10	Wythe	Austinville	175	\$ 5,955	123	4	17	\$ 732,497
11	Bland	Grapefield	96	\$ 16,083	67	11	9	\$ 1,077,560
12	Grayson	Independence to Elk Creek	185	\$ 9,485	130	10	18	\$ 1,233,007
13	Bland	Dry Fork	151	\$ 8,958	106	8	14	\$ 949,500
14	Grayson	Baywood	76	\$ 6,313	53	2	7	\$ 334,601
15	Washington	Mendota	63	\$ 4,959	44	1	6	\$ 218,205
16	Grayson	Galax to Old Town	60	\$ 5,962	42	1	6	\$ 250,419
17	Washington	Hayter's Gap	45	\$ 9,927	32	3	4	\$ 317,649
18	Smyth	Chilhowie Industrial Park	1	\$ 88,852	1	1	0	\$ 88,852
19	Bland	Little Creek	119	\$ 15,516	83	13	11	\$ 1,287,826
20	Carroll	Dugspur to Laurel Fork	105	\$ 15,285	74	11	10	\$ 1,131,108
21	Grayson	Independence to Bridle Creek	101	\$ 9,296	71	5	10	\$ 660,010
22	Wythe	Castleton Road	98	\$ 9,239	69	5	9	\$ 637,484
23	Carroll	South of Woodlawn	73	\$ 8,112	51	3	7	\$ 413,735
24	Wythe	Barren Springs	53	\$ 8,221	37	2	5	\$ 304,195
25	Grayson	East of Troutdale	25	\$ 7,217	18	1	2	\$ 129,910
26	Grayson	Mouth of Wilson to Rugby	87	\$ 14,762	61	9	8	\$ 900,503
27	Grayson	Rte 58 to Providence	77	\$ 12,331	54	6	7	\$ 665,873
28	Grayson	Elk Creek to Comers Rock	74	\$ 9,816	52	4	7	\$ 510,407
29	Grayson	Bridle Creek to Mouth of Wilson	54	\$ 17,752	38	7	5	\$ 674,567
TOTAL - PDC 3			3,889	\$ 349,720	2,725	177	368	\$ 22,977,817

5.2 Broadband Prioritized Target Areas for Improvement; All PDCs

Ranking	PDC	County	Target Area for Improvement - Broadband	Ranking	PDC	County	Target Area for Improvement - Broadband
1	PDC2	Tazewell	Baptist Valley	32	PDC1	Wise	Coeburn
2	PDC3	Washington	South of Glade Spring	33	PDC2	Russell	Green Valley Rd
3	PDC3	Bland	Ceres	34	PDC2	Russell	Belfast Mills
4	PDC2	Dickenson	Haysi	35	PDC3	Grayson	Baywood
5	PDC2	Russell	Cleveland to Carbo	36	PDC3	Washington	Mendota
6	PDC2	Buchanan	Council to Davenport	37	PDC3	Grayson	Galax to Old Town
7	PDC3	Grayson	Providence to Fries	38	PDC3	Washington	Hayter's Gap
8	PDC2	Tazewell	Abbs Valley	39	PDC3	Smyth	Chilhowie Industrial Park
9	PDC2	Tazewell	Gratton Valley	40	PDC2	Tazewell	Tannersville
10	PDC3	Smyth	Sugar Grove	41	PDC3	Bland	Little Creek
11	PDC3	Bland	Clear Fork	42	PDC3	Carroll	Dugspur to Laurel Fork
12	PDC2	Dickenson	Honey Camp	43	PDC2	Buchanan	Home Creek
13	PDC2	Buchanan	Conaway	44	PDC1	Wise	Guest River
14	PDC2	Buchanan	Big Rock	45	PDC3	Grayson	Independence to Bridle Creek
15	PDC1	Lee	District 5 (north of 58 Alt)	46	PDC3	Wythe	Castleton Road
16	PDC3	Smyth	Rich Valley	47	PDC2	Buchanan	Hurricane Creek
17	PDC1	Scott	Gate City to Duffield	48	PDC2	Dickenson	Breaks
18	PDC3	Bland	Bland to Holly Brook	49	PDC3	Carroll	South of Woodlawn
19	PDC1	Wise	Appalachia - Stonega	50	PDC2	Buchanan	Hurley
20	PDC1	Wise	Appalachia - Exeter	51	PDC2	Dickenson	Hill Ridge
21	PDC3	Carroll	Hillsville to Fancy Gap	52	PDC3	Wythe	Barren Springs
22	PDC2	Tazewell	Richlands to Jewell Ridge	53	PDC3	Grayson	East of Troutdale
23	PDC2	Buchanan	Dismal River Rd to Whitewood	54	PDC1	Wise	Birchfield
24	PDC3	Washington	Damascus	55	PDC3	Grayson	Mouth of Wilson to Rugby
25	PDC3	Wythe	Austinville	56	PDC2	Dickenson	Lick Creek
26	PDC2	Dickenson	Clinchco	57	PDC3	Grayson	Rte 58 to Providence
27	PDC3	Bland	Grapefield	58	PDC3	Grayson	Elk Creek to Comers Rock
28	PDC2	Tazewell/Buchanan	Jewell Ridge to Bearwallow	59	PDC3	Grayson	Bridle Creek to Mouth of Wilson
29	PDC3	Grayson	Independence to Elk Creek	60	PDC1	Lee	Blackwater
30	PDC2	Tazewell	Thompson Valley	61	PDC2	Buchanan	Bearwallow to Peapatch
31	PDC3	Bland	Dry Fork	62	PDC1	Wise	Hurricane

5.3 Cellular – Target Areas for Improvement

PDC 1 – Wireless

PDC 1	
County	Target Area for Improvement - Cellular
Lee	Blackwater
Lee	Ewing
Lee	Flatwoods
Lee	Keokee
Lee	LMU Vet School
Lee	Rose Hill
Lee	St Charles
Norton	Flag Rock Recreation Area
Norton	Hawthorne Drive
Scott	Clinchport to Dungannon
Scott	Dungannon
Scott	Fort Blackmore
Scott	Gate City to Duffield
Scott	Gate City to Nickelsville
Scott	Nickelsville
Scott/Russell	Nickelsville to Lebanon (Russell County, 30 mi)
Scott	Rye Cove
Scott	Twin Springs
Wise	Airport
Wise	Appalachia
Wise	Coeburn
Wise	Guest River area (NW of Norton, N of Blackwood)
Wise	Pound
Wise	Wise (past the airport towards Dickenson County)

PDC 2 – Wireless

PDC 2	
County	Target Area for Improvement - Cellular
Buchanan	US 460 Vasant to Richlands
Buchanan/Dickenson/Russell	Route 80/Scenic Bike Trail
Dickenson	Clintwood to St. Paul
Dickenson	Edwards Ridge
Dickenson	Haysi
Dickenson	Lick Creek
Russell	Cleveland
Russell	Dante
Russell	Honaker
Russell	Lebanon to Hansonville
Russell/Washington	Hansonville to Abingdon

PDC 3 – Wireless

PDC 3	
County	Target Area for Improvement - Cellular
Bland	Ceres
Bland	Clear Fork
Bland	Dry Fork
Bland	Grapefield
Bland	Holly Brook
Bland	Little Creek
Carroll	Dugspur
Carroll	Laurel Fork
Carroll	S of Woodlawn/NE of Lambsburg
Washington	Abingdon

Wireless Service in the Future

Unlike Broadband Service, little can be done by the regional leaders to improve wireless communications without the full cooperation and assistance of a major wireless carrier.

It is impossible to forecast the total capital cost to improve the wireless coverage in these unserved communities. The recent 4g wireless project undertaken by the Virginia Coalfield Coalition resulted in significant regional coverage expansion (estimated at 90% of the population in PDCs 1 and 2) for \$15 Million, with a matching capital expenditure by a carrier. It is reasonable to estimate that a similar budget would be required to achieve 100% coverage.

One thing is clear from the initial 4g wireless initiative. There can be no economic development, eco-tourism, smart communities, smart electric grid, autonomous vehicles, or anything of the like without solid wireless communications network.

5th Generation Wireless (5G).

The next evolution of wireless communications (mobile point-to-multipoint communications, sometimes called “cellular”) is called 5th Generation Wireless or 5G. 5G is a standards-based protocol that enables much higher data transmission speed to wireless devices than any previous standard.

Why is 5G important? 5th generation wireless will enable speeds of up to 4 gigabits per second. That is 80 times faster than the speeds experienced on a 4g LTE network. Our world is becoming increasingly more dependent upon mobile data. Things like Smart Cities, Smart Grid, Hi-definition Tele Health, and Autonomous Vehicles will all require 5G.

What is the network like? 5G operates at a much higher wave frequency than any of the previous generation’s networks. This means the signals will travel shorter distances and not be able to travel through impediments. However, the frequencies will carry much greater data payloads.

The FCC concluded its first 5G spectrum auction this year in the 28 GHz band, and its auction of 24 GHz spectrum is taking place right now. Later this year, the FCC will auction the upper 37 GHz, 39 GHz, and 47 GHz bands.

5G will require a completely different network architecture and infrastructure than is currently in place. Instead of 200 foot-tall towers with large macro cells that can cover miles of territory, 5G will require small-cell or micro-cell architecture that broadcasts only a few hundred feet. It is generally believed that 5G cells will be required every thousand feet or so. Cells will be placed on light poles, utility poles, rooftops, and sides of buildings. The cells are small and require less power than macro cells. A key component of the network is fiber optic cable, as all cells must be connected with fiber to meet the bandwidth and latency requirements.

When will 5G be deployed? Carriers are working on beta tests and early network testing in a handful of metropolitan markets. The complete spectrum auction being managed by the FCC will not be completed until the end of 2019. Mobile handset makers like Apple will not release a 5G phone until late 2020 or 2021. 5G will not be widely available for several years. The initial deployments that have been announced are all major metropolitan areas. It is unknown how long, if ever, 5G will be deployed in rural markets like our three Planning Districts. ***There is nothing expected from 5G that would disrupt the plan outlined in this document for the foreseeable planning horizon.***

6 Recommendations and Next Steps

It is neither the purpose nor the intention of this study to point out the obvious to the leadership of PDCs 1, 2, and 3. The situation is plainly known to every planner, politician, stakeholder, and citizen in the region – **the communications infrastructure in Southwest Virginia is woefully inadequate to move the region forward.**

There are areas of breakthrough performance that can be pointed to as major successes:

1. LIT Networks bringing direct fiber connectivity and terabit speeds to the region from Ashburn thus enabling the development of critical data centers. Lowering the cost of wholesale Internet for all regional service providers. And providing diversity to the major Internet NAPs in Atlanta Georgia with ring protection.
2. Scott County Telephone's, Citizens Telephone's, and Sunset Digital's Fiber to the Home (FTTH) initiatives delivering gigabit speeds to residential customers.
3. The VCC 4g wireless project which enabled 4th generation wireless services to reach a reported 90% of the population of PDC's 1 and 2 (excluding Scott and Tazewell Counties).
4. CPC Broadband (formerly CPC OptiNet) is a subsidiary company of the Cumberland Plateau PDC. It was organized to serve Russell, Dickenson, Tazewell, and Buchanan Counties. Partnering with Point Broadband the Company has obtained over \$37 million in grant funding for the construction of 700 miles of fiber optic broadband backbone that is now serving almost 900 industrial, commercial, governmental and educational institutions in the region, including Northrup Grumman, Sykes, Pyott-Boone, and Dickenson County Public Schools.

Yet, despite these successes, the plain truth is that without service **ubiquitously** in the region, there can be no sustainable economic development, job creation and retention, and work force development.

The purpose of this report is to identify a prioritized inventory of areas to address; presented in Section 5. Our recommendations for implementing improvement are as follows:

6.1 Recommendations

1. Address the broadband problem on a regional basis as three PDC's, not individually, competing against one another for scarce resources. Consider forming a separate legal entity (or repurposing an existing one like the VCC) specifically to attack solving the broadband problems in the region. Hire a

dedicated Executive Director and task him/her with time-specific and measurable goals. Link compensation to goal attainment.

2. This report presents a priority list by PDC, and a single integrated list. There are economies of scale to network deployment. It may be far more cost effective to attack the highest priority from PDC 3 and a middle priority from PDC 2 at the same time. This should be considered before undertaking a strict buildout of the presented priorities.
3. Formalize agreements with SCTC, Citizens, and CPC Broadband that outline the mechanics of how network will be funded, deployed, operated, and maintained, including any revenue sharing.
4. Continue to encourage WISPs such as iGo, HillCom, and Gigabeam to deploy their wireless networks in unserved markets. While wireless is neither as robust nor as high-a-quality service as fiber, this is a situation where anything is better than nothing for the unserved customer. The encouragement can come in the form of discounted costs for tower attachment, access to dark fiber, and assistance with grant/loan programs.
5. Ignore the notion that some communities may eventually be served by virtue of the Connect America Fund. The FCC Connect America Fund recipients are not obligated to serve customers for up to six years. The unserved residents of Southwest Virginia need service NOW.
6. Attain legislative assistance, particularly for wireless (cellular) deployments. Several times in this report it has been noted that there is no path forward for wireless expansion without a carrier's participation. When the VCC implemented the 4g wireless program in 2011, it was only possible because of the leadership of Delegate Kilgore and the Tobacco Commission striking a deal with a commercial wireless provider.
7. Strive to get Southwest Virginia broadband worked into the annual state budget. Governor Northam has noted several times that rural broadband is a priority for his administration. In December 2018, the Governor announced plans to ask the General Assembly to commit \$46 million in the state's upcoming budget to assist rural areas of Virginia to get broadband Internet access. The Southwest Legislative Delegation should strive for a specific earmark for the region.

7 ATTACHMENTS AND APPENDICES

7.1 COMMUNITY NEEDS APPENDIX

LENOWISCO

The following table shows the population change and density per square mile for PDC 1 – LENOWISCO (Lee, Norton, Wise, and Scott).

PDC 1	2010 Census	2018 Estimate	Percent Change	Square Miles	Density/Sq. Mile
Lee	25,587	23,994	-6%	436	55
Norton City	3,958	3,908	-1%	7	522
Wise	41,452	38,386	-7%	403	95
Scott	23,177	22,121	-5%	536	41
Total/Average	94,174	88,409	-5%	1,382	68

Lee County

Lee County is served by Comcast and Verizon with additional services provided by Sunset Digital Communications.

Pennington Gap and Jonesville are the main population centers within the county and are relatively well served. However, St. Charles and the surrounding communities are not as well served. A few areas reported no telephone service in inclement weather and a complete void of multi-channel video service. Of course, high speed Internet service is non-existent. Business services are limited.



From Rose Hill westward toward Cumberland Gap, complaints about broadband service have been ongoing for years.

Verizon, the Incumbent Local Exchange Carriers (ILEC) in the region, is offering broadband services using DSL in some portions of the region. DSL has a physical

distance limitation that precludes it from being widely available. Even then, DSL is insufficient to meet the current FCC definition of broadband. Because of the technology limitations, it is understood there are no upgrades forthcoming for DSL that will keep pace with current bandwidth services in most of the nation.

Poor cellular service is a common complaint. New towers are being planned in Lee County for emergency services. The county planners are building these towers to accommodate commercial carriers in the hope that macro cells will be collocated on these towers and improve that wireless situation. To date, no commercial carriers have shown an interest in these new towers. Local officials understand that cellular wireless service is inadequate throughout the county and that it is an impediment to sustainability.

Communities identified as high-priority for broadband expansion are:

- District 5 (north of 58 Alt)
- Keokee
- Blackwater
- Flatwoods
- Rose Hill
- Ewing

***“The two things which we must overcome as a community and as a region is the challenge of overcoming the older generation/leaders’ way of thinking and planning for the expected exponential change in [broadband] capacity needs in the future.” –
Leton Harding, Powell Valley National Bank***

Wise County

Wise County receives most of its digital services from Comcast, Verizon, Sunset Digital, and Scott County Telephone Cooperative (SCTC).



Wise County has several backbone networks traversing the county with acceptable service levels to many. As a result, the county has seen economic development opportunities improve. One major data center, two call centers, and one digital-operations-center have located in Wise County.

However, not all residents of Wise County are receiving satisfactory services. Customers farthest from the main networks experience service quality and reliability failures, and competitive services options are not available. Greater speeds for uploads and downloads are needed for work-at-home opportunities for entrepreneurs and the general workforce.

Wise County communities identified as high-priority for broadband expansion are:

- Powell Valley
- Appalachia and the immediately surrounding coal camps
- Blackwood
- Areas north of the City of Norton
- West of US. 23
- Areas outside of Coeburn toward Scott County
- Smaller communities northeast of the Town of Wise
- Coeburn Mountain area (including Airport Road)
- Northwest of St. Paul
- Pound

Scott County

Scott County Telephone Cooperative is the Incumbent Local Exchange Carrier for the county. SCTC has been very active in providing advanced telecom services throughout the county and region. Residents and businesses located near SCTC's central offices, remote access nodes, and switching centers receive excellent service. However, communities located further from the main exchanges don't have all of the bandwidth necessary to power their digital needs.



All schools in the county are well served; however, the lack of last-mile connectivity to residents hampers the full digital curricula potential.

The lack of adequate wireless (cellular) coverage throughout the county continues to be a challenge, with routine complaints coming in from various governmental entities within the county.

Specific communities in need for improved cellular service include:

- Nickelsville
- Fort Blackmore
- Rye Cove and
- Dungannon

“Our biggest obstacle is not the infrastructure, but our vision of how to use that infrastructure.” – Danny Dixon, Vice Mayor of Nickelsville

City of Norton

The City of Norton has enjoyed robust communications services for years as a result of Verizon hosting a major Central Office in the downtown area. Economic development has taken advantage of that situation by successfully recruiting several digital businesses over the years including the Dual Party Relay Center providing services for the entire Commonwealth of Virginia through a contract with AT&T. That center recently closed as a result of contract changes and consolidation of services elsewhere. Verizon has also placed a directory assistance center within the city as has the statewide service that arranges Medicaid transportation services for their clients.

Cumberland Plateau

The following table shows the population change and density per square mile for PDC 2 – Cumberland Plateau (Buchanan, Dickenson, Russell, and Tazewell Counties).

PDC 2	2010 Census	2018 Estimate	Percent Change	Square Miles	Density/Sq. Mile
Buchanan	24,098	21,576	-10%	503	43
Dickenson	15,903	14,516	-9%	331	44
Russell	28,897	27,057	-6%	474	57
Tazewell	45,078	41,973	-7%	519	81
Total/Average	113,976	105,122	-8%	1,826	56

Buchanan County

Buchanan County is deep within the Coalfields of Virginia, adjacent to both Kentucky and West Virginia. The greatest communications network challenges in Buchanan County are the steep mountain terrain. However, a certain “can do” attitude exists which has fostered creative solutions to many problems.

This theme carried throughout the interviews conducted in the county. When solutions weren’t forthcoming from the service providers, local leaders took the initiative to raise funds and, in some cases, worked directly with the incumbent providers to extend services into communities where a business case could be made.

Educational institutions have created strong demand for broadband and wireless services, making communications a critical success factor for the region. A private law school and college of pharmacy have been operational in Buchanan County since 1994 and 2003,



“Poor cellular coverage results in unsatisfying tourism experiences for our visitors” - Rita Surratt, Director, Dickenson County Chamber of Commerce

Russell County

Service providers in Russell County include Shentel, Verizon, and the Cumberland Plateau Company through a partnership with Sunset Digital. Russell County has capitalized on the “gig economy” by successfully recruiting call centers and software development centers to the region.

High-speed fiber lines were first placed in Lebanon nearly two decades ago which allowed the creation of data center and software development jobs.

However, connectivity beyond the Lebanon and the transportation corridors is still a problem for most of the county.



Affordability of broadband services was mentioned as a particular issue in Russell County.

When interviewees were asked about particular Russell County needs, **“all areas beyond Lebanon”** was the response.

Particular communities outlined regarding cellular wireless service needs included:

- Lebanon to Gate City - 71 - No service 75% of the time (1 hr. drive)
- Lebanon to Hansonville - Dropped calls/spotty coverage
- Lebanon to Abingdon - Dropped calls/spotty coverage
- Dante (near St. Paul) - Dropped calls/spotty coverage
- Cleveland - Dropped calls/spotty coverage
- Swords Creek -- Dropped calls/spotty coverage

The most pressing concern however was the inability to foster innovation and retain young people without dependable, affordable, quality broadband communications.

From an economic development perspective, “you can’t ‘get in the game’ or even ‘sit on the bench’ without broadband infrastructure.” – Rachel Patton, WIA One Assistant Director

Tazewell County

Service providers in Tazewell County include Verizon, Spectrum, Burkes Garden, Comcast and Sunset. Tazewell County communities identified as high-priority for broadband expansion:

- Gratton Valley
- Tannersville and Clear Fork
- Thompson Valley
- Baptist Valley
- Abbs Valley
- Jewell Ridge
- Bluestone Commerce Park



The poor condition of Verizon legacy infrastructure is of great concern. Even landline service, the most basic of all telecom services, is unreliable.

In terms of cellular service, the main transportation corridor running through the county was the only reliable area for wireless communication.

“The most important piece of technology in the classroom is the teacher.” – Drennon Laney, Server and Systems Administrator, Tazewell County Public Schools.

Mount Rogers

The following table shows the population change and density per square mile for PDC 3 – Mount Rogers (Bland, Bristol, Carroll, Galax, Grayson, Smyth, Washington, and Wythe).

PDC 3	2010 Census	2018 Estimate	Percent Change	Square Miles	Density per Sq. Mile
Bland	6,824	6,432	-6%	358	18
Bristol City	17,835	16,877	-5%	13	1,297
Carroll	30,042	29,141	-3%	475	61
Galax City	7,042	6,587	-6%	8	799
Grayson	15,533	15,330	-1%	442	35
Smyth	32,208	30,475	-5%	451	68
Washington	54,876	53,992	-2%	561	96
Wythe	29,235	28,650	-2%	462	62
Total/Average	193,595	187,484	-3%	2,770	305

Bland County

Bland County, the least populated county studied, was recently awarded a \$459,764 grant from the Appalachian Regional Commission for a 33-mile fiber build to businesses and institutions in the county. The fiber run will start in Rocky Gap, then south through Bastian, then to Bland. The fiber will run along the Route 52 corridor. Once the fiber construction is finished, an ISP partner will use wireless technology to reach additional locations off Route 52. The project will make Internet access available to 37 businesses, as well as Bland County Schools, the Board of Education offices and the Bland County Medical Clinic, a federally qualified health center.



The existing providers in Bland County primarily use fixed wireless and existing DSL network plant to provide service and include:

- Sunset - Middle-mile fiber along Rt. 42 to Bland Correctional Facility
- CenturyLink – Some 10 MBPS service over copper but mostly 3 MBPS
- Verizon
- Gigabeam – Serving approximately 200 residents using towers throughout the county. They provide 50 MBPS service for \$79/mo. and 25 MBPS for \$30/mo.

Bland currently has a public-private partnership with Gigabeam Networks for up to 2 gig wireless.

Currently, the residential needs are not being met. The following areas were identified as having the greatest needs:

- Ceres (agriculture, tourism, 42/52 split)
- Grapefield
- Dry fork, Clear Fork, and Little Creek
- Hollybrook

Carroll County

Carroll County has a population of approximately 29,724. Parts of the county are adequately served (the north side of Hillsville, for example), but other areas (specifically the south side of Hillsville) can only get about 1.5 MBPS, or “barely enough to e-mail.” In terms of cellular coverage, U.S Cellular has “good coverage” along main transportation corridors.



Resident complaints stem from CenturyLink and the lack of responsiveness to customers. The county has good broadband in the industrial parks, but workforce is the big issue for economic development.

CenturyLink is using its incumbent network (DSL) to serve customers

and used CAF funding to make it look as if customers had access to broadband when, in fact, they didn't.

Areas of greatest need include:

- Pipers Gap
- Laurel Fork
- Dugspur Region
- South of Woodlawn/Northeast of Lambsburg (FastLink has about 300 customers north of Lambsburg)

Grayson County

Grayson County has been very proactive in pursuing solutions to its communities' broadband needs. In fall 2018, Grayson County issued an RFP for Broadband Services.

While a high level of detail on Grayson County's specific needs can be found in the RFP, a high level assessment is that most of the county is underserved or unserved.

- 77%, or 5,222 households have documented need for improved broadband
- Broadband is the number one need in the community. After Broadband, "Roads" are the number two need.
- Real estate sales and values are impacted by the degree to which broadband is available in a community.
- There is a potential growth opportunity for farmers to implement enabling technologies to better manage farm operations, but these technologies often require a broadband infrastructure
- Population retention & recruitment is a top priority for the Grayson County government. Broadband is considered #1 opportunity to solve this problem.



- As a former health care administrator, the County Administrator sees the value of connectivity to the entire population to improve health outcomes, especially in an area such as Grayson with a “graying population.”
- A lack of high speed communications is also contributing to the loss of young people after graduation.
- Areas of greatest need in the county (from current RFP):
 - Wilson & Elk Creek Districts; Mouth of Wilson, Rugby, East of Troutdale, Comers Rock
 - Providence, Elk Creek and Old Town; Elk Creek, Independence, Baywood
 - Wilson & Elk Creek Districts; East Mouth of Wilson, Buck Mountain, Big Ridge, Bridle Creek
 - Wilson District; West Mouth of Wilson, Whitetop
 - Providence, Old Town Districts; Fries, Baywood (east)
- Existing providers include:
 - CenturyLink
 - HughesNet and Exceed (WildBlue)
 - Comcast
 - Lingo (via Wired Road)
 - Citizens Telephone
- There are 13 total towers in the County but providers lack the incentive to upgrade.

“High speed communication is a driver and enabler for the community. After Broadband, ‘Roads’ are the number two need.” – Bill Shepley, Grayson County Administrator

Smyth County

Smyth County has some fiber assets in the area through Sunset but, like many other counties in the planning districts covered in this report, needs a last mile solution. The business community’s needs are not being met and are at risk of leaving.

Providers serving Smyth County include CenturyLink, Comcast, and Sunset. There are no competitive local exchange carriers in the area. Cell phone service is “totally unreliable” in certain areas (northern and southern bands of the county), but providers won’t locate off the towers in the area. The majority of the complaints are about CenturyLink’s service.



The communities within Smyth County with the greatest need are:

- Sugar Grove
- Rich Valley.

Washington County



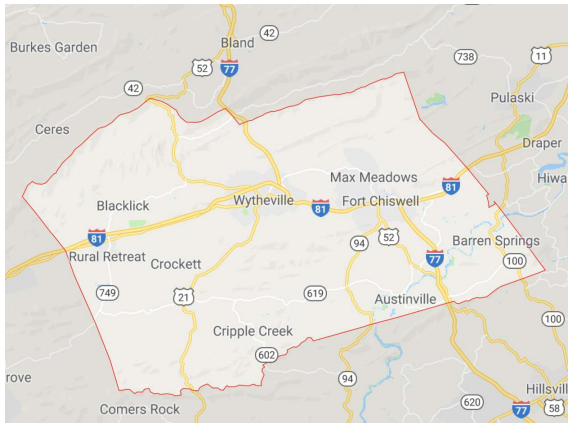
In Washington County, business needs are being met only along I-81 corridor and within the Town of Abingdon and the City of Bristol. Beyond a three-mile radius from that corridor, businesses are either underserved or unserved. Residential needs are even greater. Mendota, Glade Spring and Damascus are all in need of service. Complaints from residents are frequent.

Service providers include Sunset, Charter, CenturyLink, and Comcast. Cellular wireless providers include VZW, T-Mobile and AT&T.

The specific communities within the county with the greatest needs include:

- Mendota
- Glade Spring
- Damascus

Wythe County



In general, the industrial parks have good service. Businesses located along the transportation corridors are considered adequately served due to the amount of fiber available. However, residential coverage is spotty. The county has been suffering from economic stagnation in recent years. Historically, Wythe had been slowly growing while counties to the west were losing population. Only recently has the trend changed in Wythe as well. The current population is just over 29k.

The level of coverage in Wythe County varies depending on the part of the county. The denser areas (the eastern end of the county including Max Meadows and Austinville) have more coverage than less dense areas.

The current providers include CenturyLink and Shentel (which bought Rural Retreat Cable). Shentel offers “higher” speeds in Rural Retreat (up to 10 Mbps). The Chairman

of the BoS lives on Chapman road (the road running parallel to I-81/77 corridor (south side of Interstate) and is very dissatisfied with options and speeds available.

The Fort Chiswell/Lead Mines area is the one of greatest need. Also, the eastern end of the county is the largest growth area.

City of Galax

Galax is more dense than other areas with the planning district. Also, it is part of Wired Road and is a Regional Broadband Authority, so the businesses and residents' needs are being met for the most part.

- Big businesses include Albany Industries, Moag Industrial, Vaughn Bassett furniture company, etc. CrossRoads Facility is a business incubator, and XM Radio call center has about 150 employees.
- There are about 7,000 people over 8 square miles, so a bit denser than other areas in the planning district.
- Wired Road forced providers to upgrade and expand their networks
- Perceived positive impact on real estate (byers won't consider moving to homes without broadband)
- Important for small businesses' online sales
- Schools are seeing higher enrollments and were using Lingo, which is one of the Wired Road providers. They are now using CenturyLink.
- Galax is upgrading some cell towers to ensure reliability
- Fiber runs east up to Airport Road

The main regional service providers in Galax include:

- Comcast – up to 130 meg residential in some areas; has a retail store in downtown Galax.
- CenturyLink – up to 25 meg
- Wired Road RBA

7.2 Sources of Funding Appendix

National Funding

In December 2018, US Department of Agriculture (through RUS) announced a \$600 million grant and loan Broadband Program, ReConnect, to assist with building rural broadband infrastructure. Telecommunications companies, rural electric cooperatives and utilities, Internet service providers, and municipalities may apply for funding. To be eligible, communities must have populations smaller than 20,000 people with no broadband service or where service is slower than 10/1. Loan applications are due April and May 2019, depending on the program applied for.

State Level Awards Granted

The state of Virginia, through Governor Northam, is heavily invested in the vision of equitable broadband coverage throughout the state. The Governor's vision is statewide broadband coverage within 10 years. The two agencies that have deployed the most capital to support broadband connectivity are the Virginia Tobacco Region Revitalization Commission (Tobacco Commission) and the Virginia Department of Housing and Community Development (DHCD). Part of receiving funding is a requirement that communities/localities have a "granular plan" for ensuring coverage.

Virginia Coalfield Economic Development Authority (VCEDA)

VCEDA has been involved with regional broadband expansion efforts for many years. They have been a provider of capital for the LENOWISCO Fiber-to-the-Home initiative, the Cumberland Plateau Company network expansion, and the Virginia Coalfield Coalition 4g Wireless project.

VCEDA indicated that "the more broadband deployed in the region, the more economic development is enhanced."

VCEDA identified the following communities as high potential candidates for broadband deployment:

- Haysi
- Nickelsville
- US 460 (between Richlands and Vansant)
- Hurley
- Whitewood
- Clinchco.

Regional Awards Granted

Appalachian Regional Commission (ARC)

The Appalachian Regional Commission, or ARC, believes that “access to advanced telecommunications infrastructure for all Appalachian communities is essential for the Region to reach economic parity with the nation.”

ARC partners with public entities, non-profits, and the private-sector to spread access to telecommunications infrastructure and applications throughout the Region.

Specifically, ARC’s POWER program is a congressionally funded initiative that targets federal resources to help communities and regions that have been affected by job losses in coal mining, coal power plant operations, and coal-related supply chain industries due to the changing economics of America’s energy production. Virginia will receive 5 grants totaling more than \$2.8 million as part of this program.

One of the grants will go to Bland County (in the amount of \$459,764) for a 33-mile fiber build to businesses in the county. The fiber run will start in Rocky Gap, then south through Bastian, then to Bland. The fiber will run along the Route 52 corridor. Once the fiber construction is finished, an ISP partner will use wireless technology to reach additional locations off Route 52. The project will make Internet access available to 37 businesses, as well as Bland County Schools, the Board of Education offices and the Bland County Medical Clinic, a federally qualified health center.

Pending Applications at the Tobacco Commission

- Fiscal year 2019 pending last mile broadband applications to the Tobacco Commission for Southwest Virginia are outlined in the following table:

FY 2019 Last Mile Broadband - Pending Applications for SWVA

Req #	Organization	Project Title	Request Amount
3535	Carroll County Industrial Development Authority	The Wired Road/Carroll County Last Mile Neighborhood Pole Project	\$200,000
3531	Cumberland Plateau Company	Cleveland Broadband Expansion Project	\$544,137
3530	Grayson County	Connect Grayson	\$325,000
3522	Industrial Development Authority of Dickenson County	Honey Camp Last Mile Broadband	\$65,000
3519	Scott County Telephone Cooperative	Weber City Broadband Fiber-to-the-Home Initiative	\$1,500,000
3525	Tazewell County Industrial Development Authority	Tazewell County Wireless Service Authority Broadband Expansion Phase III	\$150,000
3527	Industrial Development Authority of Russell County VA	North Central Russell / South Buchanan Counties Broadband Expansion Project	\$1,900,000
Total Potential Funding for SWVA			\$4,684,137

Funding Strategy

Identify the highest potential providers of capital, including government and private sources, to fund the highest priority communities. Start at the regional level, then state, then national.

- Virginia Rural Broadband Planning Initiative (VRBPI)
- Connect America Fund
- Rural Utility Services
- Community Development Block Grants (CDBG)

Potential Funding Sources

The following table outlines a more comprehensive list of potential funding sources that have been identified by the Tobacco Commission.

Source	Opportunity	Brief Description	Application Timeline
State Funding Opportunities			
Department of Housing and Community Development (DHCD)	Community Development Block Grant Planning Grant http://www.dhcd.virginia.gov/index.php/community-partnerships-dhcd/79-community-development-block-grant-cdbg-planning-grant.html	Funds available for 3 areas: planning grants, local innovation grants, implementation and economic development, and large scale local level projects.	January – September
Department of Housing and Community Development (DHCD)	Virginia Telecommunication Initiative http://www.dhcd.virginia.gov/	Provides financial assistance to supplement construction costs by private sector providers to extend services to areas that are presently unserved by any broadband provider. Definition of unserved; speeds <= 10 Mbps/1 Mbps. Eligible applicants: towns, cities, counties, EDA/IDA, broadband/wireless authorities, PDC, etc.	Fall

Virginia Tobacco Region Revitalization Commission	TRRC Last-mile Grant and Loan Fund https://www.revitalizeva.org/grant-loan-program/grant-programs/research-development-grant-program/	Provides grants and loans to public/private partnerships between localities and ISPs to construct projects within its service area.	Announced annually
Virginia Resources Authority (VRA)	Virginia Pooled Financing Program http://www.virginiaresources.org/page/virginia-pooled-financing-program/	Provides financing to local governments for essential projects. All VRA's authorized project areas are eligible for financing in the Virginia Pooled Financing Program (VPFP). Since inception in 2003, over 100 local governments in Virginia have utilized this program to finance or refinance over \$2 billion in infrastructure projects.	Multiple windows annually

Federal Funding Opportunities

United States Department of Agriculture Rural Development (USDA)	Community Connect Grant program https://www.rd.usda.gov/programs-services/community-connect-grants	This program helps fund broadband deployment into rural communities where it is not yet economically viable for private sector providers to deliver service.	Announced periodically
United States Department of Agriculture Rural Development (USDA)	Rural Broadband Access Loan and Loan Guarantee https://www.rd.usda.gov/programs-services/rural-broadband-access-loan-and-loan-guarantee	This program offers financial assistance to eligible applicants that will construct, improve, or acquire facilities and equipment needed to provide service at the broadband lending speed as defined in the most recent funding announcement in eligible rural areas.	Announced periodically
United States Department of Agriculture Rural Development (USDA)	Telecommunications Infrastructure Loans & Loan Guarantees https://www.rd.usda.gov/programs-services/telecommunications-	This program provides financing for the construction, maintenance, improvement and expansion of telephone service and broadband in rural areas.	Applications are accepted on a continuing basis

	infrastructure-loans-loan-guarantees		
United States Department of Agriculture Rural Development (USDA)	Distance Learning and Telemedicine Program https://www.rd.usda.gov/programs-services/distance-learning-telemedicine-grants	This program helps rural communities use telecommunications to connect to each other and to the world for the purposes of distance learning and telemedicine.	Announced periodically
United States Department of Agriculture Rural Development (USDA)	Community Facilities Direct Loan & Grant Program https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program	This program provides affordable funding to develop essential community facilities in rural areas.	Applications are accepted on a continuing basis
Federal Communications Commission (FCC)	Connect America Fund https://www.fcc.gov/general/connect-america-fund-caf CAF I, \$1.5B over 10 years to 103 companies. CAF II \$1.98 B over 10 years. Bidding ended 8/2018. Awards pending.	Provider funding for FCC eligible areas only. Eligible areas map: https://www.fcc.gov/reports-research/maps/connect-america-phase-ii-initial-eligible-areas-map/	No longer active for new bidders.
Federal Communications Commission (FCC)	FCC Mobility Fund Phase II https://www.fcc.gov/mobility-fund-phase-2	The FCC plans to make up to \$4.53 billion in funding available to mobile operators that are building out 4G LTE networks to underserved rural markets. The funding will be made available over a 10-year period. Operators that receive the support from the auction will build out 4G LTE mobile service that will deliver at least 10 Mbps to customers in markets that lack access to unsubsidized 4G LTE.	Not yet active
Federal Communications Commission (FCC)	E-Rate Funding http://www.fcc.gov/encyclopedia/e-rate-schools-libraries-usf-program	The schools and libraries universal service support program, commonly known as the E-Rate program, helps schools and libraries to obtain affordable broadband.	Winter-Spring
Universal Service Administration Co. (USAC)	Lifeline Support https://www.usac.org/li/	Lifeline is a federal program that lowers the monthly cost of phone and Internet for eligible customers. Participating companies in Virginia: http://www.lifelinesupp	Applications are accepted on a continuing basis

		ort.org/ls/companies/CompanyListing.aspx?state=VA&stateName=Virginia	
Universal Service Administration Co. (USAC)	Rural Health Care – Healthcare Connect Fund https://www.usac.org/rhc/healthcare-connect/default.aspx	This program provides a 65 percent discount on eligible expenses related to broadband connectivity to both individual rural health care providers (HCPs) and consortia, which can include non-rural HCPs, if the consortium has a majority of rural sites.	Winter - Summer
Universal Service Administration Co. (USAC)	Rural Health Care – Telecommunications Program https://www.usac.org/rhc/telecommunications/default.aspx	This program provides reduced rates to rural health care providers (HCPs) for telecommunications services related to the use of telemedicine and telehealth.	Winter - Summer
US Economic Development Administration (EDA)	Planning Program and Local Technical Assistance Program https://www.grants.gov/web/grants/view-opportunity.html?oppld=301936	This program assists eligible recipients in developing economic development plans and studies designed to build capacity and guide the economic prosperity and resiliency of an area or region.	Applications are accepted on a continuing basis
US Economic Development Administration (EDA)	Public Works and Economic Adjustment Assistance Programs https://www.grants.gov/web/grants/view-opportunity.html?oppld=294771	Grants made under this program will leverage regional assets to support the implementation of regional economic development strategies designed to create jobs, leverage private capital, encourage economic development, and strengthen America's ability to compete in the global marketplace.	Applications are accepted on a continuing basis
Department of Education (DOE)	Promise Neighborhoods Competition http://www2.ed.gov/programs/promiseneighborhoods/index.html	This program provides funding to support eligible entities to significantly improve the educational and developmental outcomes of children and youth in our most distressed communities.	Spring
Appalachian Regional Commission (ARC)	ARC Project Grants https://www.arc.gov/funding/arprojectgrants.asp	ARC funds a number of telecommunications activities, including strategic community planning, equipment	Announced annually

		acquisition, and hardware and software for network building. ARC funds can be used for strategic telecommunications planning activities, telecommunication service inventory and assessment activities, aggregation of demand projects, among other activities.	
Federal Reserve	Community Reinvestment Act (CRA) https://www.dallasfed.org/cd/pubs/digitaldivide.aspx	The Federal Reserve has issued guidance on how to leverage a bank's CRA resources in digital equity initiatives.	Ongoing
Tribal Funding Opportunities			
U.S. Department of Housing and Urban Development (HUD)	Indian Community Development Block Grant http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/icdbg	Provides funds to eligible grantees for housing rehabilitation, land acquisition, community facilities, infrastructure construction, and economic development activities. Eligible applicants for assistance include any Indian tribe, band, group, or nation.	Winter
U.S. Department of Housing and Urban Development (HUD)	Indian Housing Block Grant (IHBG) program http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/ihbg	The provision of broadband is eligible under this program. Eligible IHBG recipients are Federally recognized Indian tribes or their tribally designated housing entity (TDHE), and a limited number of state recognized tribes who were funded under the Indian Housing Program authorized by the United States Housing Act of 1937 (USHA).	Winter
Institute of Museum and Library Services	Native American Library Services https://www.ims.gov/nofo/native-american-library-services-basic-grants-fy16-notice-funding-opportunity	Basic Grants are available to support existing library operations and to maintain core library services. Indian tribes, Alaska native villages, regional corporations, and village corporations are eligible to apply for funding under the Native American Library Services grant program.	Spring

7.3 Addressable Market Appendix

Market Overview

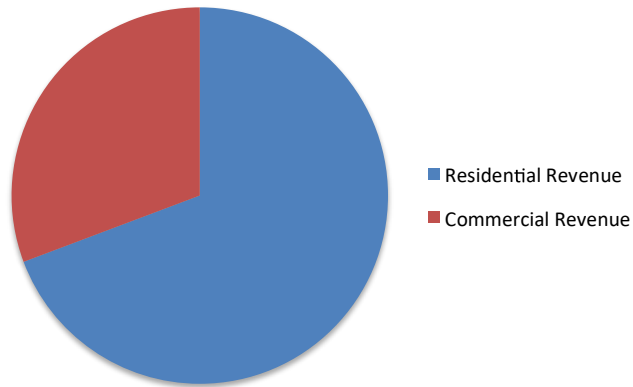
The telecommunications market in Southwest Virginia is estimated at \$289 Million annually for voice, video, data, and wireless services. This estimate is based on the following key factors:

Key Economic Index Factors	SWVA Region
Residential	
Population (2018)	401,745
Households (BRASG 2018 Estimate)	84,270
Median Household Income (BRASG 2018 Estimate)	\$38,945
Economic Index (Income Relative to US)	68%
Economic Index (Income Relative to VA)	56%
Commercial	
Businesses (BRASG Estimate)	7,430
Employment (BRASG Estimate)	49,423

On average, approximately 4% of household income is spent on all communication services.

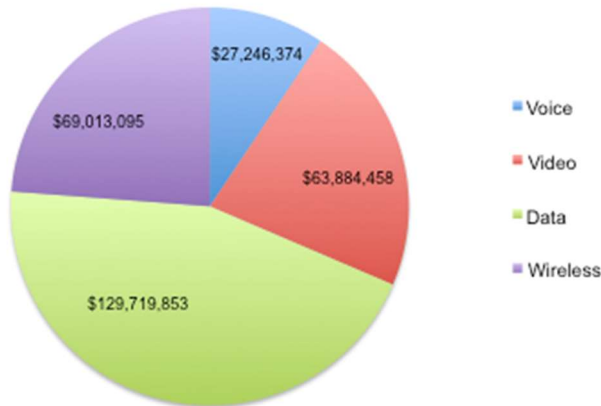
The overall market is roughly split between 31% commercial and 69% residential services.

Total Revenue – Residential vs. Commercial



By service, the revenue distribution is outlined in the following table, with broadband services driving most of the growth:

Total Annual Telecom Revenue at Year 1



The important market dynamics that will influence this addressable market are threefold:

1. **Cable TV Cord Cutting.** As wireless service becomes more reliable and ubiquitous, and as broadband becomes more available, there will be a continued defection not only from landline voice to wireless but also from cable tv to digital, a-la-carte streaming services. Cisco predicts that nearly four-fifths (79 percent) of the world’s mobile data traffic will be video by 2022.
2. **Mobile Data Demand.** The explosion in mobile data demand only continues. It grew 23% in 2017 in North America. The increasing number of wireless devices and connections will continue to drive the surge in demand for wireless data.

3. **5G Technology.** The evolution of 5th Generation, or 5G, networks, holds the promise to deliver faster speeds. However, it is likely that rural areas such as Southwest Virginia may be last in line to see the carriers upgrade, as they will target the larger markets initially. A strong fiber backbone will still be needed to service the 5G network. 4G will carry most of the traffic for the next 10 years or so.

These trends will drive demand for expanded fiber and wireless-dependent services in the region, presenting an opportunity for service providers. However, the issue remains. The associated costs of upgrading networks to meet that demand is still extremely high due to the low population densities and challenging geography of the region. Regional leaders must find ways to partner with providers to bridge the gap so that their communities are not left behind.

7.4 Service Provider Appendix

Following is a brief description of the regional service providers and their capabilities:

Burkes Garden Telephone Company

Burkes Garden Telephone Company (BGTCO) is a small, investor-owned telephone company offering “triple-play” services via a fiber-optic system of approximately 72 fiber miles. The service area is tucked in the eastern edge of Tazewell County, adjacent to Bland County, Virginia. BGTCO migrated from copper to fiber over approximately two years.

The service area covers approximately 75 Sq. Miles from the top of Rich Mountain through Little Creek through Burkes Garden. The service area sits within a crater-like bowl with a mountain ridge totally surrounding the region. The customer count includes 160 full-time with as many as 185 during the summer season. Approximately 100 customers receive broadband, which equates to a take rate of 62%.

GPON and active Ethernet are utilized to serve these customers providing 15/10 Mbps service priced at \$32.95/mo. There are no business customers on the system and approximately 13 or 14 customers are considered to be Amish and as such only utilize the telephone service.

Charter Communications

Charter / Spectrum is the second largest cable provider in the United States (third largest multi-channel video service provider when AT&T / DirecTV are considered) but has limited network operations in Southwest Virginia. Spectrum’s local network is primarily in Buchanan and Tazewell counties, with some network in Russell County. Charter has an operational office in Richlands, with a head-end site in Cedar Bluff. Spectrum’s network covers the Town of Tazewell, a good portion of Tazewell County, Grundy, and Richlands. Charter utilizes a hybrid-fiber-coaxial cable network architecture. 100 MBPS asynchronous service is Charter’s standard/basic service at \$44.99 per month. This price is dependent upon various bundling schemes.

Citizens Telephone Cooperative

Citizens is a regional ILEC with full-service communications offerings, including land-line telephone, VoIP, IPTV Video, web and e-mail hosting, DSL, and FTTP (Fiber to the Premise, and Business Ethernet. Citizen’s serves portions of 7 counties in Southwest Virginia. Based in Floyd, Virginia, Citizens network is still 90% copper based, but they are rolling out gigabit FTTP.

There is some overlap of their services and a few counties within PDC’s 1, 2, &3, including Carroll County, Grayson County, and Wythe County. Citizens’ network stops at the Smyth County line. Their fiber runs from 58 to 16 (BVU/Sunset) and 221 to Sparta. They just completed a build on 221 (North) to Roanoke Co., passing over 1,000 homes with FTTH.

Century Link

CenturyLink is the incumbent local exchange carrier in many parts of the study region. CenturyLink still has their legacy network in place and have not invested in upgrading their network. As a result, customer satisfaction rates due to speed and reliability, were low across the board. The biggest complaint related to customer service and the perception of a total “lack of response.”

Comcast

Comcast is the largest cable provider in the United States (second largest multi-channel video service provider when AT&T / DirecTV are considered). Comcast operates a hybrid-fiber-coaxial system throughout the study area. Comcast is doing little in terms of upgrades, with some limited upgrades in PDC 1. In PDC 2, one respondent placed Comcast quality of service at the middle of the pack of the 5 service providers available in that area. Another respondent in the northwestern portion of PDC 2 listed Comcast as “adequate” with 4 stars. Still another official in the southwestern portion of region 3 gave Comcast high marks for quality of service.

CPC Broadband

CPC Broadband (formerly CPC OptiNet) is a subsidiary company of the Cumberland Plateau PDC. It was organized to serve Russell, Dickenson, Tazewell, and Buchanan Counties. Partnering with Bristol Virginia Utility's OptiNet division (now Point Broadband) the Company has obtained over \$37 million in grant funding for the construction of 700 miles of fiber optic broadband backbone that is now serving almost 900 industrial, commercial, governmental and educational institutions in the region.

iGo Technologies

iGo, founded in 1994, is a Virginia-based Internet service company, providing wireless and fiber high speed Internet service to its customers who include residential and commercial clients, individuals and small to mid-size and large business. In 2017, iGo also began offering telephone service to its Internet customers.

iGo coverage areas include parts of Buchanan, Russell, Tazewell, Washington and Wise counties, with additional operations in Tennessee and West Virginia. iGo utilizes one VCC tower to reach unserved residents of the region.

iGo is mainly a fixed wireless provider with 6-8 towers, 520 customers, and 12 employees. Although existing customers are mostly wireless, iGo has successfully competed for USDA Community Connect grants for FTTH build outs. They are underway with a \$1.78M project awarded in 2016 which will include 21 miles of fiber in the Buchanan County area north of Oakwood.

In 2017, they were awarded an additional \$3.0M project for a buildup Garden Creek Rd toward Honaker. iGo was just awarded \$455,581 to extend the build into Russell County and add interconnection with SCTC along Virginia Route 624.

The current build includes 468 customers passed. iGo is an essential element of solving the problem of unserved residents in the region.

Gigabeam Networks

Gigabeam Networks, a wireless Internet service provider, or WISP, provides service in Southwest Virginia, West Virginia and southeastern Kentucky. Their network is completely wireless, including the backhaul. Gigabeam is a small entrepreneurial venture owned by Michael Clemens. They have approximately 200 subscribers in Bland and utilize towers throughout the county. Their service packages include \$79/mo. for 50 meg and \$30 for 25 meg.

HillCom

HillCom, Inc is a family-owned wireless Internet service provider located in Dickenson County. The company started in 2016 out of necessity when a local resident was unable to access adequate Internet service but was able to create his own wireless broadband network solution. By 2017, HillCom had responded to neighbors requesting the service and grew to 20 customers. They then purchased DCWin (Dickenson County Wireless) and now have approximately 600 customers (95% in Dickenson County), with a mission to provide service to the entire county.

Most of the service requests HillCom receives are from the following areas within the county:

- Lick Creek
- Honey Camp
- Breaks

Point Broadband

Formerly BVU OptiNet, Point Broadband was organized in 2018 as the combination of Duffield-based Sunset Digital and Bristol-based BVU OptiNet. The organization is part of a family of telecommunications enterprises headquartered in West Point, Georgia called ITC Holding Company, LLC. ITC began as The West Point Telephone and Electric Company, founded in 1896. Point Broadband is in the process of an organization period, and their exact strategy is unknown. As with many other providers in the region, Point Broadband is attempting to determine how to affordably build out and maintain their network. Point Broadband is the recipient of a multi-million-dollar CAF II award for the study region including Lee County, and the Cumberland Plateau counties of Dickenson, Russell, and Tazewell.

Scott County Telephone Cooperative

Scott County Telephone Cooperative (SCTC), a local provider headquartered in Gate City, is a key player in the region. It serves 420 square miles of Scott County with some service in Tennessee. Their current service territory includes parts of Russell, Wise, Dickenson, and Lee Counties, and the City of Norton. They provide voice, video, and data Voice,

video, data, and security, primarily over a traditional copper/ILEC network but have been upgrading to eventually deploy and utilize an all fiber network to provide enhanced broadband services.

Using primarily grant funding, SCTC has upgraded about 100 miles of its network to fiber, with builds to 5 exchanges in the following areas:

- Ft. Blackmore
- Duffield
- Nickelsville
- Dungannon
- Clinchport

SCTC has approximately 7,000 access lines (about 5,000 in ILEC area and 2,000 in CLEC area). Additionally, they have about 7,000 high speed Internet customers.

Shentel

Shentel, or Shenandoah Telecommunications Company, is a publicly traded telecommunications company headquartered in Edinburg, Virginia. Shentel has digital wireless and wireline network in rural Virginia, West Virginia, Maryland and Pennsylvania. Shentel is also an affiliate of Sprint with wireless coverage in Pennsylvania, Maryland, Virginia, West Virginia, Kentucky and Ohio. It owns its own cell site towers built on leased land and leases space on these towers to both affiliates and non-affiliated service providers. Shentel has invested over \$200 million in the past two years upgrading and expanding its wireless networks, primarily in rural markets. Shentel also provides fiber services to commercial and wholesale customers along its 5,641-mile fiber network across four states.

Shentel's cable segment provides video, Internet and voice services in franchise areas in Virginia, West Virginia, and portions of western Maryland and leases fiber optic facilities throughout its service area. It does not include video, Internet and voice services provided to customers in Shenandoah County, Virginia.

Shentel's wireline segment provides regulated and unregulated voice services, DSL Internet access and long-distance access services throughout Shenandoah County and portions of Rockingham, Frederick, Warren and Augusta Counties, Virginia. The segment also provides video services in portions of Shenandoah County and leases fiber optic facilities throughout the northern Shenandoah Valley of Virginia, northern Virginia and adjacent areas along the Interstate 81 corridor, including portions of West Virginia and Maryland.

Shentel has over 5,400 fiber route miles with fiber to over 325 cell sites, but with network in only Carroll and Russell counties. It has cable plant in Lebanon, Honaker, Swords Creek, Rye, Dante, Wytheville, and Rural Retreat.

Shentel does not actively pursue grant funding, as they have not been very successful in the past doing so.

Wired Road

The Wired Road Authority is a collaborative effort between private sector service providers, the local governments of Grayson County, Carroll County, and the City of Galax, and the Carroll-Grayson-Galax Regional Industrial Facilities Authority (dba Blue Ridge Crossroads Economic Development Authority). Its purpose is to provide the critical enabling infrastructure to transform the regional economy into a dynamic, small business, and entrepreneurial economy. This transformation, enabled by The Wired Road and a complementary economic development focus on attracting and supporting entrepreneurs and small businesses, will allow the region's economy to spawn new businesses, generate jobs, create wealth, and protect the rural character of our region.

The Wired Road network has been in operation for over ten years and is a true public/private partnership with two service providers offering last mile services on the network. The Wired Road is an open access, fully integrated fiber and wireless regional broadband network offering "big broadband" 100 megabit and Gigabit fiber connections and multi-megabit wireless connections in Carroll County, Grayson County, and Galax.

Currently, the Wired Road is finishing a network extension which will connect fiber in Galax with fiber in Hillsville. It is also expanding its wireless coverage and constructing "community poles" to get service to areas that couldn't be reached before. Fiber Wireless Providers

The bill will allow Dominion Energy and Appalachian Power to provide or make available broadband capacity to service providers in unserved areas. It also authorizes the utility to own or lease broadband capacity equipment.

With existing infrastructure that already serves almost every resident and business in rural areas, utilities are uniquely positioned to bridge the gap between middle mile networks and last mile consumers.

References

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September 9, 2021

Tamarah Holmes
Director, Office of Broadband
Department of Housing and Community Development
Main Street Centre
600 East Main Street
Suite 300
Richmond, VA 23219

Dear Dr. Holmes,

I am writing to affirm Point Broadband's support and commitment to the 2021 Mount Rogers Universal Broadband Project. Point Broadband is proud to be a partner in the project application. The proposal includes VATI funding request of \$66,446,228 and is to be matched by Point Broadband's \$33,615,600 of private capital.

Sincerely,

Robert Joseph Puckett
Regional General Manager