

L E N O W I S C O P L A N N I N G D I S T R I C T C O M M I S S I O N

October 29, 2021

Virginia Department of Conservation and Recreation
Attn: Virginia Community Flood Preparedness Fund
Division of Dam Safety and Floodplain Management
600 East Main Street, 24th Floor
Richmond, Virginia 23219

To whom it may concern:

On behalf of our member localities, the LENOWISCO Planning District Commission hereby authorizes and presents the attached Planning and Capacity Building proposal for funding consideration.

The attached support letters from member localities represent their respective authorizations for the Commission to seek these CFPF funds in their behalf.

This correspondence further confirms that a waiver of the CFPF grant matching requirements – reflecting overall fiscal stresses in this corner of the Commonwealth – is requested herein. In the absence of such waiver, the Commission will supply the necessary cash match in its localities' behalf.

We respectfully request your favorable consideration of this important investment in our region. Should you have any questions or need additional information, please feel free to contact me.

Sincerely,



DUANE A. MILLER
Executive Director



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Virginia Planning District One • Serving Lee-Norton-Wise-Scott

Appendix A: Application Form for Grant Requests for All Categories

Virginia Department of Conservation and Recreation
Virginia Community Flood Preparedness Fund Grant Program

Name of Local Government:

LENOWISCO Planning District Commission

(Letters of support provided by: Counties of Lee, Scott, and Wise; City of Norton;
Towns of Appalachia, Big Stone Gap, Dungannon, Gate City, and Pennington Gap.)

Category of Grant Being Applied for (check one):

Capacity Building/Planning

Project

Study

Lee County: 510085
Scott County: 510142
Wise County: 510174
City of Norton: 510108
Town of Appalachia: 510319
Town of Big Stone Gap: 515521
Town of Dungannon: 510144
Town of Gate City: 510145
Town of Pennington Gap: 510087

NFIP/DCR Community Identification Number (CID) _____

If a state or federally recognized Indian tribe, Name of tribe N/A

Name of Authorized Official: Duane Miller, Executive Director, LENOWISCO PDC

Signature of Authorized Official:  _____

Mailing Address (1): 372 Technology Trail Ln, Suite 101

Mailing Address (2): _____

City: Duffield **State:** VA **Zip:** 24244

Telephone Number: (276) 431-2206 **Cell Phone Number:** ()

Email Address: dmiller@lenowisco.org

Contact Person (If different from authorized official): N/A

Mailing Address (1): _____

Mailing Address (2): _____

City: _____ State: _____ Zip: _____

Telephone Number: (____) _____ Cell Phone Number: (____) _____

Email Address: _____

Is the proposal in this application intended to benefit a low-income geographic area as defined in the Part 1 Definitions? Yes No

Categories (select applicable project):

Project Grants (Check All that Apply)

- Acquisition of property (or interests therein) and/or structures for purposes of allowing floodwater inundation, strategic retreat of existing land uses from areas vulnerable to flooding; the conservation or enhancement of natural flood resilience resources; or acquisition of structures, provided the acquired property will be protected in perpetuity from further development.
- Wetland restoration.
- Floodplain restoration.
- Construction of swales and settling ponds.
- Living shorelines and vegetated buffers.
- Structural floodwalls, levees, berms, flood gates, structural conveyances.
- Storm water system upgrades.
- Medium and large scale Low Impact Development (LID) in urban areas.
- Permanent conservation of undeveloped lands identified as having flood resilience value by *ConserveVirginia* Floodplain and Flooding Resilience layer or a similar data driven analytic tool.
- Dam restoration or removal.
- Stream bank restoration or stabilization.
- Restoration of floodplains to natural and beneficial function.
- Developing flood warning and response systems, which may include gauge installation, to notify residents of potential emergency flooding events.

Study Grants (Check All that Apply)

- Studies to aid in updating floodplain ordinances to maintain compliance with the NFIP or to incorporate higher standards that may reduce the risk of flood damage. This must include establishing processes for implementing the ordinance, including but not limited to, permitting, record retention, violations, and variances. This may include revising a floodplain ordinance when the community is getting new Flood Insurance Rate Maps (FIRMs), updating a floodplain ordinance to include floodplain setbacks or freeboard, or correcting issues identified in a Corrective Action Plan.
- Revising other land use ordinances to incorporate flood protection and mitigation goals, standards and practices.
- Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA). For example, a local government might conduct a hydrologic and hydraulic study for an area that had not been studied because the watershed is less than one square mile. Modeling the floodplain in an area that has numerous letters of map change that suggest the current map might not be fully accurate or doing a detailed flood study for an A Zone is another example.
- Studies and Data Collection of Statewide and Regional Significance.
- Revisions to existing resilience plans and modifications to existing comprehensive and hazard.
- Other relevant flood prevention and protection project or study.

Capacity Building and Planning Grants

- Floodplain Staff Capacity.
- Resilience Plan Development
 - Revisions to existing resilience plans and modifications to existing comprehensive and hazard mitigation plans.
 - Resource assessments, planning, strategies and development.
 - Policy management and/or development.
 - Stakeholder engagement and strategies.

Location of Project (Include Maps): LENOWISCO Planning District

NFIP Community Identification Number (CID#):(See appendix F

Lee County (510085); Scott County (510142); Wise County (510174); Norton (510108); Appalachia (510319); Big Stone Gap (515521); Dungannon (510144); Gate City (510145); Pennington Gap (510087)

Is Project Located in an NFIP Participating Community? Yes No

Is Project Located in a Special Flood Hazard Area? Yes No

(See Appendix D of application for description of flood risk areas and maps.)

Flood Zone(s) (If Applicable): This proposal covers a region.
Please see Appendix D of application for details.

Flood Insurance Rate Map Number(s) (If Applicable): This proposal covers a region.
Please see Appendix D of application for details.

Total Cost of Project: \$150,000

Total Amount Requested \$150,000
(Waiver of cash match requested; please see cover letter for details.)

Capacity Building and Planning Application

Capacity Building for Flood Resilience in Southwest Virginia -- Phase 1: Benchmarking Community Flood Resilience for the LENOWISCO Planning District Commission

Prepared by the University of Virginia (UVA) for the LENOWISCO Planning District Commission (PDC), representing the Counties of Lee, Wise, Scott; City of Norton; and the Towns of Appalachia, Big Stone Gap, Dungannon, Gate City, and Pennington Gap

Please see Appendix A for Application and Appendix B for Checklist and Scoring Criteria.

Scope of Work Narrative

Introduction

Like many communities and regions across Virginia, the effects of climate change and increasing flooding events are having devastating impacts on communities in the Southwest region of Virginia. The repercussions and cascading effects of flooding events in this region are not limited to local impacts on public safety and roads, community livability, and economic viability; they impact vital regional and statewide economic and transportation corridors as well.

In Virginia, Planning District Commissions are required by law "...to encourage and facilitate local government cooperation and state-local cooperation in addressing on a regional basis problems of greater than local significance." LENOWISCO Planning District Commission manages its planning district's hazard mitigation plan as well as certain transportation, land use, and economic development policies. Flooding is a hazard that doesn't respect jurisdictional boundaries or policies and has far-reaching impacts. For this reason, **LENOWISCO PDC, in partnership with the University of Virginia, is taking the lead to coordinate and support their regional communities as they prepare for the future development and implementation of coordinated resilience plans.** (See Appendix C for Letters of Support.)

Proposal

This request is the product of a partnership between the University of Virginia and LENOWISCO Planning District Commission, on behalf of the Counties of Lee, Wise, and Scott, the City of Norton, and the Towns of Appalachia, Big Stone Gap, Dungannon, Gate City, and Pennington Gap, to conduct an initial scoping and benchmarking effort. We propose taking a *whole community* approach to assess what resources and elements of flood resilience plans this region has in hand already to identify gaps that need to be addressed and to develop initial roadmaps to fill those gaps. The proposed scope of work includes:

- **Conduct flood risk analysis under current and near-future climate conditions** to identify today's and tomorrow's flooding hotspots, to understand flooding mechanisms, to assess the capability of current infrastructure and flood control measures, and to identify and map vulnerable communities.
- **Inventory and evaluate the status of existing data, plans, policies, and resources** that are necessary to inform the development of successful resilience plans. Identify gaps in information.
- **Evaluate "soft" capacities** in each community. Assess staff knowledge, skills, and abilities, as well as training, resource capacity, certification (Certified Floodplain Manager), and succession planning needs.
- **Examine current channels of community engagement.** Conduct stakeholder mapping exercises and evaluate how existing channels of engagement can be improved and expanded to ensure diverse perspectives are included and equity is addressed throughout the planning process.
- **Interview stakeholders and community leaders** in order to gain a better understanding of the cascading effect of flood events and to identify equitable ways of ensuring benchmarking and future planning reflects diverse interests.
- **Develop a roadmap and timeline** for the preparation of future Virginia Community Flood Preparedness Fund (VCFPF) planning, studies, and projects grant applications.

This project is designed to yield direct, tangible benefits to localities in the LENOWISCO PDC, all of which are inland, low-income geographic areas challenged by riverine flooding risks. See Appendix D for project area maps, locality flood risk details, and evidence of recurring flooding in the region.

Through this project, these communities will receive valuable, critically needed technical assistance and gain a better understanding of the flood risks they are facing, available resources, and gaps in capacity and needed information. Reports from these scoping efforts will be used to inform future proposals for additional funds to carry forward the work needed to fill the gaps and prepare complete resilience plans that embody effective and coordinated strategies for managing flood risks.

Need for Assistance

Responding to and planning for growing flood risks is difficult for any community. These challenges are especially acute for low-income, historically disadvantaged, underserved communities where local governments and regional planning commissions may not have the in-house capacity to access and effectively utilize all available resources in addressing the complex issues related to flooding. An article in *The Virginian-Pilot* (3 July 2021) notes that one state official “was concerned that some larger localities, those with more staff, would have a leg up when applying for these grants.” He said, “...**we would like to spend money on bringing localities that aren’t in as advantageous of a place up to higher standards in their capacity to apply for grants and to understand the needs for their communities.**”¹

Responsive to the issue raised by the state official, this proposal has at its foundation the goal of providing much-needed project development and technical capacity to inland, low-income localities so that they may have the support and resources needed to access and use VCFPF grants to build capacity for flood resilience.

The LENOWISCO PDC is a low-income area that is socially vulnerable. This can be confirmed for each of the four localities comprising the PDC as well as for the PDC as a whole by first averaging ADAPT VA Social Vulnerability Index (SVI) scores across all census tracts within a locality (to obtain an average SVI score for each of the four PDC localities) and then by averaging all four of the locality SVI scores to obtain an **average SVI score for the PDC as a whole (0.7, moderate social vulnerability)**. It is important to note that some census tracts and towns within each locality have a degree of social vulnerability that is greater than that represented by the locality and PDC averages. (Please see Tables 1-4 below.)

Each of the four localities within the LENOWISCO PDC qualifies as a low-income geographic area as defined in the 2021 VCFPF Grant Manual, and each is associated with at least one federally designated Opportunity Zone.

This application requests much-needed financial support to enable these localities to begin the process of resilience planning and capacity building in collaboration with the LENOWISCO Planning District Commission.

(Please see Appendices E-H for supporting documentation.)

¹ Couto, Peter, “With new funding pouring in, Virginia flood program readies for first round of projects,” *The Virginian Pilot*, July 3, 2021.

Lee County

Census Geography: Lee County is composed of six 2010 census tracts (9501, 9502, 9503, 9504, 9505, and 9506). Pennington Gap is a town within Lee County (census tracts 9501, 9502, and 9503) that is also participating in this benchmarking project.

Note: Because *Adapt Virginia's Vulnerability Viewer* uses 2010 census geography to display SVI scores, we do the same in this application.

Social Vulnerability Index (SVI) Scores: *Adapt Virginia's Vulnerability Viewer* indicates that one of Lee County's six 2010 census tracts (9503) has a "very high" SVI score (1.6), one (9505) has a "high" SVI score (1.2), and the remainder of census tracts have "moderate" SVI scores ranging from 0.4 (tract 9504) to 0.6 (tract 9502) to 0.7 (tracts 9501 and 9506). **The average SVI score for all of Lee County's census tracts combined is 0.87 (moderate).** (See Table 1 below and Appendix E for *Virginia Vulnerability Viewer* maps.)

Housing Characteristics: According to *Adapt Virginia*, all census tracts in Lee County have a high percentage of mobile homes and homes with low values and rents. Many of Lee County's census tracts also have vacant housing, housing without plumbing, and long-term homeowners.

Table 1 – Lee County Social Vulnerability Index Scores and Housing Characteristics

Census Tract	Social Vulnerability Index Score	Social Vulnerability Index Score Classification	Town(s) Within Census Tract	Housing Characteristics
9501	0.7	Moderate	Pennington Gap	high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
9502	0.6	Moderate	Pennington Gap	high percentage of mobile homes; low values and rents
9503	1.6	Very High	Pennington Gap	high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
9504	0.4	Moderate		high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
9505	1.2	High		high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
9506	0.7	Moderate		high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
Average	0.87	Moderate		

Source: Adapt Virginia, Virginia Vulnerability Viewer and authors' calculations

Household Income and Opportunity Zone Designation: According to American Community Survey (ACS) five-year estimates (2015-2019), median household income in Lee County is \$32,888, which is only 44 percent of median household income for the Commonwealth of Virginia as a whole (\$74,222). **This qualifies Lee County as a “low-income geographic area” as defined in the 2021 VCFPF Grant Manual.** Additionally, census tract 9505 in Lee County qualifies as a federally designated Opportunity Zone.

See Appendix E for maps and supporting documentation.

Scott County

Census Geography: Scott County consists of six 2010 census tracts (301, 302, 303, 304, 305, and 306). Towns within Scott County participating in this benchmarking project include Dungannon (census tract 303) and Gate City (primarily census tract 301, with a small part of the town in tract 306).

Social Vulnerability Index (SVI) Scores: Census tracts in Scott County have Social Vulnerability Index (SVI) scores that range from moderate to high. **The average SVI score for Scott County overall is 0.78 (moderate).** (See Table 2 below and Appendix F for *Virginia Vulnerability Viewer* maps.)

Housing Characteristics: All census tracts in Scott County are characterized by *Adapt Virginia* as having a high percentage of mobile homes, low home values and rents, and long-term homeownership. Most tracts also have some vacant homes as well as homes without plumbing.

Table 2 – Scott County Social Vulnerability Index Scores and Housing Characteristics

Census Tract	Social Vulnerability Index Score	Social Vulnerability Index Classification	Town(s) Within Census Tract	Housing Characteristics
301	0.5	Moderate	Gate City (primary tract)	high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
302	1.0	Moderate		high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
303	0.9	Moderate	Dungannon	high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
304	0.8	Moderate		high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
305	0.4	Moderate		high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
306	1.1	High	Gate City (small portion)	high percentage of mobile homes; low values and rents; long-term owners
Average	0.78	Moderate		

Source: Adapt Virginia, Virginia Vulnerability Viewer and authors' calculations

Household Income and Opportunity Zone Designation: According to American Community Survey five-year estimates (2015-2019), median household income in Scott County is \$39,820, which is 54 percent of Virginia's median household income (\$74,222). **This qualifies Scott County as a “low-income geographic area” as defined in the 2021 VCFPF Grant Manual.**

Additionally, census tract 306 in Scott County qualifies as a federally designated Opportunity Zone. A very small portion of Gate City lies within this Opportunity Zone.

See Appendix F for maps and supporting documentation.

Wise County

Census Geography: Wise County is composed of eleven 2010 census tracts (9307, 9308, 9309, 9310, 9311, 9312, 9313, 9314, 9315, 9316, and 9317). Towns within Wise County participating in this benchmarking project include Appalachia (census tract 9311) and Big Stone Gap (census tracts 9312 and 9313).

Social Vulnerability Index (SVI) Scores: Census tracts in Wise County have SVI scores ranging from moderate to high. **The average SVI score among all census tracts associated with Wise County is 0.75 (moderate).** (See Table 3 below and Appendix G for *Virginia Vulnerability Viewer* maps.)

Housing Characteristics: According to *Adapt Virginia's* housing assessment, housing characteristics common in Wise County include a high percentage of mobile homes and low values and rents. Please see Table 3 below for housing characteristics specific to census tracts within Wise County.

Table 3 – Wise County Social Vulnerability Index Scores and Housing Characteristics

Census Tract	Social Vulnerability Index Score	Social Vulnerability Index Classification	Town(s) Within Census Tract	Housing Characteristics
9307	0.4	Moderate		high percentage of mobile homes; long-term renters
9308	0.5	Moderate		high percentage of mobile homes; low values and rents
9309	0.3	Moderate		high percentage of mobile homes; low values and rents
9310	0.6	Moderate		high percentage of mobile homes; low values and rents
9311	1.2	High	Appalachia	old stock; homes lacking plumbing; vacant homes; long-term owners
9312	1.3	High	Big Stone Gap	high percentage of mobile homes; low values and rents
9313	0.7	Moderate	Big Stone Gap	high percentage of mobile homes; long-term renters
9314	0.2	Moderate		high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
9315	1.2	High		high percentage of mobile homes; low values and rents
9316	0.8	Moderate		high percentage of mobile homes; homes lacking plumbing; vacant homes; low values and rents; long-term owners
9317	1.1	High		high percentage of mobile homes; low values and rents; long-term owners
Average	0.75	Moderate		

Source: Adapt Virginia, Virginia Vulnerability Viewer and authors' calculations

Household Income and Opportunity Zone Designation: According to American Community Survey five-year estimates (2015-2019), median household income in Wise County is \$38,888, which is 52 percent of Virginia’s median household income (\$74,222). **This qualifies Wise County as a “low-income geographic area” as defined in the 2021 VCFPF Grant Manual.**

Additionally, Wise County has four Opportunity Zones in census tracts 9309, 9313, 9314, and 9317. As shown in Table 3 above, part of the Town of Big Stone Gap is located within the Opportunity Zone associated with census tract 9313.

See Appendix G for maps and supporting documentation.

City of Norton

Census Geography: The City of Norton makes up 2010 census tract 9601.

Social Vulnerability Index (SVI) Score: Norton’s SVI score is 0.50 (moderate). (See Table 4 below and Appendix H for *Virginia Vulnerability Viewer* maps.)

Housing Characteristics: *Adapt Virginia* notes that housing characteristics common in the City of Norton include a high percentage of mobile homes, low home values and rents, and long-term homeownership.

Table 4 – City of Norton Social Vulnerability Index Score and Housing Characteristics

Census Tract	Social Vulnerability Index Score	Social Vulnerability Index Classification	Housing Characteristics
9601	0.50	Moderate	high percentage of mobile homes; low values and rents; long-term owners

Source: Adapt Virginia, Virginia Vulnerability Viewer

Household Income and Opportunity Zone Designation: According to American Community Survey five-year estimates (2015-2019), median household income in Norton is \$29,000, which is 39 percent of Virginia’s median household income (\$74,222). **This qualifies the City of Norton as a “low-income geographic area” as defined in the 2021 VCFPF Grant Manual.** The City of Norton is also a federally designated Opportunity Zone.

See Appendix H for maps and supporting documentation.

Project Details

Multiphase Approach and Timeline

This proposal is for the first phase of a four-phase process. Phase 1 is outlined in the “Proposal” section above; it is essential to understand the as-is state of each of these communities as a first step in preparing to develop a resilience plan. Phase 2 is anticipated to close identified gaps, to conduct capacity and resilience planning, and to develop an approvable resilience plan. Phase 3 will include pursuing additional research, studies, and innovations that would support the implementation of the resilience plan; and Phase 4 will consist of developing and executing flood prevention and protection projects.

We intend to complete Phase 1 work **between January and August of 2022**.

Community Benefits and Beyond

In addition to the core deliverables proposed, the University of Virginia proposes to approach this project as a pilot to test and develop process templates and roadmaps that could be followed by other low-income, underserved, inland Virginia communities and regions. In subsequent phases, UVA plans to conduct research and build data sets and innovative analytic techniques that could also benefit and be applied in other Virginia regions and communities.

Project Team

LENOWISCO Planning District Commission will serve as applicant of record for this joint project and as a central point of contact for the participating localities. LENOWISCO PDC will provide access to regional resources, policies, and initiatives. The PDC will also serve as fiscal agent, will provide VCFPF grant management and invoicing, and in collaboration with the Weldon Cooper Center, will prepare and submit VCFPF grant close-out materials as required.

The Weldon Cooper Center for Public Service at the University of Virginia is dedicated to serving state and local governments and communities across the commonwealth. The Cooper Center will serve as the lead unit for the project, providing project management and overall coordination. The Cooper Center will also lead or assist with evaluation of the “hard” and “soft” resources of the localities, stakeholder engagement and interviews, and the preparation of the project report, including the roadmap for future work leading to completion of resilience plans. The Cooper Center team will be led by [Elizabeth Marshall](#), a seasoned project manager with a background in urban planning who is currently serving as Program Manager for the Virginia Solar Initiative. Assisting the Cooper Center team will be [Dr. Arthur Small](#), Principal Scientist, a senior economist and data scientist with a background in weather and climate risk management. [Charles Hartgrove](#) will provide additional engagement support in his capacity as

the Director of the Cooper Center's Virginia Institute for Government. Additional Cooper Center staff will support the project with communications, public outreach, and administrative and financial functions as needed.

The Department of Engineering Systems and Environment at the UVA School of Engineering and Applied Science is home to UVA's highly regarded program in civil and environmental engineering. The UVA Engineering team will play the lead role in conducting the flood risk analysis and in evaluating the existing data, plans, policies, resources, and infrastructure available to formulate resilience plans. The UVA Engineering team will be led by [Dr. Majid Shafiee-Jood](#), Research Assistant Professor of Engineering Systems and Environment, who is a civil engineer specializing in water resources engineering, sustainability, natural hazards, and decision-making. Other UVA Engineering faculty members will support the project as senior technical advisors. [Dr. Jonathan Goodall](#) has extensive experience in developing data-driven strategies for stormwater management in the City of Norfolk, Virginia, and can provide valuable insight in relation to resilience plan development for the project areas. Dr. Goodall was recently elected as a member of the Virginia Academy of Science, Engineering, and Medicine. He also recently co-chaired a study on the impacts of climate change in Virginia and presented the results to Virginia's Joint Commission on Science and Technology, with several recommendations for infrastructure management at the state level. [Dr. Garrick Louis](#) specializes in water, green infrastructure, and the role of equity and inclusion in infrastructure design and serves as Director of the Small Infrastructure and Development Center. The UVA Engineering team will also include graduate and undergraduate students specializing in civil and environmental engineering working under the guidance of senior investigators.

The Department of Urban and Environmental Planning at the UVA School of Architecture will play a leading role in analysis of land use, planning policies, stakeholder mapping and interviews, and equity and engagement. The Planning group will play a supporting role in the evaluation of "soft" capacities in each community, including assessment of staff training, resource capacity, and staff certifications. The Planning group will be led by [Dr. Ellen Bassett](#), Professor of Urban and Environmental Planning and Associate Dean of Research in the School of Architecture, a specialist in climate change planning and adaptation. Dr. Bassett will be supported by the Institute for Engagement & Negotiation (IEN), an institute affiliated with the Department of Urban and Environmental Planning, by graduate and undergraduate students in urban and environmental planning, and by other resources in the School of Architecture as needed.

Scope of Work Details

1. Assess capacity needs and assets to include:

a. Resource needs identification – financial, human, technical assistance, training.

The proposed program of work includes conducting a baseline assessment that would reveal the current state of resources and capacity available to the PDC and localities. The assessment will reveal resource needs as they pertain to financial, human, technical assistance, and training, and will inform the creation of a roadmap for obtaining the missing resources pursuant to DCR-approvable resilience plans.

b. Plan for developing, increasing, or strengthening knowledge, skills and abilities of existing or new staff. This may include training of existing staff, hiring personnel, contracting with expert consultants or advisors.

This proposal includes a review and analysis of the “soft” capacities of existing local and regional PDC staff. We will reveal opportunities to increase knowledge, skill, and abilities, and will identify needed training, personnel, and certifications. Strategies for closing the gaps will be addressed in future phases of this work.

c. Resource development strategies. Where capacity is limited by funding, what strategies will be developed to increase resources in the local government? This may include work with non-governmental organizations or applying for grants, loans, or other funding sources.

This team will inventory the universe of resources available to localities within the LENOWISCO PDC to assist them in future phases and in developing resilience plans. Project deliverables will include a catalog used to identify what, how, where, and when localities can obtain and develop needed resources. The University of Virginia and LENOWISCO Planning District Commission will serve as consultants to help the localities pursue appropriate resource development strategies, partnerships, and funding support.

d. Policy management and/or development.

This proposed project will provide the localities the opportunity to examine relevant policies at the regional and local levels. In future phases, this will enable them to take a more comprehensive and equitable approach to developing coordinated resilience plans, policies, and projects.

2. Goals and objectives tied to improving flood protection and prevention in a whole community approach to resilience. Identify and describe the goals and objectives of the project.

Working simultaneously at the regional and local levels through the Planning District Commission will enable the development of coordinated strategies and resources that can be applied across jurisdictional boundaries and help reduce the financial burdens associated with implementation. Regional-level solutions bring an economy of scale to many of the resources and capital costs associated with resilience plan implementation. For this specific phase of the project, identifying resource gaps experienced by multiple localities presents an opportunity to strategize how to pursue development of missing resources in a manner that efficiently benefits all localities with shared needs.

3. Stakeholder identification, outreach, and education strategies.

This proposal involves taking a *whole community* approach to assess what resources these communities have in hand already and to develop roadmaps to fill any identified gaps in those resources. This approach also includes stakeholder mapping and interviewing in order to learn more about which existing channels of engagement are working well and where there are opportunities for localities and the PDC to expand stakeholder engagement and ensure future phases and planning work reflect the interests and priorities of diverse stakeholders.

4. Implementation plan and timelines for specific elements of completion, such as training, certifications, plan development, etc.

This initial phase of work is expected to be conducted between January 2022 and August 2022. At the conclusion of this phase, localities will be equipped with a roadmap and timeline to develop an approvable resilience plan.

5. Parties responsible for capacity building and/or plan development process.

This proposal outlines the key consultants, their areas of expertise, and their roles in Phase 1. A key deliverable for this phase will be a roadmap that summarizes the key resources, hard and soft capacities, and studies that may be required for the development of a resilience plan. Specific strategies for executing the roadmap will be outlined to the extent appropriate, and additional work to identify roles and responsibilities related to executing the plan may be developed in later phases.

6. Performance outputs and measures. Describe the expected results and benefits and how success will be measured.

The overall goal of this phase of the project is to deliver a baseline assessment that identifies the gaps in hard and soft resources and capacities that localities will need to fill in order to develop a successful resilience plan. In addition, the team at UVA will use this process as a pilot to test and develop a model process in order to help other low-income, inland communities prepare to develop their resilience plans.

At the conclusion of this project, LENOWISCO PDC and its partner communities expect the following outputs and measure of success:

Performance Output: Flood Risk Inventory

Measure of Success: Identification of high-risk areas, mechanisms for flooding, and cascading impacts.

Performance Output: Comprehensive Inventory of Resources

Measure of Success: Identification of gaps in resources needed to develop a DCR-approvable resilience plan.

Performance Output: Stakeholder Mapping and Interviews

Measure of Success: Identification of diverse stakeholders, conducting of stakeholder interviews, and documentation of stakeholder perspectives and interests to inform future resilience planning efforts.

Performance Output: Analysis of “Soft” Capacities

Measure of Success: Identification of future staff training and capacity needs and outlining of steps necessary to address those needs in future roadmaps and plans.

Performance Output: Baseline Assessment Process Templates

Measure of Success: Successful testing and development of a baseline assessment process and creation of process templates that can be used to help other low-income, under-resourced communities begin the process of resilience planning.

7. Plans for maintaining capacity, as necessary, over the long term.

As this phase is designed to accomplish benchmarking and to understand the “as-is” state of the region and localities within it, plans for maintaining capacity are not needed at this time. However, we will be benchmarking capacity, which is essential for planning for future growth and long-term maintenance.

Evidence of Flood Events

While the full scope of flood risks has not yet been studied and analyzed, recurring and recent flood events in the LENOWISCO PDC region provide evidence that flood events are negatively impacting communities in the project area. Devastating impacts and disruption to local residences, businesses, community assets, and transportation networks have been recorded. With evidence of extant and worsening flood challenges, LENOWISCO PDC and its partner communities are eager to begin the process of developing their resilience plans.

Below are only a few examples of recent and recurring flood events in the region.

See Appendix D for maps and documentation of the flood events described below as well as FIRMettes of flood-prone areas.

LEE COUNTY

Going back to 1963 and 1977, St. Charles along Stone Creek (Straight Creek) and East Pennington Gap along North Fork of Powell River have repeatedly flooded:

<https://www.washingtonpost.com/archive/politics/1977/12/04/va-mountain-folk-dread-rain-after-4-floods-this-year/1932d93d-5390-4634-b0e8-d449e0df0755/>

https://archives.etsu.edu/repositories/2/archival_objects/12292

February 12, 2018- Highways 421 and 58 closed due to mudslides:

<https://www.weathernationtv.com/news/flooding-mudslides-southwest-virginia/>

SCOTT COUNTY

March 28, 2021: Gate City Sports Complex flooded:

https://www.timesnews.net/big-moccasin---scott-county-virginia/image_5c72f94e-8ffd-11eb-bda5-7397ecdca7d6.html

WISE COUNTY

March 4-5, 2015: Dozens of road closures, including a road collapse in Scott County. People had to be rescued from their homes:

Photos: <https://www.facebook.com/wjhlTV11/posts/here-are-some-photos-of-wise-county-va-flooding-courtesy-of-wise-county-va-sheri/769826553083373/>

Road collapse: https://www.johnsoncitypress.com/news/local-news/collapsed-flooded-roads-reported-across-southwest-virginia/article_135f43c6-20dd-5557-b010-793663206d47.html

February 10, 2018: Flooding lead to evacuation of 25 homes, dam failure, school closures, and severe flooding of parks and roadways:

[Heavy rain brings dam failure, flooding, mudslides | Latest Headlines | heraldcourier.com](#)

Big Stone Gap flood photos: <https://www.facebook.com/news5wcyb/posts/big-stone-gap-va-is-seeing-severe-flooding-this-morning-check-out-these-photos-o/10156329099913825/>

Home evacuations: <https://www.wjhl.com/uncategorized/flooding-causes-some-residents-in-wise-county-to-evacuate/>

February 6, 2020: Heavy rain pushed the Guest River over its banks. Multiple road closures occurred in Big Stone Gap, including:

- Wallens Ridge Boulevard
- Intersection of Tate Springs and River Road
- Route 58
- Spring Street

Rising Powell River waters submerged the Big Stone Gap Greenbelt and nearby Jessie Lea RV Park, and heavy rains flooded yards of several homes in the Town of Wise.

https://www.timesnews.net/news/local-news/governor-declares-emergency-after-sw-va-flooding/article_070c1745-8c8c-556b-a1fd-9dd9d9b140d0.html

<https://www.wjhl.com/news/local/big-stone-gap-vfd-multiple-roads-closed-due-to-rising-water-levels/>

[Multiple SWVA counties declare local emergencies in wake of floods | WJHL | Tri-Cities News & Weather](#)

March 21, 2021: Multiple roads flooded, lanes closed, and traffic impacted:

<https://www.wjhl.com/news/local/vdot-standing-water-on-southwest-virginia-roadways-closes-lanes-monday-morning/>

Policies and Supporting Documentation

Current Floodplain Ordinances:

- Lee County- Flood Plain Zoning Districts (Article IV, Sec 4-11):
<http://www.leecova.org/pdf/ComDev/Ordinance%20-%20Lee%20County%20Zoning%20-%202014.pdf> (Refers to 1987 Flood Protection Ordinance)
- Scott County- Zoning Floodplain Overlay District (starts on page 33):
<http://www.scottcountyva.com/zoningOrd201107.pdf>
- Wise County- <https://www.wisecounty.org/DocumentCenter/View/90/Wise-County-Floodplain-Ordinance-PDF?bidId=>
- Town of Norton- Zoning Floodplains:
https://library.municode.com/va/norton/codes/code_of_ordinances?nodeId=CO_CH26_1ZO_ARTIVSPPUINRE_S26.1-31FL

Current Hazard Mitigation Plans:

- LENOWISCO Planning District 2021 Hazard Mitigation Plan Update:
http://www.lenowisco.org/uploads/3/0/6/6/30665363/lenowisco_2021_hazard_mitigation_plan_with_fema_revisions_05.13.21.pdf
- LENOWISCO Planning District 2021 Hazard Mitigation Plan Jurisdiction Annexes:
http://www.lenowisco.org/uploads/3/0/6/6/30665363/lenowisco_2021_hazard_mitigation_plan_-_locality_annexes.pdf

Current Comprehensive Plans:

- Lee County: <http://www.leecova.org/pdf/Lee%20County%20Comprehensive%20Plan-Adopted%202020.pdf>
- Scott County: <http://www.scottcountyva.com/2017-CompPlanFinal.pdf>
- Wise County: <https://www.wisecounty.org/DocumentCenter/View/166/2020-Wise-County-Comprehensive-Plan-PDF>
- City of Norton: <https://www.nortonva.gov/DocumentCenter/View/738/Comprehensive-Plan?bidId=>

Budget Narrative

The estimated total cost to bring the project to completion is \$150,000.

In each of the localities in the project area – Counties of Wise, Lee, Scott and City of Norton – household median income is less than 80% of the Virginia statewide household median income. Each meets the VCFPF definition of a low-income geographic area. (See Appendices E-H.)

Accordingly, we respectfully request a waiver of the required 10% cash match to implement this planning and capacity-building project and request 100% support from the Virginia Community Flood Preparedness Fund. The total amount of grant assistance requested from the Fund is therefore \$150,000. The cover letter to this application package from Duane Miller, Executive Director of the LENOWISCO Planning District Commission, provides verification of authorization to request funds from the VCFPF. Please refer to the cover letter and the "Need for Assistance" section for details of the waiver request and supporting documentation of need.

Essentially all (\$149,000) of the project budget will be allocated to a consulting contract with the University of Virginia. Project tasks will be carried out by a team, including staff from three units within UVA: the Weldon Cooper Center for Public Service; the School of Engineering and Applied Science, Department of Engineering Systems and Environment; and the School of Architecture, Department of Urban and Environmental Planning. Please see "Project Team" section above for details.

In addition to the subcontract with UVA, the budget includes \$1,000 for expenses incurred by the applicant and localities related to hosting meetings and workshops that are provided for in the project plan.

The budget detail in Appendix I provides detailed additional information about planned project tasks and associated expenditures.

APPENDICES

A: Application (VCFPF APPENDIX A)

B: Checklist and Scoring Criteria (VCFPF APPENDIX D)

C: Letters of Support from Localities

D: Project area map, Social Vulnerability Index map for greater project area, flood hazard zone maps, descriptions of flood-prone areas, and FIRMettes for areas of known flooding within the greater project area

E: Lee County census tract maps, ADAPT VA Social Vulnerability Index map, Opportunity Zone map, and community income profiles

F: Scott County census tract maps, ADAPT VA Social Vulnerability Index map, Opportunity Zone map, and community income profiles

G: Wise County census tract maps, ADAPT VA Social Vulnerability Index map, Opportunity Zone map, and community income profiles

H: City of Norton census tract map, ADAPT VA Social Vulnerability Index map, Opportunity Zone map, and community income profile

I: Budget Details

APPENDIX A: APPLICATION FORM

Application Form for Grant Request

Appendix A: Application Form for Grant Requests for All Categories

Virginia Department of Conservation and Recreation
Virginia Community Flood Preparedness Fund Grant Program

Name of Local Government:

LENOWISCO Planning District Commission

(Letters of support provided by: Counties of Lee, Scott, and Wise; City of Norton;
Towns of Appalachia, Big Stone Gap, Dungannon, Gate City, and Pennington Gap.)

Category of Grant Being Applied for (check one):

Capacity Building/Planning

Project

Study

Lee County: 510085
Scott County: 510142
Wise County: 510174
City of Norton: 510108
Town of Appalachia: 510319
Town of Big Stone Gap: 515521
Town of Dungannon: 510144
Town of Gate City: 510145
Town of Pennington Gap: 510087

NFIP/DCR Community Identification Number (CID) _____

If a state or federally recognized Indian tribe, Name of tribe N/A

Name of Authorized Official: Duane Miller, Executive Director, LENOWISCO PDC

Signature of Authorized Official:  _____

Mailing Address (1): 372 Technology Trail Ln, Suite 101

Mailing Address (2): _____

City: Duffield **State:** VA **Zip:** 24244

Telephone Number: (276) 431-2206 **Cell Phone Number:** ()

Email Address: dmiller@lenowisco.org

Contact Person (If different from authorized official): N/A

Mailing Address (1): _____

Mailing Address (2): _____

City: _____ State: _____ Zip: _____

Telephone Number: (____) _____ Cell Phone Number: (____) _____

Email Address: _____

Is the proposal in this application intended to benefit a low-income geographic area as defined in the Part 1 Definitions? Yes No

Categories (select applicable project):

Project Grants (Check All that Apply)

- Acquisition of property (or interests therein) and/or structures for purposes of allowing floodwater inundation, strategic retreat of existing land uses from areas vulnerable to flooding; the conservation or enhancement of natural flood resilience resources; or acquisition of structures, provided the acquired property will be protected in perpetuity from further development.
- Wetland restoration.
- Floodplain restoration.
- Construction of swales and settling ponds.
- Living shorelines and vegetated buffers.
- Structural floodwalls, levees, berms, flood gates, structural conveyances.
- Storm water system upgrades.
- Medium and large scale Low Impact Development (LID) in urban areas.
- Permanent conservation of undeveloped lands identified as having flood resilience value by *ConserveVirginia* Floodplain and Flooding Resilience layer or a similar data driven analytic tool.
- Dam restoration or removal.
- Stream bank restoration or stabilization.
- Restoration of floodplains to natural and beneficial function.
- Developing flood warning and response systems, which may include gauge installation, to notify residents of potential emergency flooding events.

Study Grants (Check All that Apply)

- Studies to aid in updating floodplain ordinances to maintain compliance with the NFIP or to incorporate higher standards that may reduce the risk of flood damage. This must include establishing processes for implementing the ordinance, including but not limited to, permitting, record retention, violations, and variances. This may include revising a floodplain ordinance when the community is getting new Flood Insurance Rate Maps (FIRMs), updating a floodplain ordinance to include floodplain setbacks or freeboard, or correcting issues identified in a Corrective Action Plan.
- Revising other land use ordinances to incorporate flood protection and mitigation goals, standards and practices.
- Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA). For example, a local government might conduct a hydrologic and hydraulic study for an area that had not been studied because the watershed is less than one square mile. Modeling the floodplain in an area that has numerous letters of map change that suggest the current map might not be fully accurate or doing a detailed flood study for an A Zone is another example.
- Studies and Data Collection of Statewide and Regional Significance.
- Revisions to existing resilience plans and modifications to existing comprehensive and hazard.
- Other relevant flood prevention and protection project or study.

Capacity Building and Planning Grants

- Floodplain Staff Capacity.
- Resilience Plan Development
 - Revisions to existing resilience plans and modifications to existing comprehensive and hazard mitigation plans.
 - Resource assessments, planning, strategies and development.
 - Policy management and/or development.
 - Stakeholder engagement and strategies.

Location of Project (Include Maps): LENOWISCO Planning District

NFIP Community Identification Number (CID#):(See appendix F

Lee County (510085); Scott County (510142); Wise County (510174); Norton (510108); Appalachia (510319); Big Stone Gap (515521); Dungannon (510144); Gate City (510145); Pennington Gap (510087)

Is Project Located in an NFIP Participating Community? Yes No

Is Project Located in a Special Flood Hazard Area? Yes No

(See Appendix D of application for description of flood risk areas and maps.)

Flood Zone(s) (If Applicable): This proposal covers a region.
Please see Appendix D of application for details.

Flood Insurance Rate Map Number(s) (If Applicable): This proposal covers a region.
Please see Appendix D of application for details.

Total Cost of Project: \$150,000

Total Amount Requested \$150,000
(Waiver of cash match requested; please see cover letter for details.)

APPENDIX B: SCORING CRITERIA AND CHECKLIST

Scoring Criteria for Capacity Building & Planning

Checklist for All Categories

Appendix D: Scoring Criteria for Capacity Building & Planning

Virginia Department of Conservation and Recreation
Virginia Community Flood Preparedness Fund Grant Program

Applicant Name:	LENOWISCO Planning District Commission	
Eligibility Information		
Criterion	Description	Check One
1. Is the applicant a local government (including counties, cities, towns, municipal corporations, authorities, districts, commissions, or political subdivisions created by the General Assembly or pursuant to the Constitution or laws of the Commonwealth, or any combination of these)?		
Yes	Eligible for consideration	✓
No	Not eligible for consideration	
2. Does the local government have an approved resilience plan and has provided a copy or link to the plan with this application?		
Yes	Eligible for consideration under all categories	
No	Eligible for consideration for studies, capacity building, and planning only	✓
3. If the applicant is <u>not a town, city, or county</u>, are letters of support from all affected local governments included in this application?		
Yes	Eligible for consideration	✓
No	Not eligible for consideration	
4. Has this or any portion of this project been included in any application or program previously funded by the Department?		
Yes	Not eligible for consideration	
No	Eligible for consideration	✓
5. Has the applicant provided evidence of an ability to provide the required matching funds?		
Yes	Eligible for consideration	✓
No	Not eligible for consideration	
N/A	Match not required	

Capacity Building and Planning Eligible for Consideration		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Applicant Name:	LENOWISCO Planning District Commission		
Scoring Information			
Criterion	Point Value	Points Awarded	
6. Eligible Capacity Building and Planning Activities (Select all that apply)			
Revisions to existing resilience plans and modifications to existing comprehensive and hazard mitigation plans.	55	0	
Development of a new resilience plan.	55	55	
Resource assessments, planning, strategies and development.	45	45	
Policy management and/or development.	40	40	
Stakeholder engagement and strategies.	25	25	
Goal planning, implementation and evaluation.	25	25	
Long term maintenance strategy.	25	20	
Other proposals that will significantly improve protection from flooding on a statewide or regional basis.	15	15	
7. Is the area within the local government to which the grant is targeted socially vulnerable? (Based on ADAPT VA's Social Vulnerability Index Score.)			
Very High Social Vulnerability (More than 1.5)	15		
High Social Vulnerability (1.0 to 1.5)	12		
Moderate Social Vulnerability (0.0 to 1.0)	8	8	
Low Social Vulnerability (-1.0 to 0.0)	0		
Very Low Social Vulnerability (Less than -1.0)	0		
8. Is the proposed activity part of an effort to join or remedy the community's probation or suspension from the NFIP?			
Yes	10		
No	0	0	
9. Is the proposed project in a low-income geographic area as defined in this manual?			
Yes	10	10	
No	0		
10. Does this project provide "community scale" benefits?			
Yes	20	20	
No			
Total Points		263	

Appendix D: Checklist All Categories

Virginia Department of Conservation and Recreation

Community Flood Preparedness Fund Grant Program

Scope of Work Narrative	
Supporting Documentation	Included
Detailed map of the project area(s) (Projects/Studies)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
FIRMette of the project area(s) (Projects/Studies)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Historic flood damage data and/or images (Projects/Studies)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
A link to or a copy of the current floodplain ordinance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Non-Fund financed maintenance and management plan for project extending a minimum of 5 years from project close	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
A link to or a copy of the current hazard mitigation plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
A link to or a copy of the current comprehensive plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Social vulnerability index score(s) for the project area from ADAPT VA's Virginia Vulnerability Viewer	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If applicant is not a town, city, or county, letters of support from affected communities	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Completed Scoring Criteria Sheet in Appendix B, C, or D	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Budget Narrative	
Supporting Documentation	Included
Authorization to request funding from the Fund from governing body or chief executive of the local government	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Signed pledge agreement from each contributing organization	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

APPENDIX C: LETTERS OF SUPPORT

Letter of Support: Lee County

Letter of Support: Scott County

Letter of Support: Wise County

Letter of Support: City of Norton

Letter of Support: Town of Appalachia

Letter of Support: Town of Big Stone Gap

Letter of Support: Town of Dungannon

Letter of Support: Town of Gate City

Letter of Support: Town of Pennington Gap



Lee County Board of Supervisors

LEE COUNTY
P.O. Box 367
Jonesville, Virginia 24263-0367

COUNTY ADMINISTRATOR
Telephone 276-346-7714
Fax 276-346-7712
www.leecova.org

October 26, 2021

Mr. Duane Miller, Executive Director
LENOWISCO Planning District Commission
372 Technology Trail Lane, Suite 101
Duffield, Virginia 24244

Dear Mr. Miller:

We understand the LENOWISCO Planning District Commission intends to pursue Planning and Capacity Building funding through the Virginia Community Flood Preparedness Fund (CFPF), to aid its member localities in addressing flood management issues.

We hereby acknowledge that the CFPF proposal seeks to conduct Phase 1 work that will include taking a regional and whole community approach to: conducting baseline inventory and assessments of flood-related resources, data, plans, and policies necessary to later prepare a resilience plan, evaluating local government and regional commission staff capacity, training needs, and succession planning to ensure requirement of Certified Floodplain Manager can be met and maintained, and to conduct stakeholder mapping and engagement work needed to ensure diverse perspectives and interests are represented.

We also acknowledge that a cash match waiver, designed for low-income geographic areas, has been requested on behalf of the PDC and its participating localities.

We understand that the CFPF proposal will be submitted on our behalf on or before November 5th, and that, if funds are awarded, work is expected to be done between January and August 2022.

We hereby give LENOWISCO authorization to partner with the University of Virginia and other PDC localities to prepare a joint proposal in our behalf.

Sincerely,

D. Dane Poe
County Administrator

BOARD OF SUPERVISORS

DARREL W. JETER
MARSHALL D. TIPTON
JEREMY P. HERRON
MICHAEL K. BRICKEY
DANNY P. MANN
SELMA G. HOOD
STEFANIE A. CRUBY



SCOTT COUNTY
BOARD OF SUPERVISORS

COUNTY ADMINISTRATOR
FREDA R. STARNES

190 BEECH STREET, SUITE 201
GATE CITY, VIRGINIA 24251
PHONE (276) 386-6521
FAX (276) 386-9198

EMAIL: fstarnes@scottcountyva.com
www.scottcountyva.com

October 22, 2021

Mr. Duane Miller, Executive Director
LENOWISCO Planning District Commission
372 Technology Trail Lane, Suite 101
Duffield, Virginia 24244

Dear Duane:

We understand the LENOWISCO Planning District Commission intends to pursue Planning and Capacity Building funding through the Virginia Community Flood Preparedness Fund (CFPF), to aid its member localities in addressing flood management issues.

We hereby acknowledge that the CFPF proposal seeks to conduct Phase 1 work that will include taking a regional and whole community approach to: conducting baseline inventory and assessments of flood-related resources, data, plans, and policies necessary to later prepare a resilience plan, evaluating local government and regional commission staff capacity, training needs, and succession planning to ensure requirement of Certified Floodplain Manager can be met and maintained, and to conduct stakeholder mapping and engagement work needed to ensure diverse perspectives and interests are represented.

We also acknowledge that a cash match waiver, designed for low-income geographic areas, has been requested on behalf of the PDC and its participating localities.

We understand that the CFPF proposal will be submitted on our behalf on or before November 5th, and that, if funds are awarded, work is expected to be done between January and August 2022.

We hereby give LENOWISCO authorization to partner with the University of Virginia and other PDC localities to prepare a joint proposal in our behalf.

Sincerely,

A handwritten signature in blue ink that reads "Freda R. Starnes". The signature is fluid and cursive.

Freda R. Starnes
County Administrator

Wise County Board of Supervisors



Office of County Administrator

COURTHOUSE

WISE, VIRGINIA 24293

TELEPHONE 276-328-2321
FAX 276-328-9780

P.O. BOX 570
206 E. MAIN STREET

October 27, 2021

Mr. Duane Miller, Executive Director
LENOWISCO Planning District Commission
372 Technology Trail Lane, Suite 101
Duffield, Virginia 24244

Dear Duane:

We understand the LENOWISCO Planning District Commission intends to pursue Planning and Capacity Building funding through the Virginia Community Flood Preparedness Fund (CFPF), to aid its member localities in addressing flood management issues.

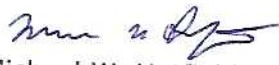
We hereby acknowledge that the CFPF proposal seeks to conduct Phase 1 work that will include taking a regional and whole community approach to: conducting baseline inventory and assessments of flood-related resources, data, plans, and policies necessary to later prepare a resilience plan, evaluating local government and regional commission staff capacity, training needs, and succession planning to ensure requirement of Certified Floodplain Manager can be met and maintained, and to conduct stakeholder mapping and engagement work needed to ensure diverse perspectives and interests are represented.

We also acknowledge that a cash match waiver, designed for low-income geographic areas, has been requested on behalf of the PDC and its participating localities.

We understand that the CFPF proposal will be submitted on our behalf on or before November 5th, and that, if funds are awarded, work is expected to be done between January and August 2022.

We hereby give LENOWISCO authorization to partner with the University of Virginia and other PDC localities to prepare a joint proposal in our behalf.

Sincerely,


Michael W. Hatfield
County Administrator



City of Norton
618 Virginia Avenue
P. O. Box 618
Norton, Virginia 24273-0618

(276) 679-1160
fax: (276) 679-3510
www.nortonva.gov
email: cityhall@nortonva.gov

October 21, 2021

Mr. Duane Miller, Executive Director
LENOWISCO Planning District Commission
372 Technology Trail Lane, Suite 101
Duffield, Virginia 24244

Dear Duane:

I understand the LENOWISCO Planning District Commission intends to pursue Planning and Capacity Building funding through the Virginia Community Flood Preparedness Fund (CFPF), to aid its member localities in addressing flood management issues.

The City of Norton hereby acknowledges that the CFPF proposal seeks to conduct Phase 1 work that will include taking a regional and whole community approach to: conducting baseline inventory and assessments of flood-related resources, data, plans, and policies necessary to later prepare a resilience plan, evaluating local government and regional commission staff capacity, training needs, and succession planning to ensure requirement of Certified Floodplain Manager can be met and maintained, and to conduct stakeholder mapping and engagement work needed to ensure diverse perspectives and interests are represented.

We also acknowledge that a cash match waiver, designed for low-income geographic areas, has been requested on behalf of the PDC and its participating localities.

We understand that the CFPF proposal will be submitted on our behalf on or before November 5th, and that, if funds are awarded, work is expected to be done between January and August 2022.

We hereby give LENOWISCO authorization to partner with the University of Virginia and other PDC localities to prepare a joint proposal in our behalf.

Sincerely,

A handwritten signature in blue ink that reads "Fred".

Fred L. Ramey, Jr.
City Manager

Visit Flag Rock - Norton's Mountain Masterpiece

TOWN OF APPALACHIA

Born from coal; survives through spirit



Council Members

Chase Christian - Mayor
Chris Williams - Vice Mayor
Travis Anderson
Johnny Chandler
Eddie Gollaway

P. O. BOX 112 508 West Main Street
Appalachia, VA 24216
PH: 276-565-3900 FAX: 276-565-3908
WWW.TOWNOFAPPALACHIAVA.US

Michael Abbott
Town Attorney

Fred Luntsford
Town Manager

Yvonne Isom
Town Clerk/Treasurer

October 25, 2021

Mr. Duane Miller, Executive Director
LENOWISCO Planning District Commission
372 Technology Trail Lane, Suite 101
Duffield, Virginia 24244

Dear Duane:

We understand the LENOWISCO Planning District Commission intends to pursue Planning and Capacity Building funding through the Virginia Community Flood Preparedness Fund (CFPF), to aid its member localities in addressing flood management issues.

We hereby acknowledge that the CFPF proposal seeks to conduct Phase 1 work that will include taking a regional and whole community approach to: conducting baseline inventory and assessments of flood-related resources, data, plans, and policies necessary to later prepare a resilience plan, evaluating local government and regional commission staff capacity, training needs, and succession planning to ensure requirement of Certified Floodplain Manager can be met and maintained, and to conduct stakeholder mapping and engagement work needed to ensure diverse perspectives and interests are represented.

We also acknowledge that a cash match waiver, designed for low-income geographic areas, has been requested on behalf of the PDC and its participating localities.

We understand that the CFPF proposal will be submitted on our behalf on or before November 5th, and that, if funds are awarded, work is expected to be done between January and August 2022.

We hereby give LENOWISCO authorization to partner with the University of Virginia and other PDC localities to prepare a joint proposal in our behalf.

Sincerely,

A handwritten signature in black ink, appearing to read 'Fred', written in a cursive style.

Fred Luntsford
Town Manager



Office of the Town Manager

Stephen L. Lawson

October 25, 2021

Mr. Duane Miller, Executive Director
LENOWISCO Planning District Commission
372 Technology Trail Lane, Suite 101
Duffield, Virginia 24244

Dear Duane:

We understand the LENOWISCO Planning District Commission intends to pursue Planning and Capacity Building funding through the Virginia Community Flood Preparedness Fund (CFPF), to aid its member localities in addressing flood management issues.

We hereby acknowledge that the CFPF proposal seeks to conduct Phase 1 work that will include taking a regional and whole community approach to: conducting baseline inventory and assessments of flood-related resources, data, plans, and policies necessary to later prepare a resilience plan, evaluating local government and regional commission staff capacity, training needs, and succession planning to ensure requirement of Certified Floodplain Manager can be met and maintained, and to conduct stakeholder mapping and engagement work needed to ensure diverse perspectives and interests are represented.

We also acknowledge that a cash match waiver, designed for low-income geographic areas, has been requested on behalf of the PDC and its participating localities.

We understand that the CFPF proposal will be submitted on our behalf on or before November 5th, and that, if funds are awarded, work is expected to be done between January and August 2022.

We hereby give LENOWISCO authorization to partner with the University of Virginia and other PDC localities to prepare a joint proposal in our behalf.

Sincerely,

A handwritten signature in blue ink that reads "Stephen L. Lawson". The signature is fluid and cursive, with a long horizontal stroke at the end.

Stephen L. Lawson
Town Manager

TOWN OF DUNGANNON
18948 VETERANS MEMORIAL HWY, STE 101
P.O. BOX 278
DUNGANNON, VA 24245
(PHONE) 276-467-2522
(FAX) 276-467-5922



Debra Horne, Mayor

James M. Lane, Vice-Mayor

Terrina Ward, Town Clerk

mayorhorne@townofdungannon.com

terrina@townofdungannon.com

Mr. Duane Miller, Executive Director
LENOWISCO Planning District Commission
372 Technology Trail Lane, Suite 101
Duffield, Virginia 24244

Dear Duane:

We understand the LENOWISCO Planning District Commission intends to pursue Planning and Capacity Building funding through the Virginia Community Flood Preparedness Fund (CFPF), to aid its member localities in addressing flood management issues.

We hereby acknowledge that the CFPF proposal seeks to conduct Phase 1 work that will include taking a regional and whole community approach to: conducting baseline inventory and assessments of flood-related resources, data, plans, and policies necessary to later prepare a resilience plan, evaluating local government and regional commission staff capacity, training needs, and succession planning to ensure requirement of Certified Floodplain Manager can be met and maintained, and to conduct stakeholder mapping and engagement work needed to ensure diverse perspectives and interests are represented.

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We hereby give LENOWISCO authorization to partner with the University of Virginia and other PDC localities to prepare a joint proposal in our behalf.

Sincerely,

A handwritten signature in black ink that reads "Debra Horne, Mayor". The signature is written in a cursive, flowing style.

Debra Horne, Mayor

Town of Gate City
156 E. JACKSON ST.
GATE CITY, VA 24251
276-386-3831 OFFICE
276-386-7789 FAX

Town Manager – Greg Jones
townmanager@mygatecity.com



Mayor
Bob Richards
Vice Mayor
Robin Richards

Council Members
Roger Cassell
Allan "Cotton" Roberts
Tyler Kilgore
Wallace W. Ross Jr.

October 21, 2021

Mr. Duane Miller, Executive Director
LENOWISCO Planning District Commission
372 Technology Trail Lane, Suite 101
Duffield, Virginia 24244

Dear Duane:

We understand the LENOWISCO Planning District Commission intends to pursue Planning and Capacity Building funding through the Virginia Community Flood Preparedness Fund (CFPF), to aid its member localities in addressing flood management issues.

We hereby acknowledge that the CFPF proposal seeks to conduct Phase 1 work that will include taking a regional and whole community approach to: conducting baseline inventory and assessments of flood-related resources, data, plans, and policies necessary to later prepare a resilience plan, evaluating local government and regional commission staff capacity, training needs, and succession planning to ensure requirement of Certified Floodplain Manager can be met and maintained, and to conduct stakeholder mapping and engagement work needed to ensure diverse perspectives and interests are represented.

We also acknowledge that a cash match waiver, designed for low-income geographic areas, has been requested on behalf of the PDC and its participating localities.

We understand that the CFPF proposal will be submitted on our behalf on or before November 5th, and that, if funds are awarded, work is expected to be done between January and August 2022.

We hereby give LENOWISCO authorization to partner with the University of Virginia and other PDC localities to prepare a joint proposal in our behalf.

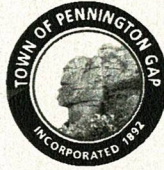
Sincerely,

A handwritten signature in blue ink, appearing to be "G. Jones", written over a faint, light blue grid background.

Greg Jones
Town Manager

Town Of Pennington Gap

528 Industrial Drive
Pennington Gap, Virginia 24277
www.townofpenningtonva.gov
Phone 276-546-1177 • Fax 276-546-6328



TOWN MANAGER
Keith Harless
keith.harless@townofpenningtonva.gov

TREASURER
Tina Rowe
treasurer@townofpenningtonva.gov

CLERK
Karen Maggard
info@townofpenningtonva.gov

MAYOR
Larry W. Holbrook

COUNCIL
Jill Carson
Gary McElyea
Jeff Martin
Terry K. Pope
Jimmy Warner

October 25, 2021

Mr. Duane Miller, Executive Director
LENOWISCO Planning District Commission
372 Technology Trail Lane, Suite 101
Duffield, Virginia 24244

Dear Duane:

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Sincerely,

Keith Harless
Town Manger

APPENDIX D: PROJECT AREA MAPS AND FIRMETTES

Project Area Map

Social Vulnerability Index Score Map

Flood Hazard Zone Map – City of Norton

Flood Hazard Zone Map – Town of Appalachia

Flood Hazard Zone Map – Town of Big Stone Gap

Flood Hazard Zone Map – Town of Dungannon

Flood Hazard Zone Map – Town of Gate City

Flood Hazard Zone Map – Town of Pennington Gap

Flood Event Image, Description, and FIRMette_1
Wise County – Guest River – Tacoma Section

Flood Event Image, Description, and FIRMette_2
Wise County – Powell River – Jessie Lea RV Park

Flood Event Image, Description, and FIRMette_3
Wise County – Big Stone Gap Greenbelt

Flood Event Image, Description, and FIRMette_4
Scott County – Clinchport – Route 65

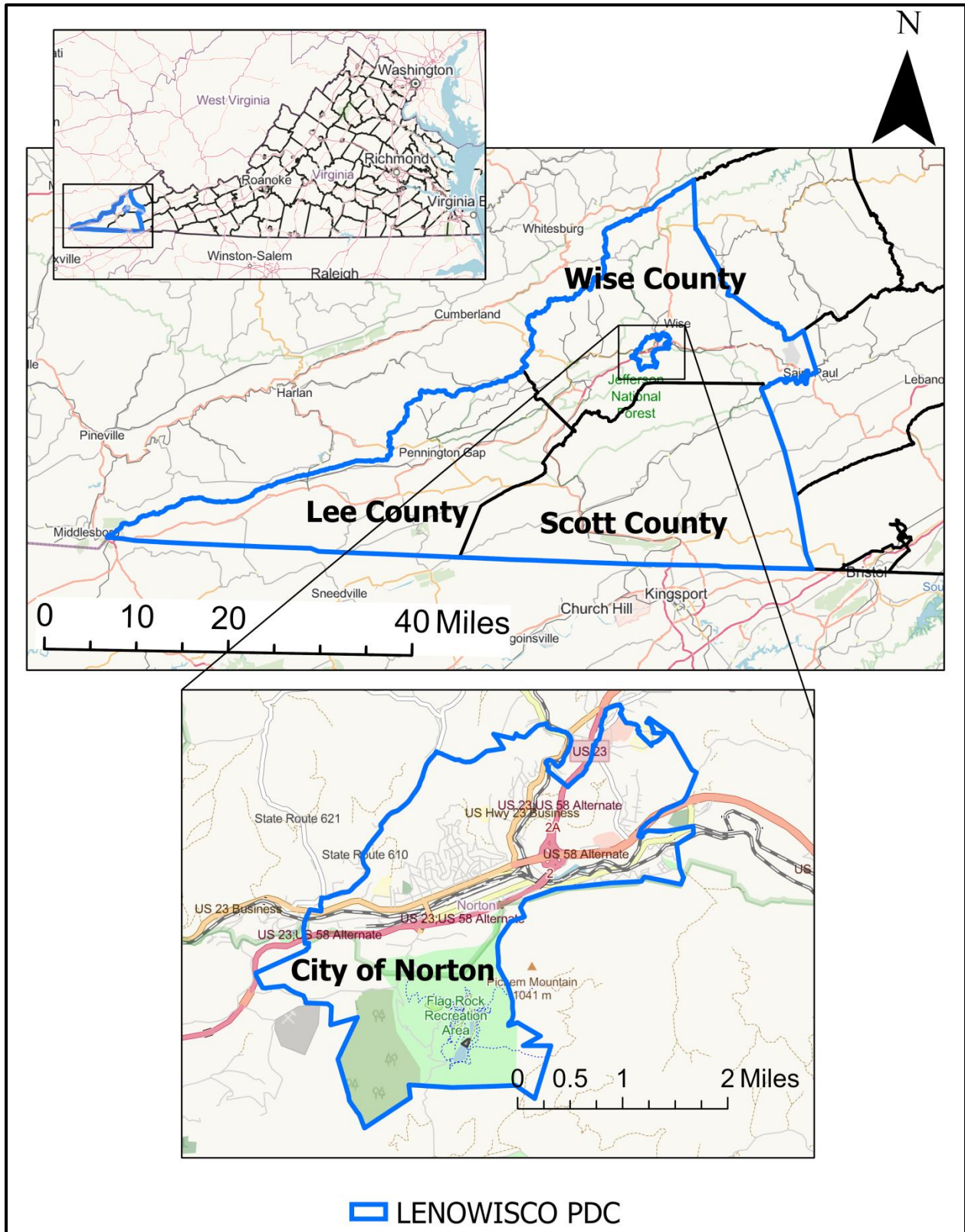
Flood Event Description and FIRMette_5
Wise County – Big Stone Gap – Tate Springs and River Road

Flood Event Image, Description, and FIRMette_6
Scott County – Route 65/72 – Road Collapse

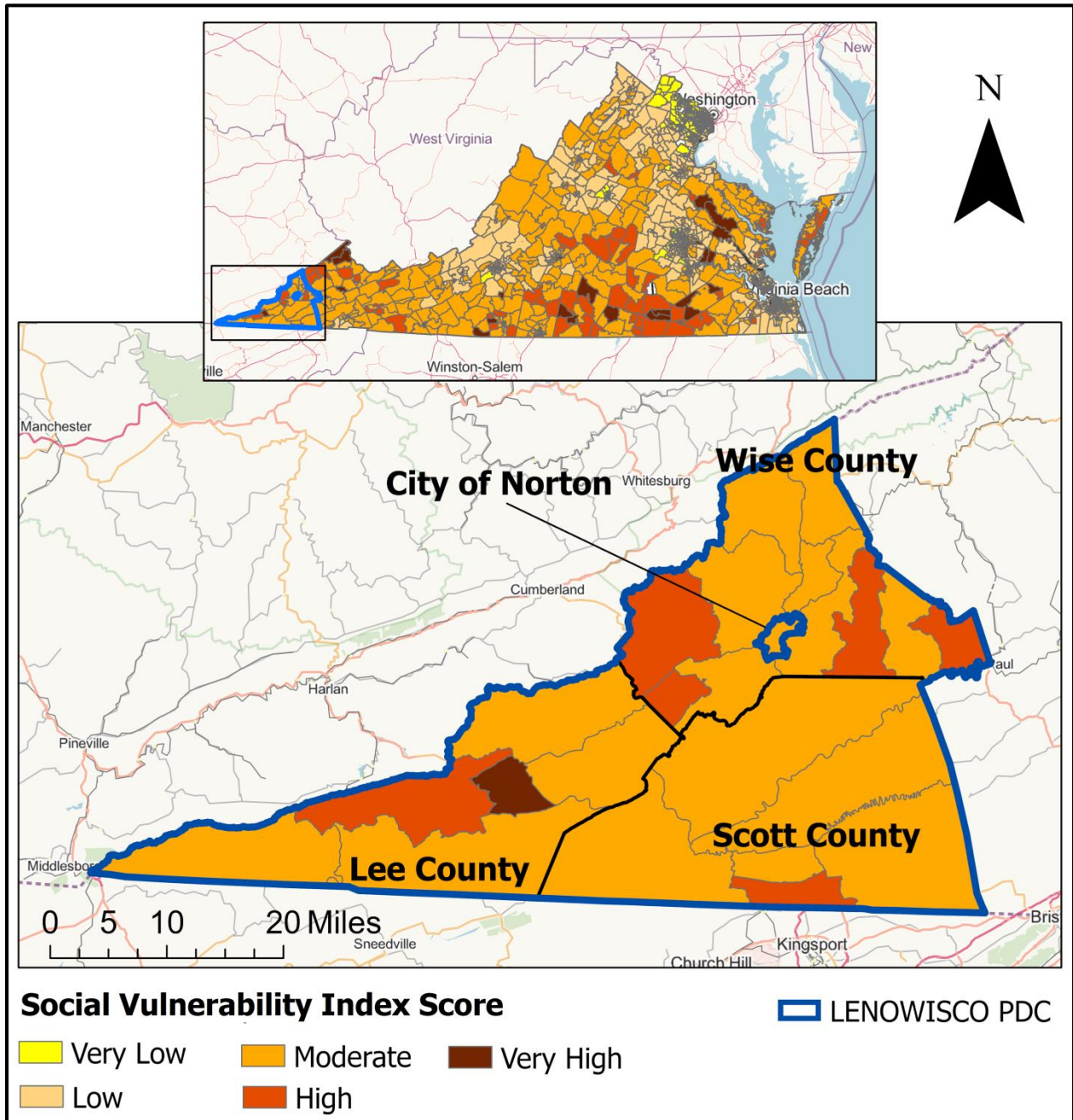
Flood Event Description and FIRMette_7
Lee County – St. Charles – St. Charles Elementary School

FIRMette_8 – Lee County – Pennington Gap – Leeman Field Park

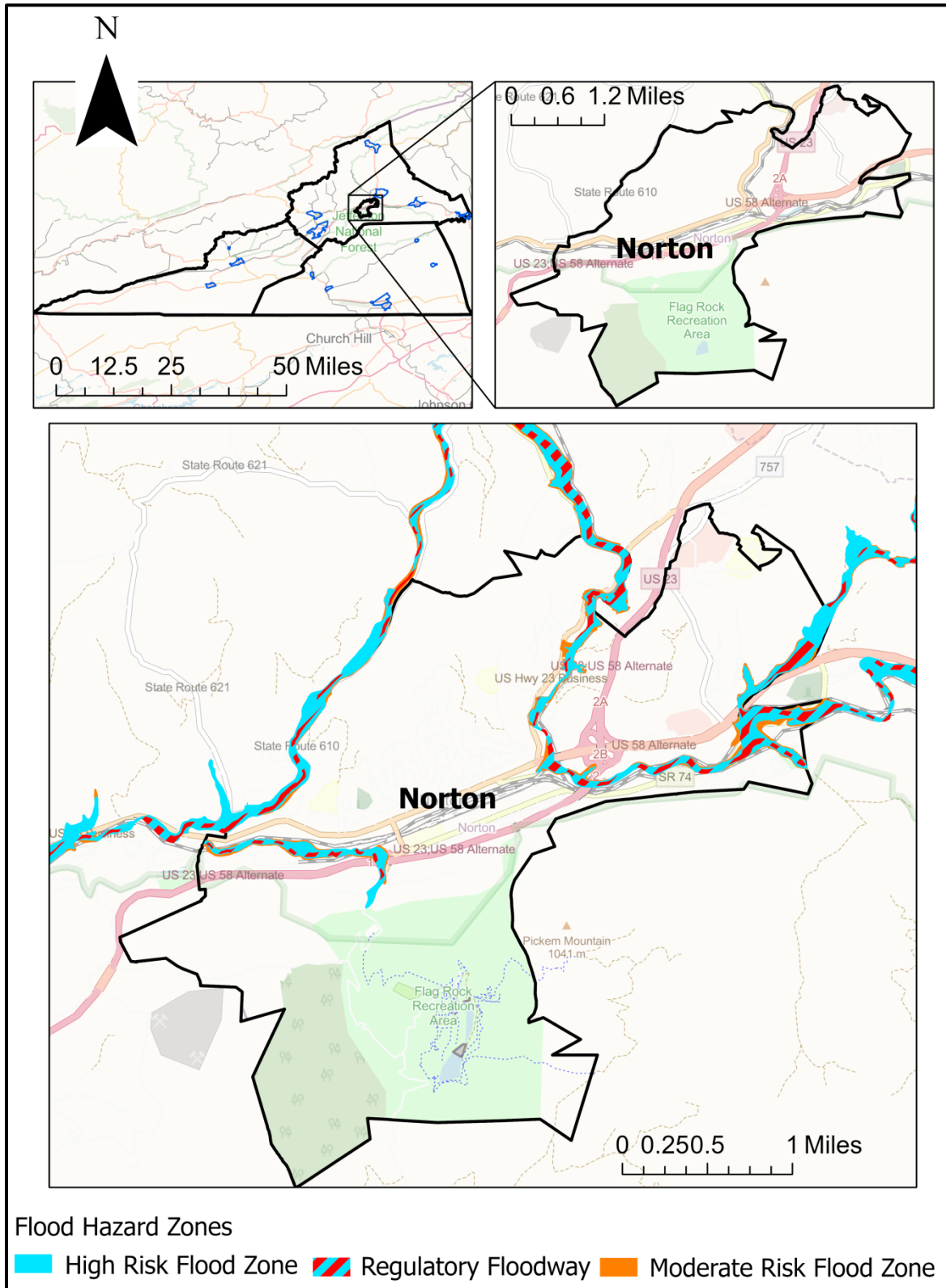
Project Area Map



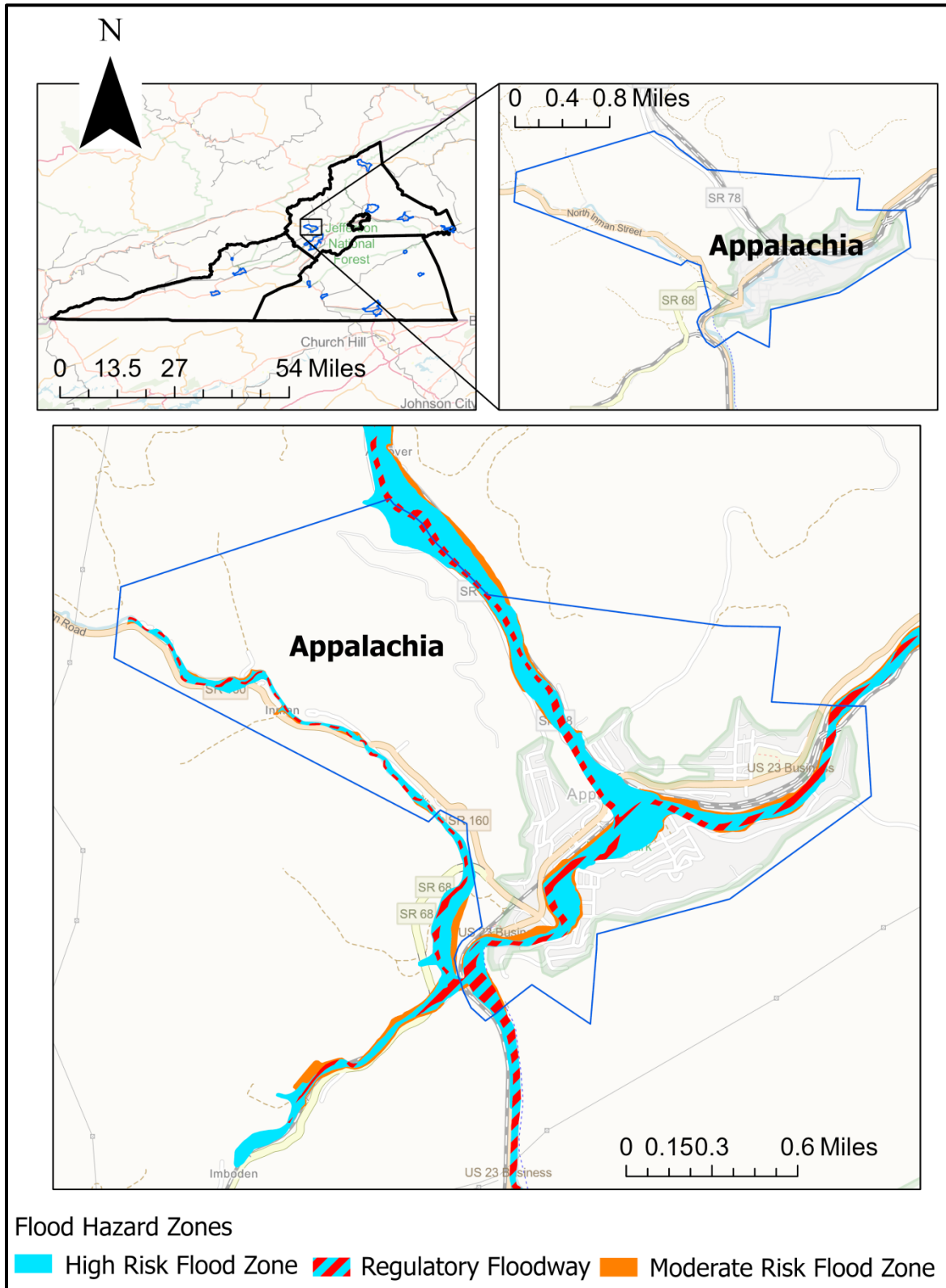
Social Vulnerability Index Score Map



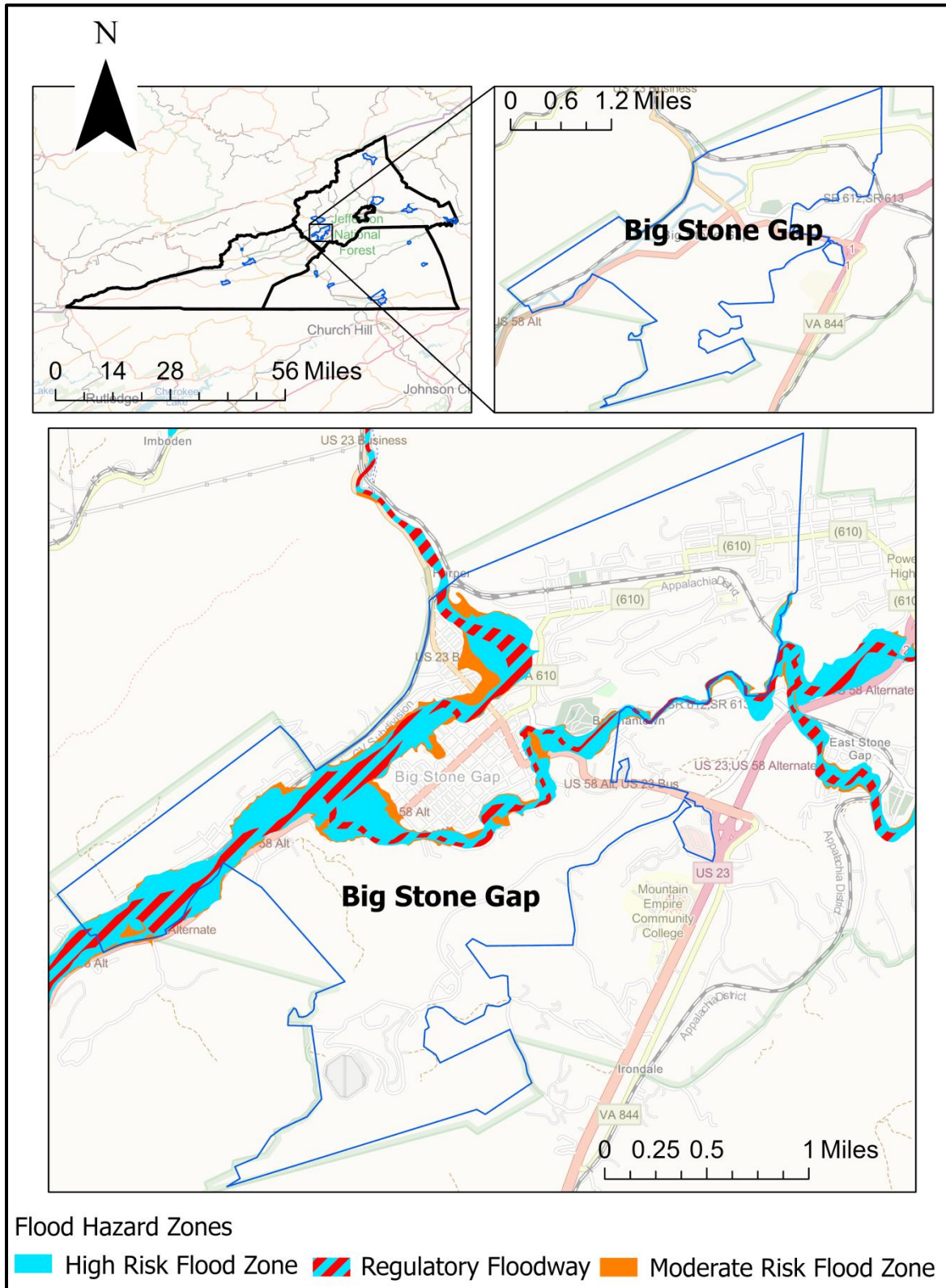
Flood Hazard Zone Map – City of Norton



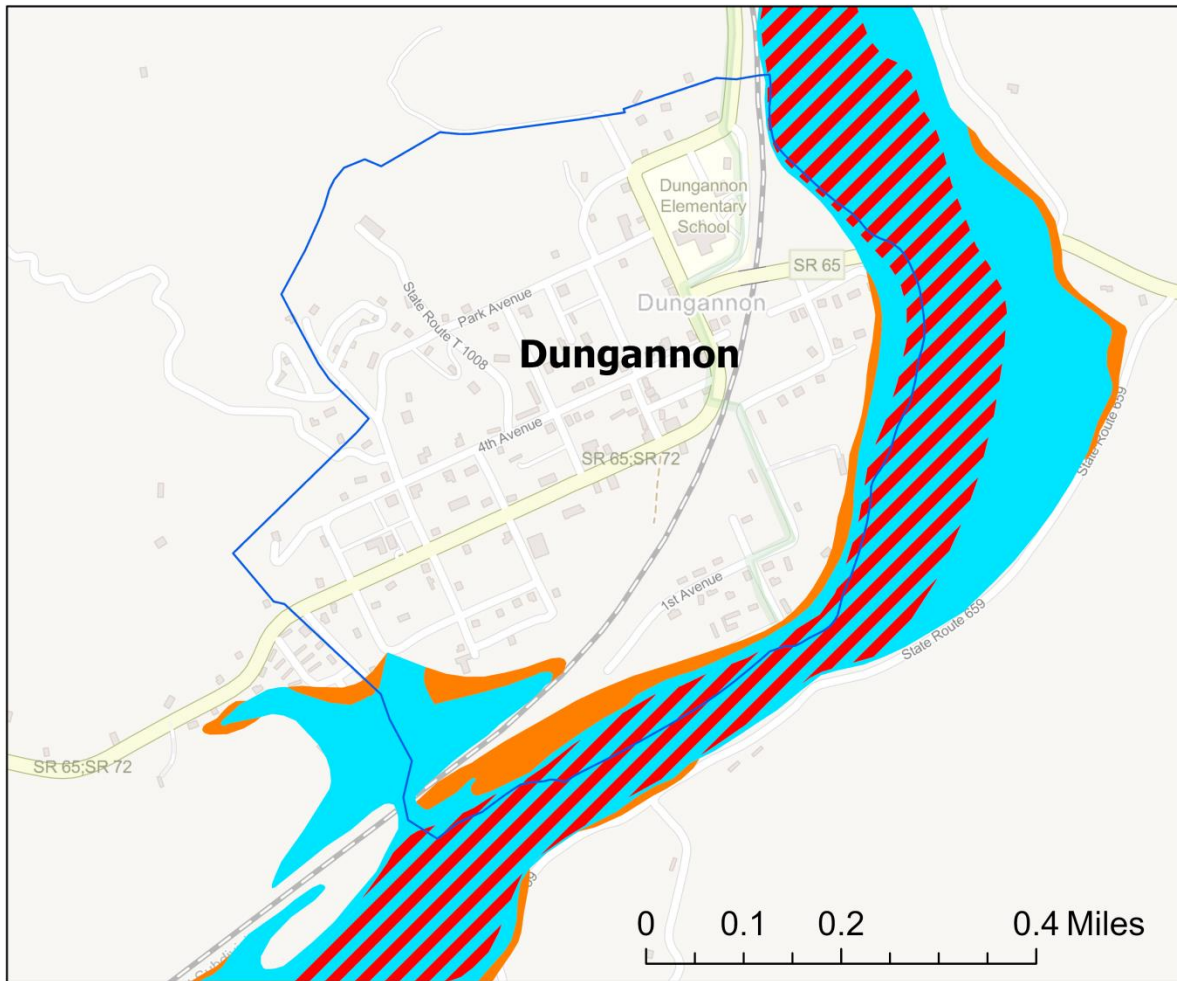
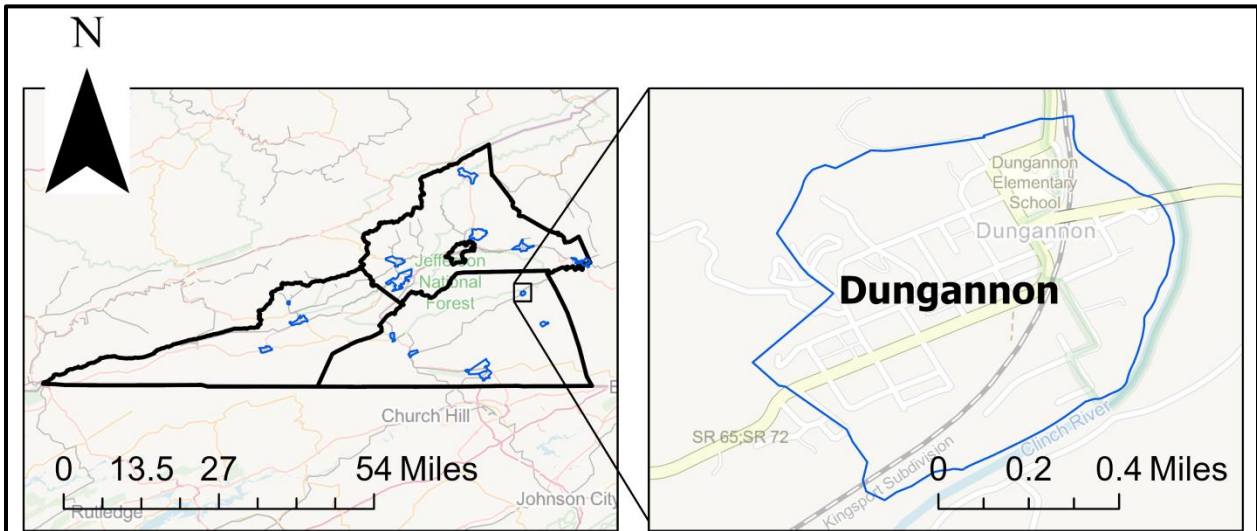
Flood Hazard Zone Map – Town of Appalachia



Flood Hazard Zone Map – Town of Big Stone Gap



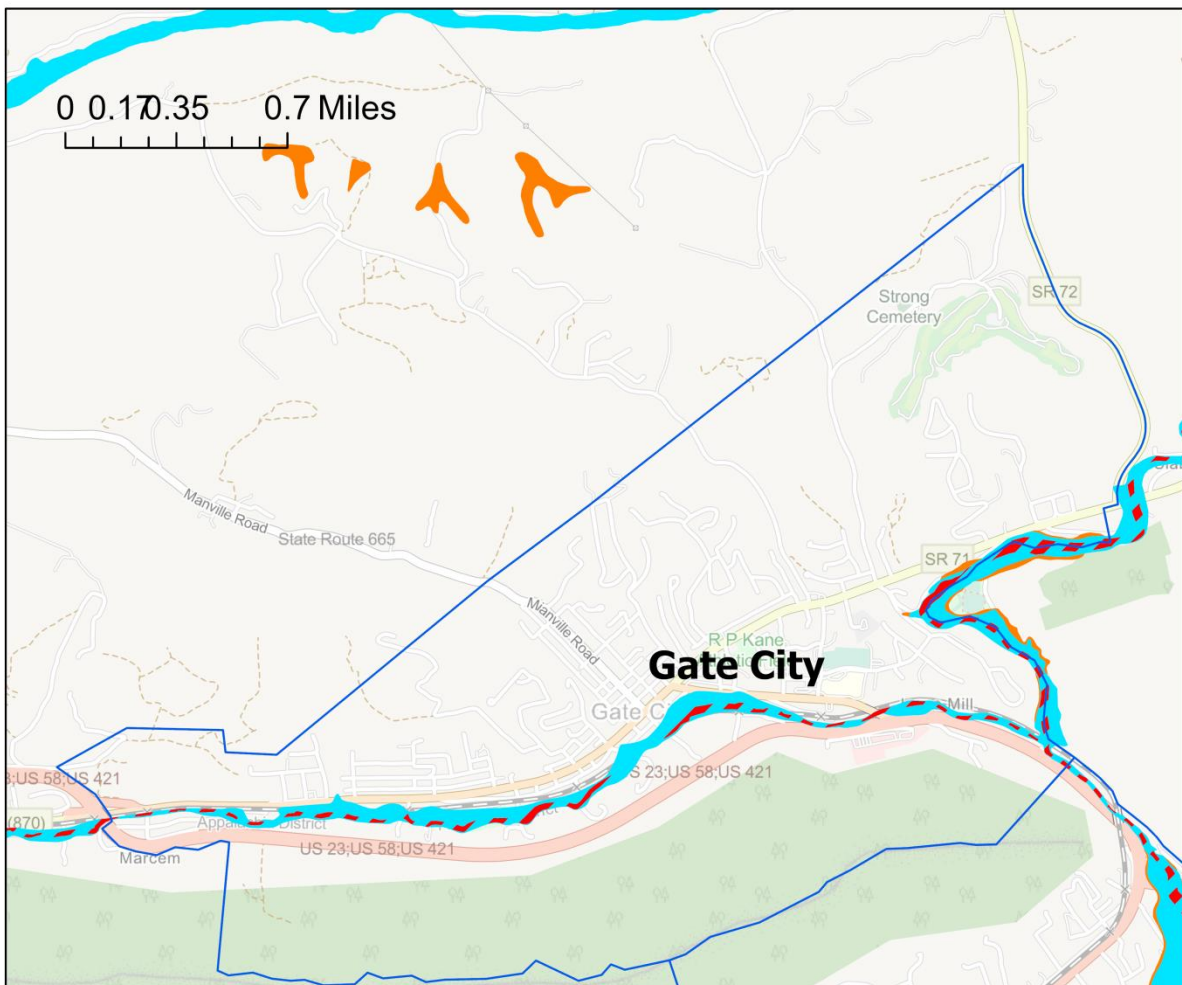
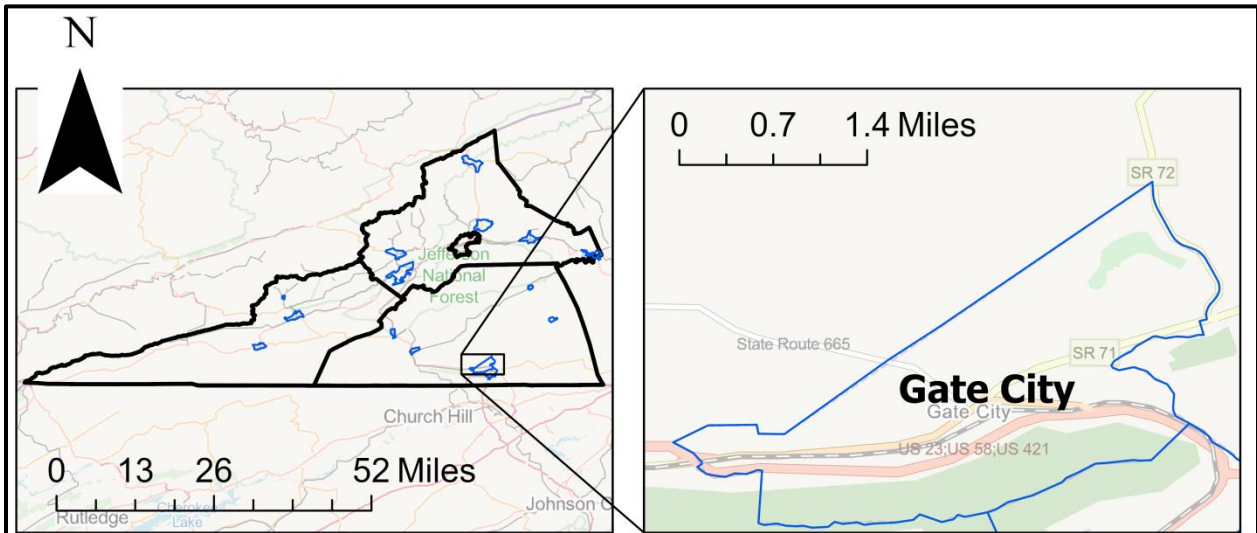
Flood Hazard Zone Map – Town of Dungannon



Flood Hazard Zones

-  High Risk Flood Zone
-  Regulatory Floodway
-  Moderate Risk Flood Zone

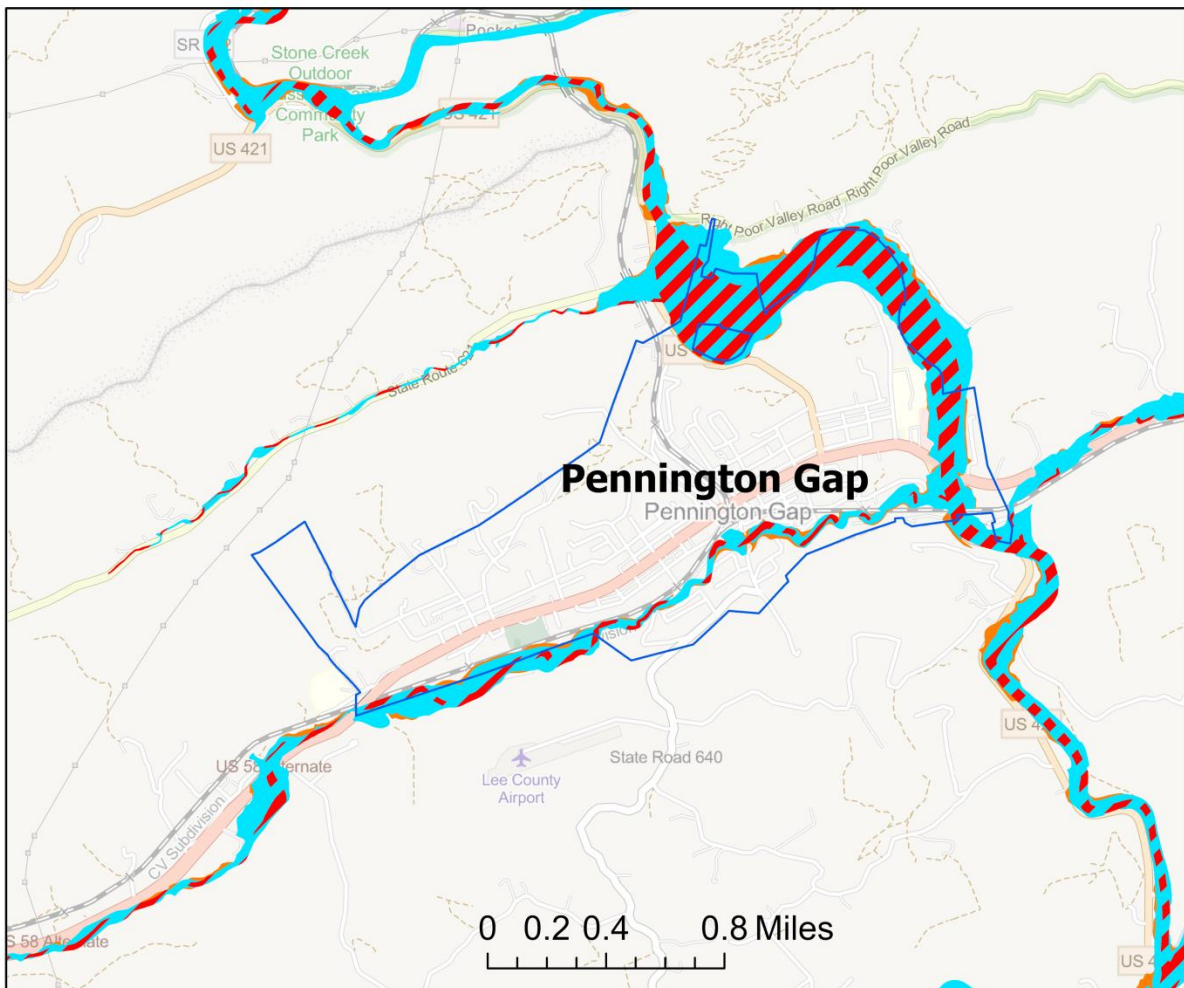
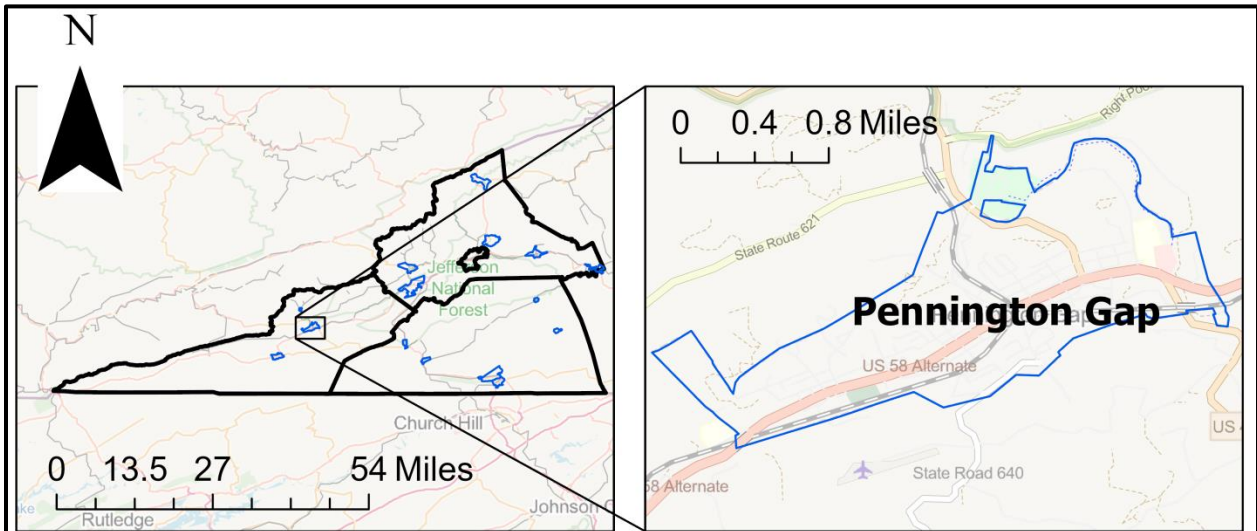
Flood Hazard Zone Map – Town of Gate City



Flood Hazard Zones

- High Risk Flood Zone
- Regulatory Floodway
- Moderate Risk Flood Zone

Flood Hazard Zone Map – Town of Pennington Gap



Flood Hazard Zones

-  High Risk Flood Zone
-  Regulatory Floodway
-  Moderate Risk Flood Zone

FIRMette #1 was created based on the following image (approximate location):

February 6, 2020, Wise County- Heavy rain pushed the Guest River over its banks and into a farm along US Highway 58 in the Tacoma section of Wise County.



Image source: TimesNews.net

National Flood Hazard Layer FIRMette 1



82°32'13"W 36°56'34"N



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/29/2021 at 9:45 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FIRMette #2 was created based on the following image (approximate location):

February 6, 2020, Wise County- Rising Powell River waters submerged the Big Stone Gap Greenbelt and nearby Jessie Lea RV Park.



Image source: TimesNews.net

National Flood Hazard Layer FIRMette 2



82°47'38"W 36°51'55"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/29/2021 at 9:57 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

82°47'1"W 36°51'26"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

FIRMette3 # was created based on the following image (approximate location):

February 6, 2020, Wise County- Rising water along the Big Stone Gap Greenbelt flooded ballfields and a portable toilet.

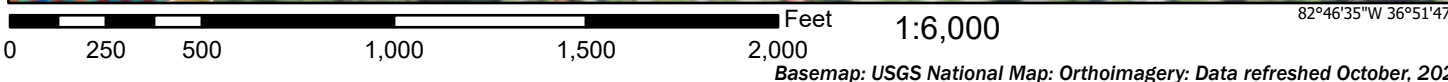
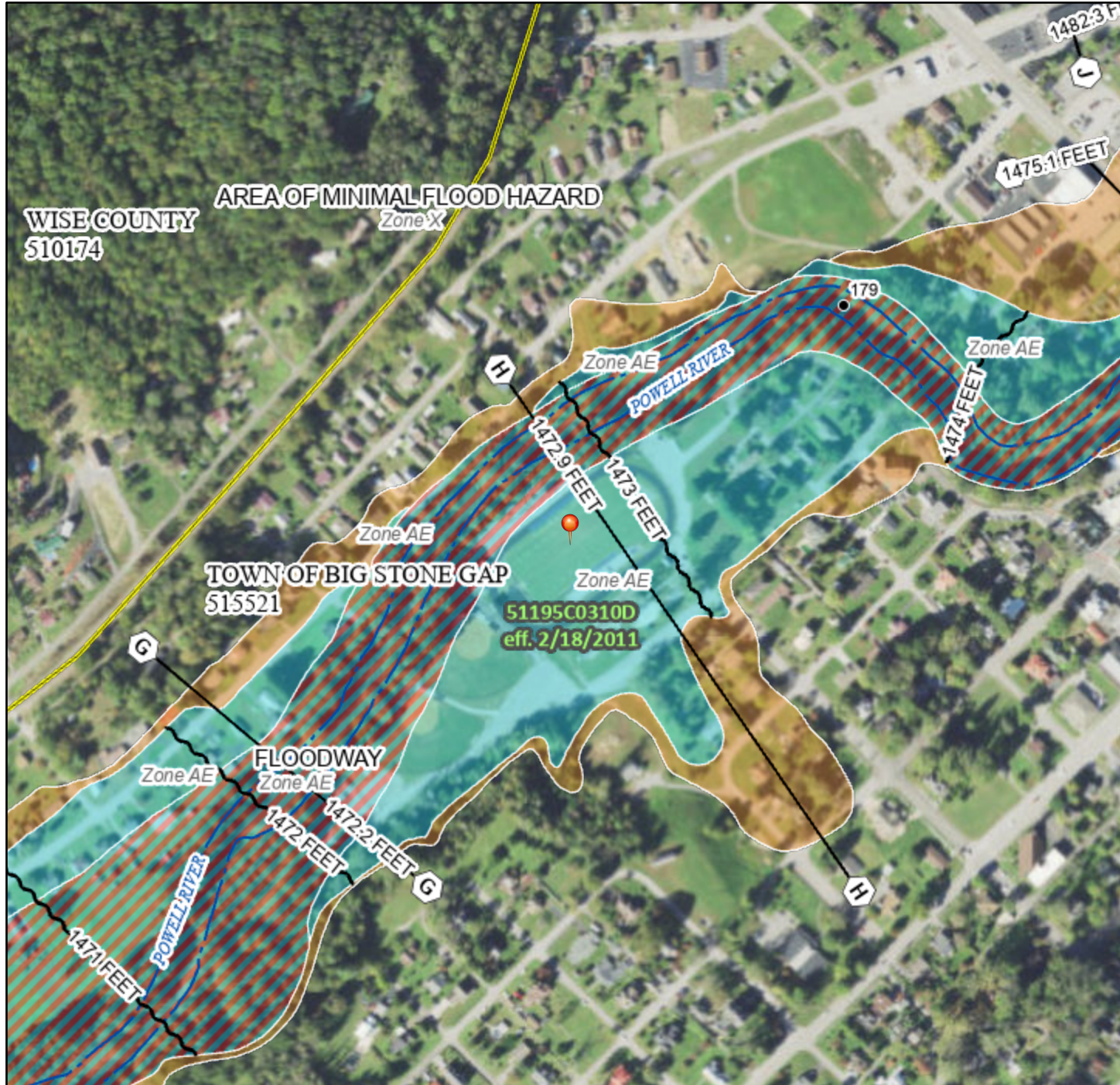


Image source: TimesNews.net

National Flood Hazard Layer FIRMette 3



82°47'12"W 36°52'16"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/29/2021 at 10:59 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FIRMette #4 was created based on the following image (approximate location):

February 6, 2020, Scott County- A car was stranded in flood waters along Route 65 in Clinchport, Scott County.

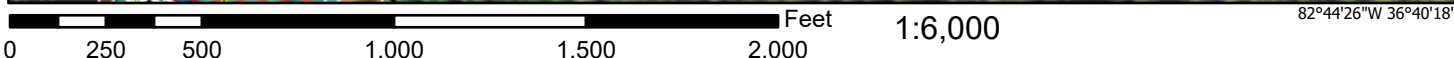
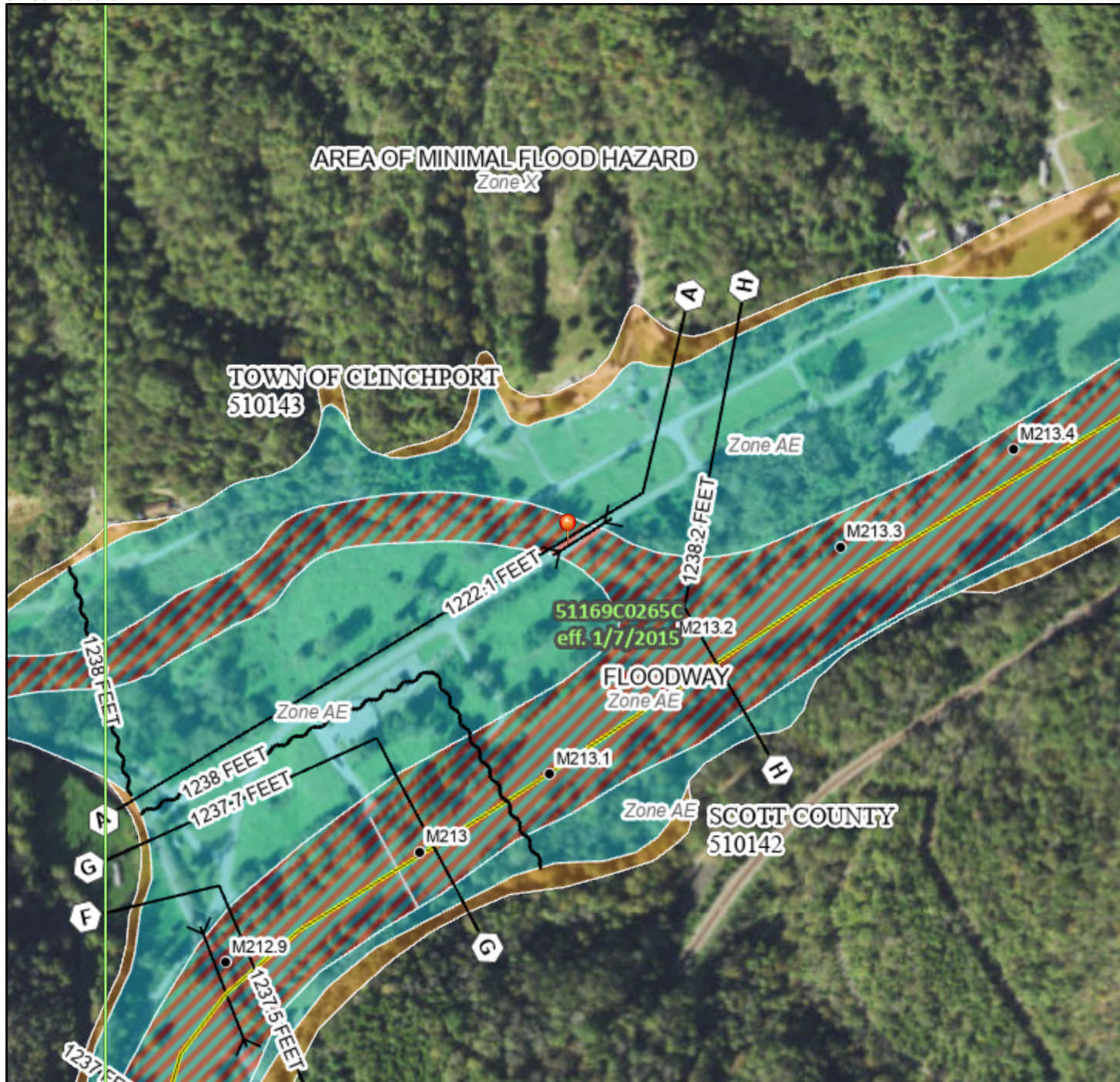


Image source: TimesNews.net

National Flood Hazard Layer FIRMette 4



82°45'3"W 36°40'46"N



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/29/2021 at 11:19 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.


This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FIRMette #5 was created based on the following:

February 6, 2020, Wise County- Multiple road closures in Big Stone Gap. The FIRMette shows the flood risk map at the intersection of Tate Springs and River Road.



A screenshot of a Facebook post from the Big Stone Gap Fire Department. The post includes a profile picture of the department, the name 'Big Stone Gap Fire Department', and the text: 'Due to heavy rain and rising water Wallens Ridge Boulevard, Tate Springs at River Road are closed. There is high water on US 58 at the old Barbara's gift shop, and Spring Street has standing high water near AK Fraley Park. Do not drive through high water turn around. BSGFD will continue to update as this weather event unfolds!'. At the bottom, it shows 35 likes, 7 comments, and 177 shares.

 **Big Stone Gap Fire Department** 
about 2 years ago

Due to heavy rain and rising water **Wallens Ridge Boulevard**, Tate Springs at River Road are closed. There is high water on US 58 at the old Barbara's gift shop, and Spring Street has standing high water near AK Fraley Park. Do not drive through high water turn around. BSGFD will continue to update as this weather event unfolds!

👍 35 💬 7 ➦ 177

National Flood Hazard Layer FIRMette 5



82°44'2"W 36°51'46"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
OTHER FEATURES		17.5 Water Surface Elevation
		Coastal Transect
OTHER FEATURES		Base Flood Elevation Line (BFE)
		Limit of Study
OTHER FEATURES		Jurisdiction Boundary
		Coastal Transect Baseline
OTHER FEATURES		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/29/2021 at 11:24 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FIRMette #6 was created based on the following image:

March 4, 2015, Scott County- A section of Route 65/72 between Fort Blackmore and Dungannon in Scott County is closed due to a section of the road collapsing.

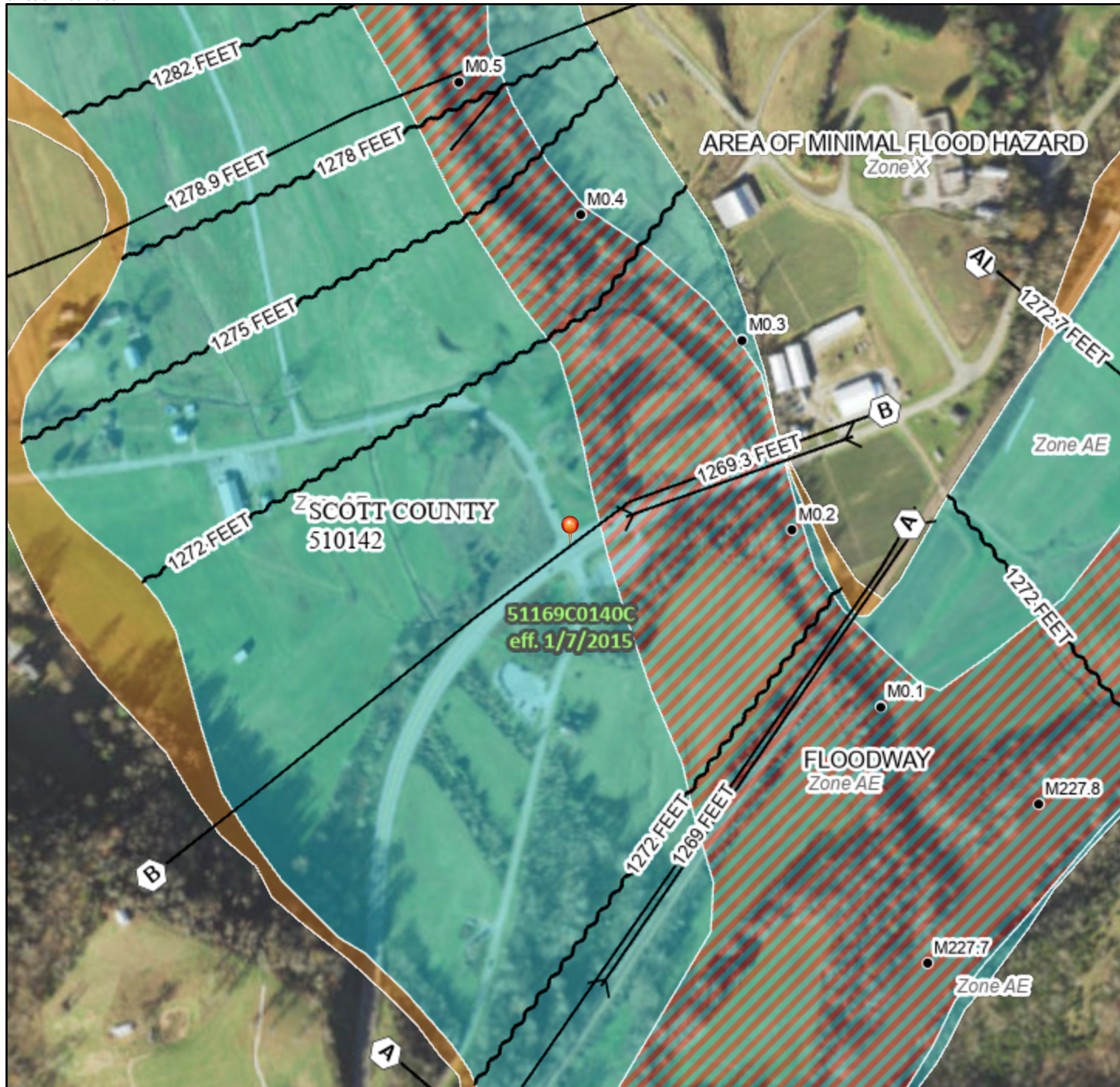


Image source: Johnson City Press

National Flood Hazard Layer FIRMette 6



82°35'8"W 36°46'35"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER AREAS		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation

OTHER FEATURES		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/29/2021 at 11:39 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FIRMette #7 and **FIRMette #8** were created for Lee County locations based on the quote below from the Lee County Administrator, Dane Poe:

“St. Charles/Stone Creek (Straight Creek) areas and east Pennington Gap along North Fork of Powell River. I can go back to 1963, 1977, 80’s, 90’s but don’t have ready copies of news stories (other than the 1963, 1977 ones I have at home left to me courtesy of my parents).”

- **LENOWISCO_FIRMette7** is for St. Charles, and the pin was placed at St Charles Elementary School.
- **LENOWISCO_FIRMette8** is for Pennington Gap, and the pin was placed at Leeman Field Park.

National Flood Hazard Layer FIRMette 7



83°3'43"W 36°48'29"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 83°3'6"W 36°48'N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation 17.5
MAP PANELS		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

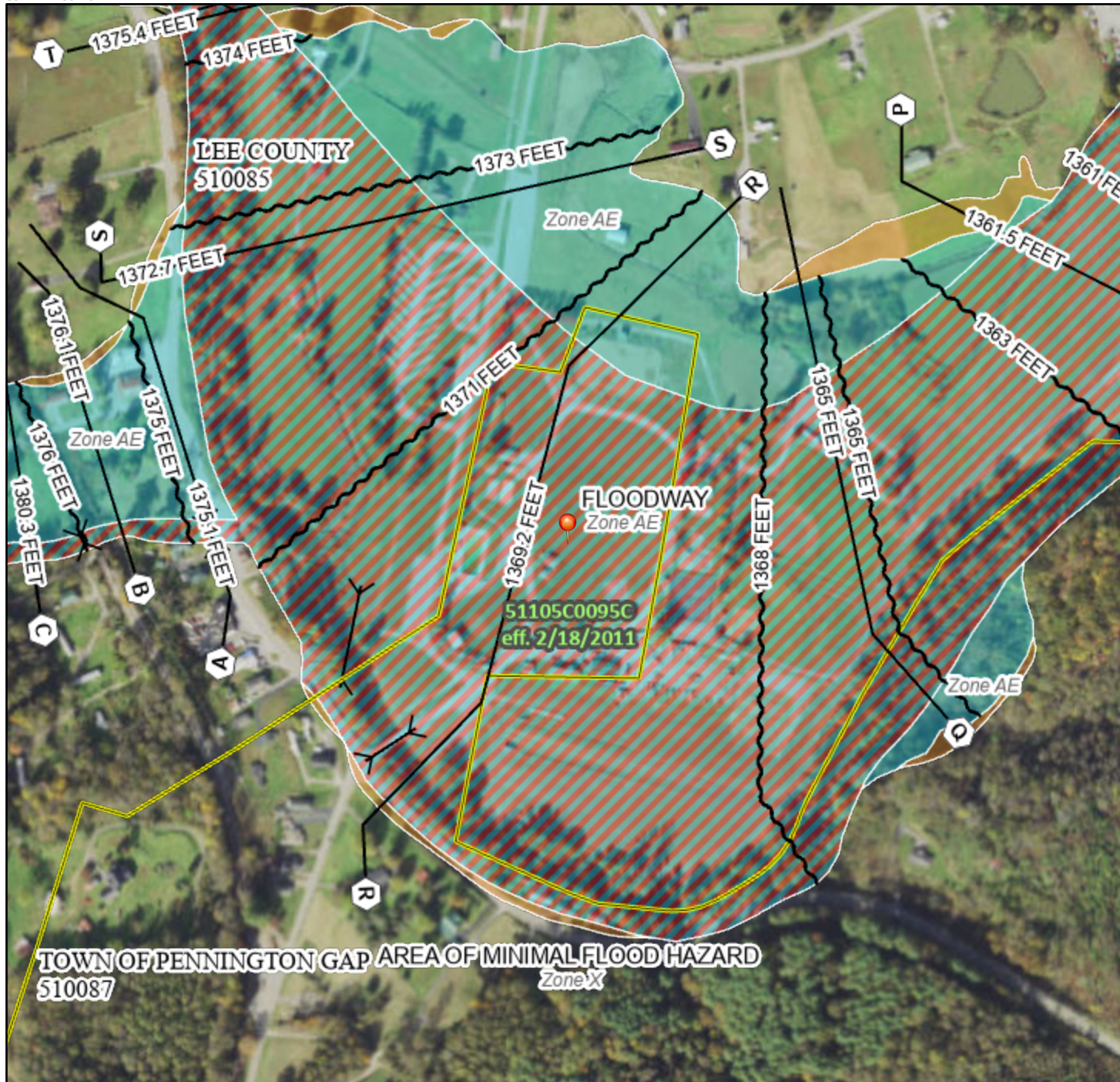
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/30/2021 at 12:14 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

National Flood Hazard Layer FIRMette 8



83°2'2"W 36°46'21"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
 - OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D
 - OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
 - OTHER FEATURES**
 - 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
 - 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/30/2021 at 12:21 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

APPENDIX E: NEED FOR ASSISTANCE – LEE COUNTY

Lee County 2010 Census Tract Map

Town of Pennington Gap 2010 Census Tract Map

Lee County Social Vulnerability Index Score Map

Lee County Opportunity Zone

Lee County Income Profile

Town of Pennington Gap Income Profile

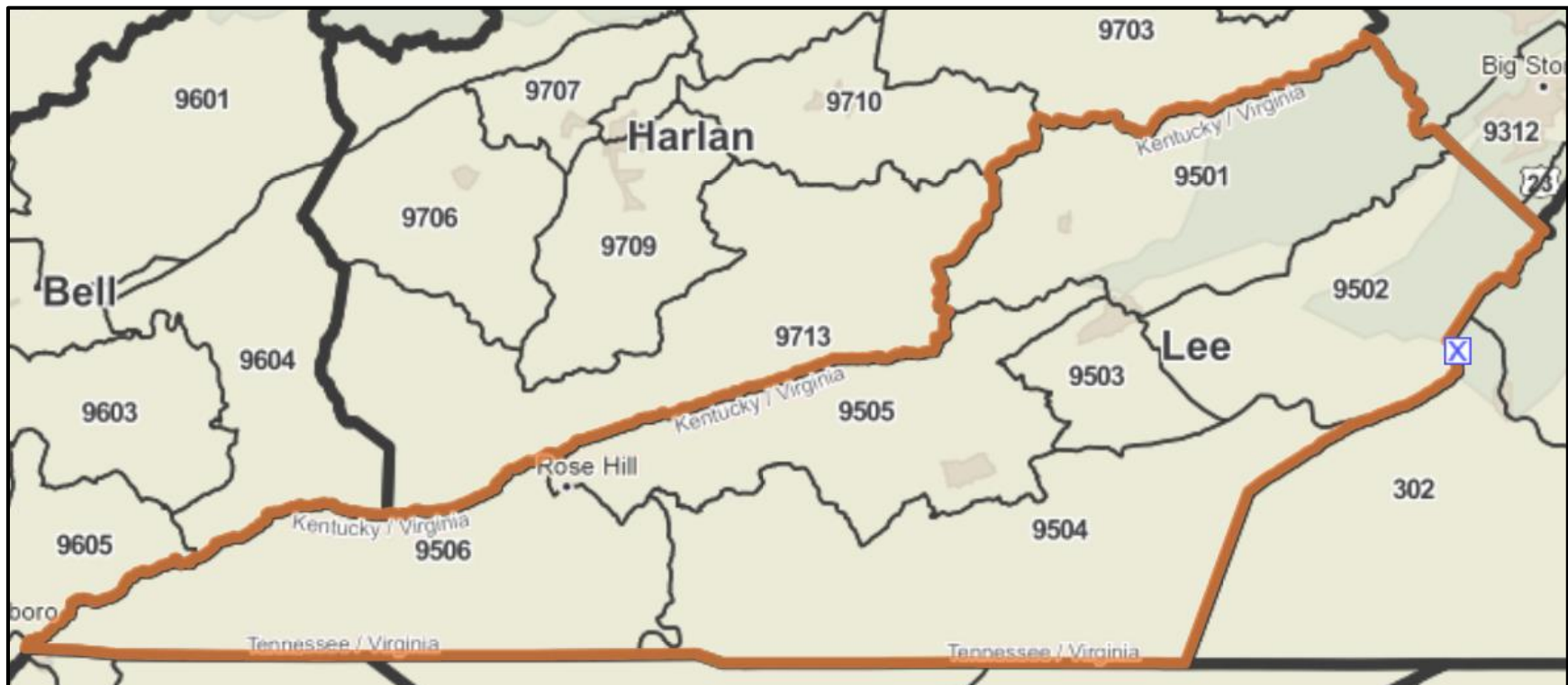
Lee County

Census Tracts*

*NOTE: *Adapt Virginia's Vulnerability Viewer* currently uses 2010 census tracts to display Virginia's Social Vulnerability Index Scores.

Lee County is composed of six 2010 census tracts (9501, 9502, 9503, 9504, 9505, and 9506).

Lee County 2010 Census Tract Map



Source: PolicyMap

Town of Pennington Gap

Pennington Gap mostly falls within 2010 census tracts **9501** and **9503**. A small portion of the town lies within tract **9502**.

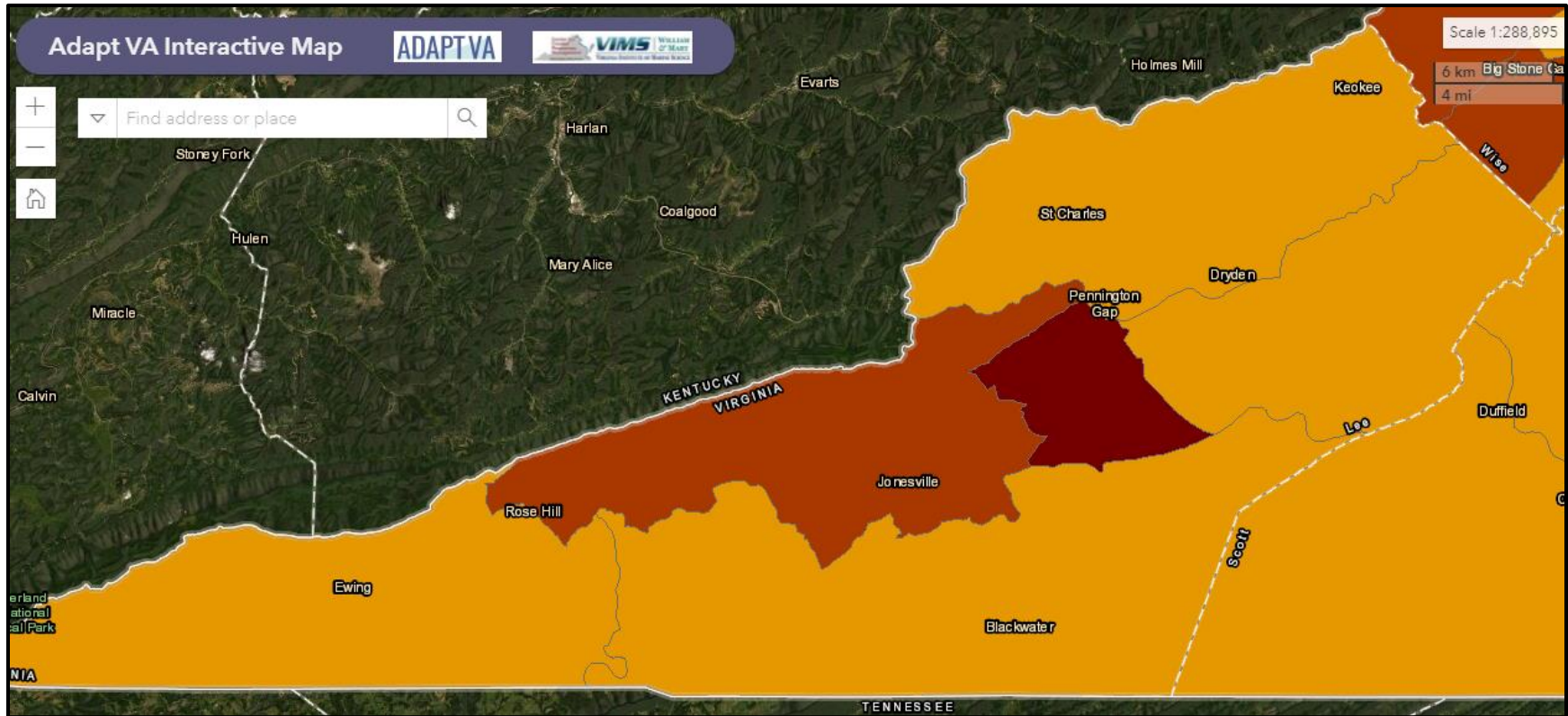
Map of Pennington Gap, 2010 Census Tracts 9501, 9502, and 9503



Source: PolicyMap

Lee County Social Vulnerability Index Score Map

The average Social Vulnerability Index Score across all 2010 census tracts in Lee County is **0.87 (moderate)**.



Source: Adapt Virginia, Virginia Vulnerability Viewer, Social Vulnerability Index Score

Legend - Social Vulnerability Index Score

- Very Low Social Vulnerability (Less than -1.0)
- Low Social Vulnerability (-1.0 to 0.0)
- Moderate Social Vulnerability (0.0 to 1.0)
- High Social Vulnerability (1.0 to 1.5)
- Very High Social Vulnerability (More than 1.5)

Opportunity Zones

Census tract **9505** in Lee County qualifies as a federally designated Opportunity Zone.

Lee County Opportunity Zone, Census Tract 9505

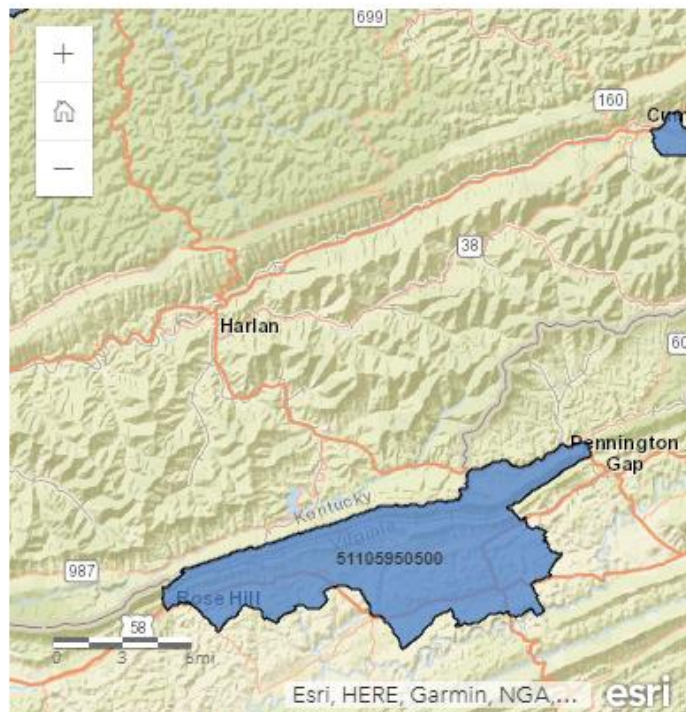
Census Tract 9505, Jonesville, Virginia

Census Tract 9505 is a **Low-Income Community** Opportunity Zone located in **Jonesville, Virginia**.

This **68 square mile** census tract has a population of approximately **5,300** and is the only Opportunity Zone in **Lee County**.

The adjacent map shows the location of this Opportunity Zone in Virginia.

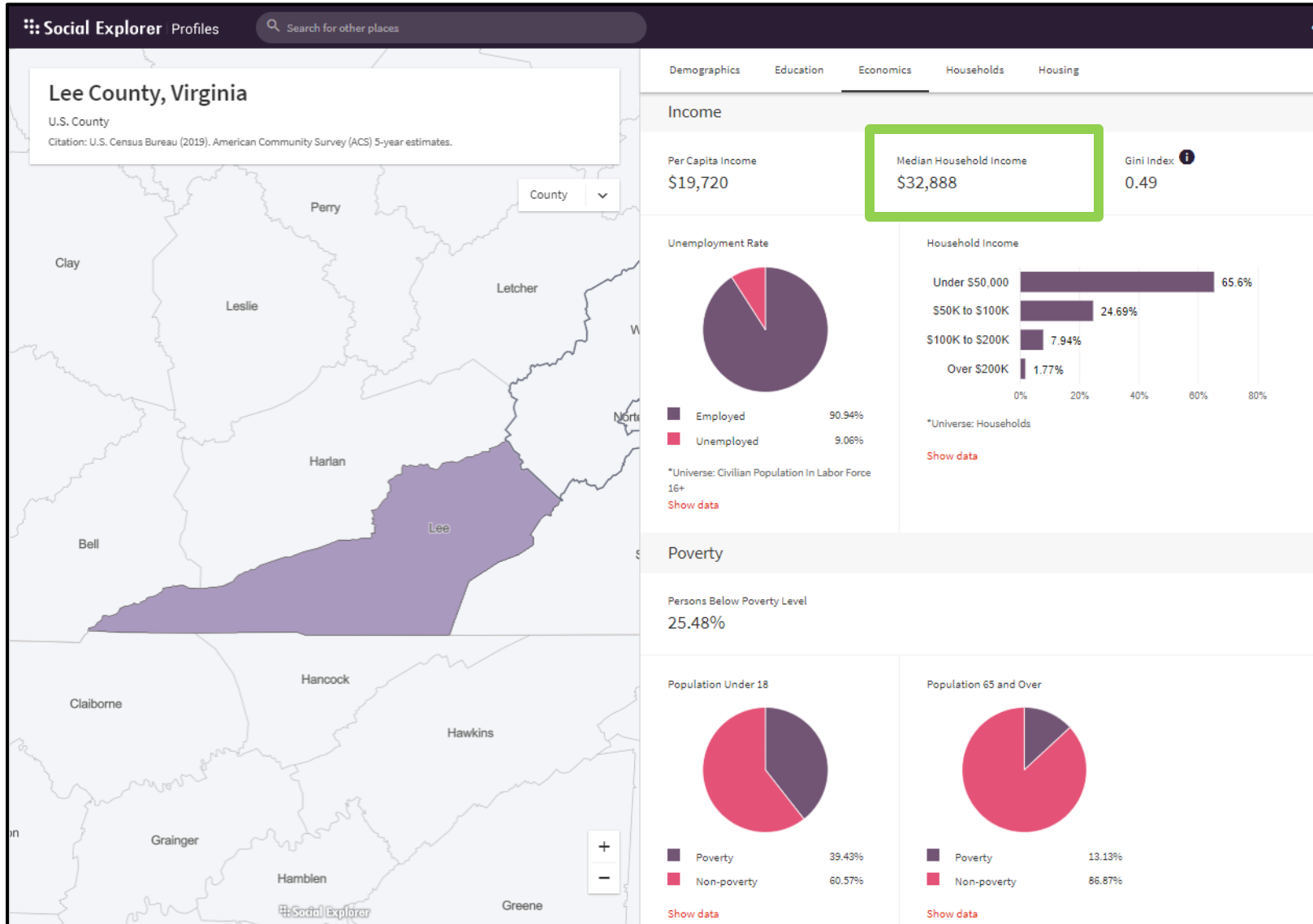
- [Opportunity Zone Demographics](#)
- [Virginia OZ Funds](#)
- [List of Similar Opportunity Zones](#)



[View larger map](#)

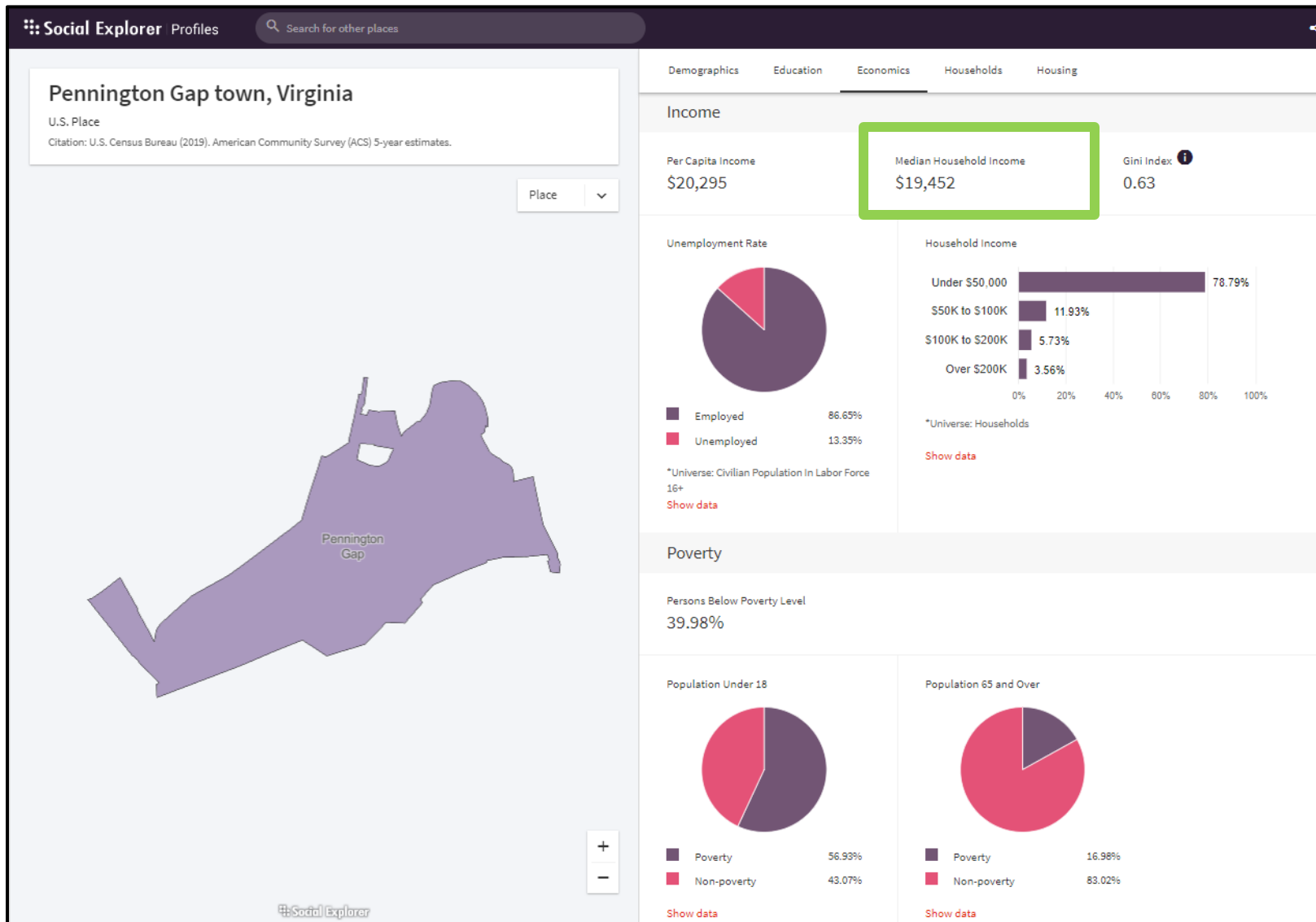
Source: *OpportunityDb*

Lee County Income Profile



Source: Social Explorer; U.S. Census Bureau

Town of Pennington Gap Income Profile



Source: Social Explorer; U.S. Census Bureau

APPENDIX F: NEED FOR ASSISTANCE – SCOTT COUNTY

Scott County 2010 Census Tract Map

Town of Dungannon 2010 Census Tract Map

Town of Gate City 2010 Census Tract Map

Scott County Social Vulnerability Index Score Map

Scott County Opportunity Zone

Scott County Income Profile

Town of Dungannon Income Profile

Town of Gate City Income Profile

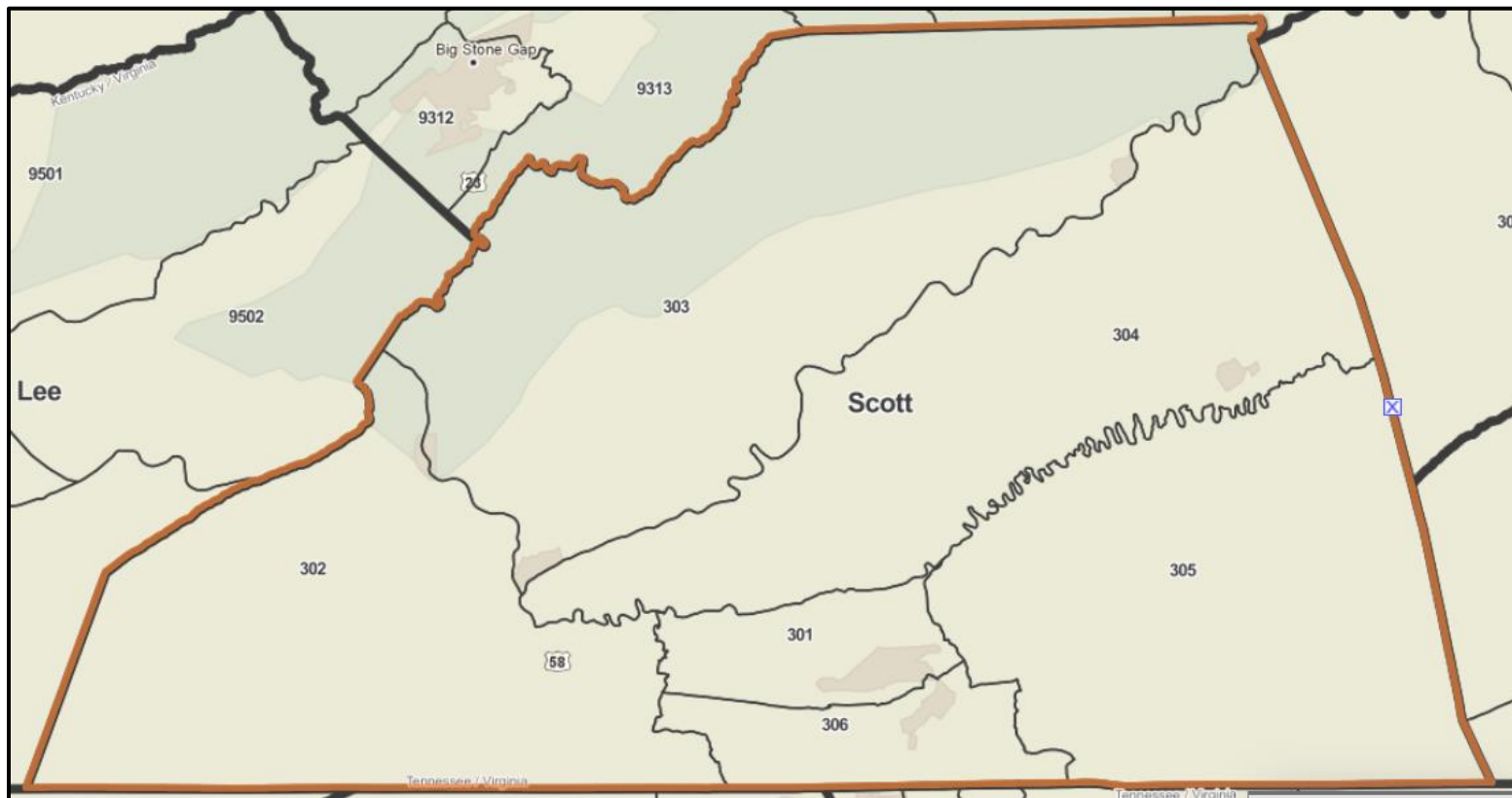
Scott County

Census Tracts*

*NOTE: *Adapt Virginia's Vulnerability Viewer* currently uses 2010 census tracts to display Virginia's Social Vulnerability Index Scores.

Scott County is composed of six 2010 census tracts (**301, 302, 303, 304, 305, and 306**).

Scott County 2010 Census Tract Map

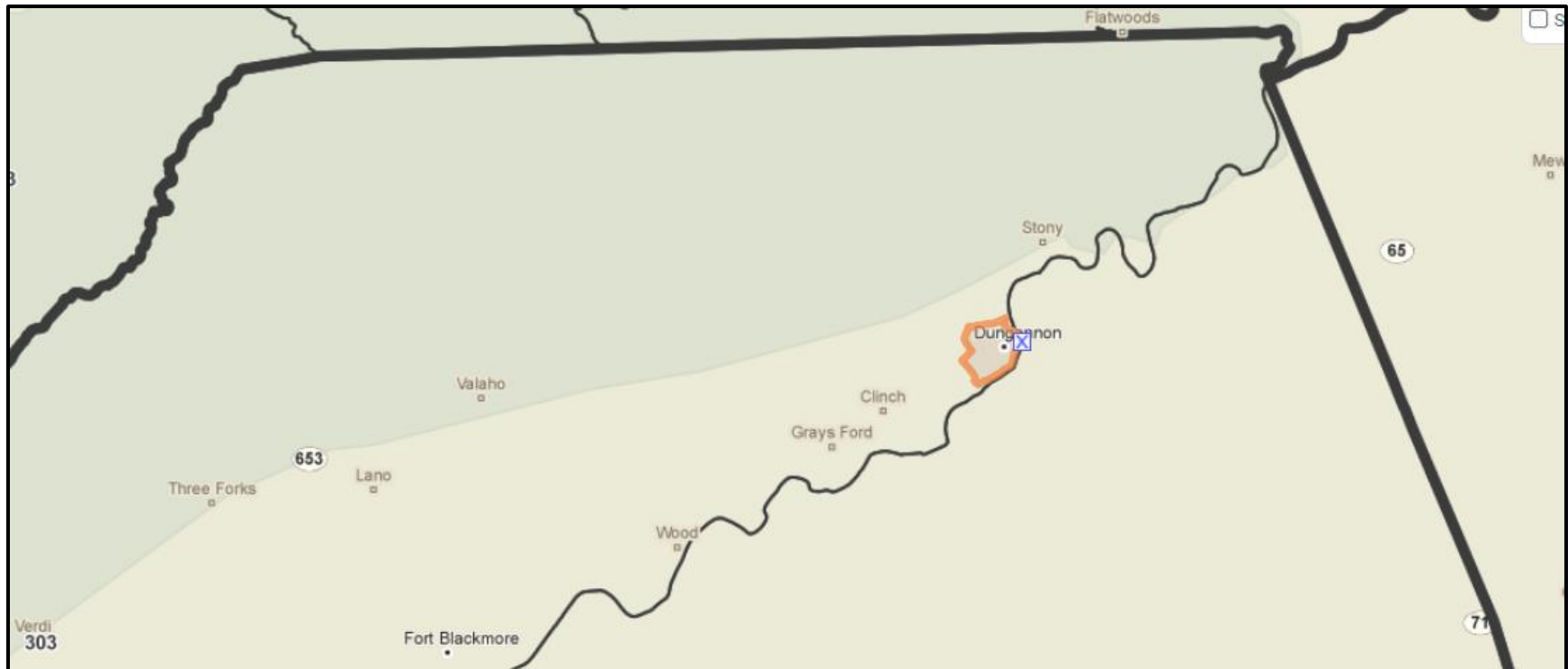


Source: PolicyMap

Town of Dungannon

Dungannon is located within census tract 303.

Map of Dungannon, 2010 Census Tract 303

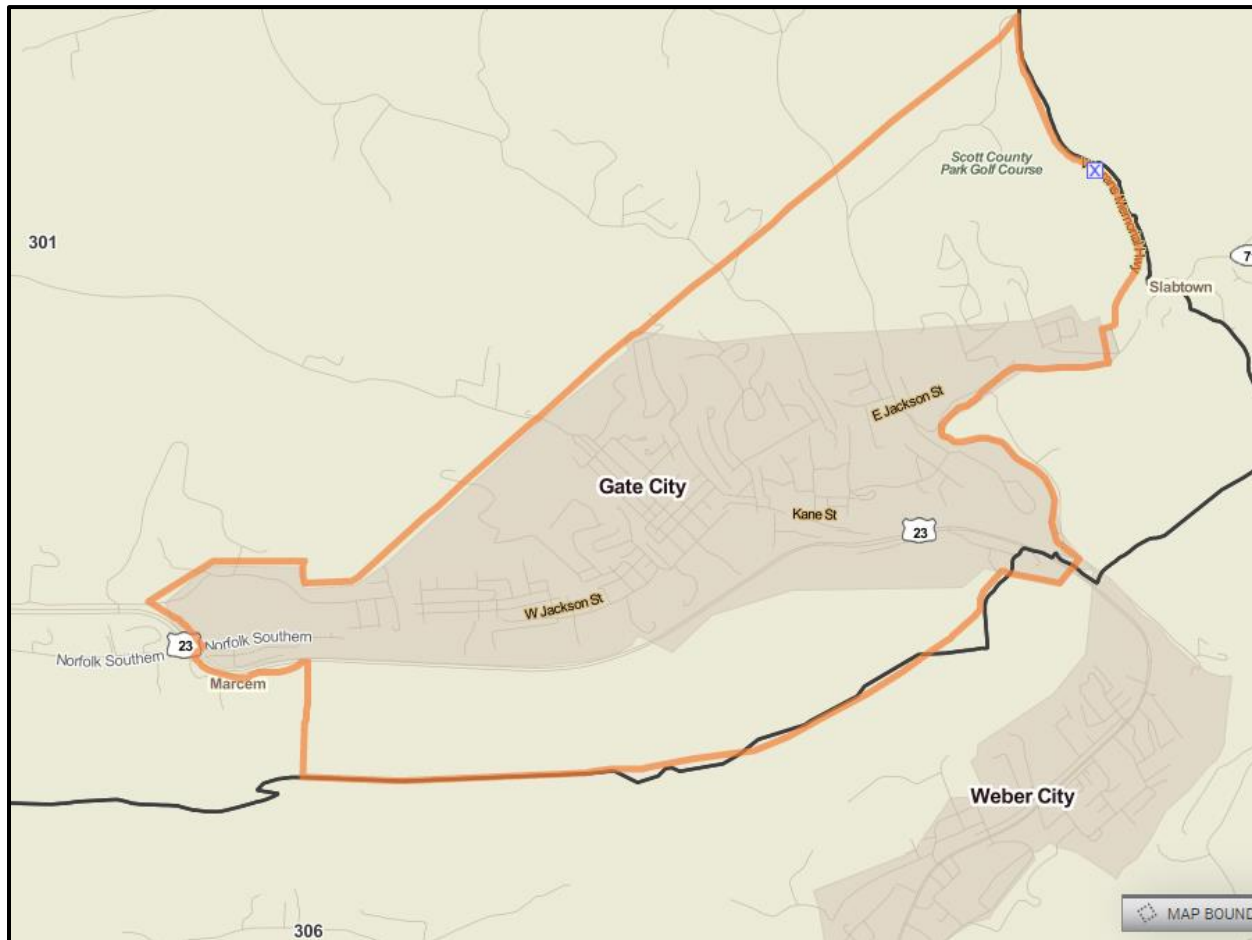


Source: PolicyMap

Town of Gate City

The vast majority of Gate City is located within census tract **301**; however a very small portion of the town is located in tract **306**.

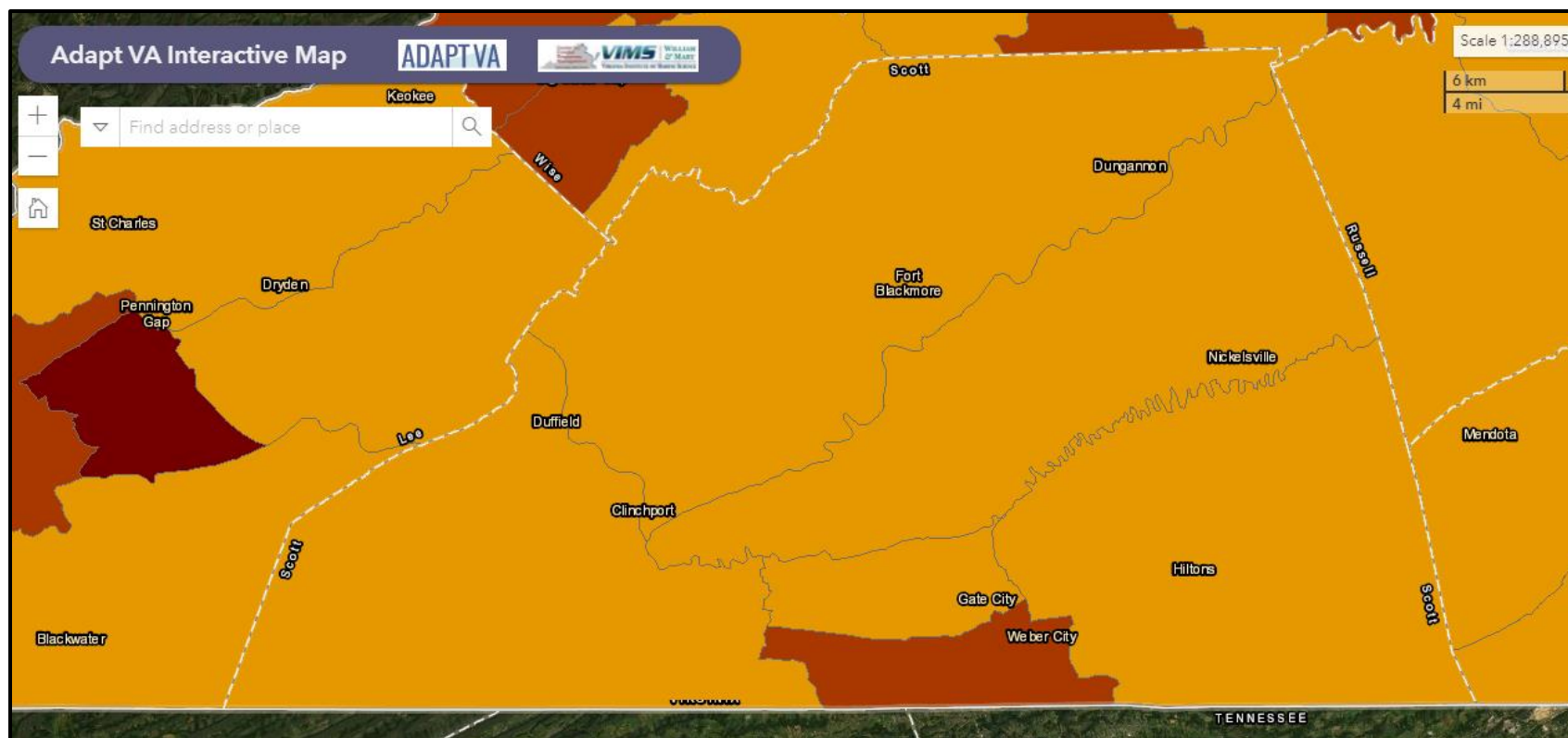
Map of Gate City, 2010 Census Tracts 301 and 306



Source: PolicyMap

Scott County Social Vulnerability Index Score Map

The average Social Vulnerability Index Score across all 2010 census tracts in Scott County is **0.78 (moderate)**.



Source: Adapt Virginia, Virginia Vulnerability Viewer, Social Vulnerability Index Score

Legend - Social Vulnerability Index Score

- Very Low Social Vulnerability (Less than -1.0)
- Low Social Vulnerability (-1.0 to 0.0)
- Moderate Social Vulnerability (0.0 to 1.0)
- High Social Vulnerability (1.0 to 1.5)
- Very High Social Vulnerability (More than 1.5)

Opportunity Zones

Census tract **306** in Scott County qualifies as a federally designated Opportunity Zone. A very small portion of Gate City is situated within this Opportunity Zone.

Scott County Opportunity Zone, Census Tract 306

Census Tract 306, Weber City, Virginia

Census Tract 306 is a **Low-Income Community Opportunity Zone** located in **Weber City, Virginia**.

This **21 square mile** census tract has a population of approximately **4,100** and is the only Opportunity Zone in **Scott County**.

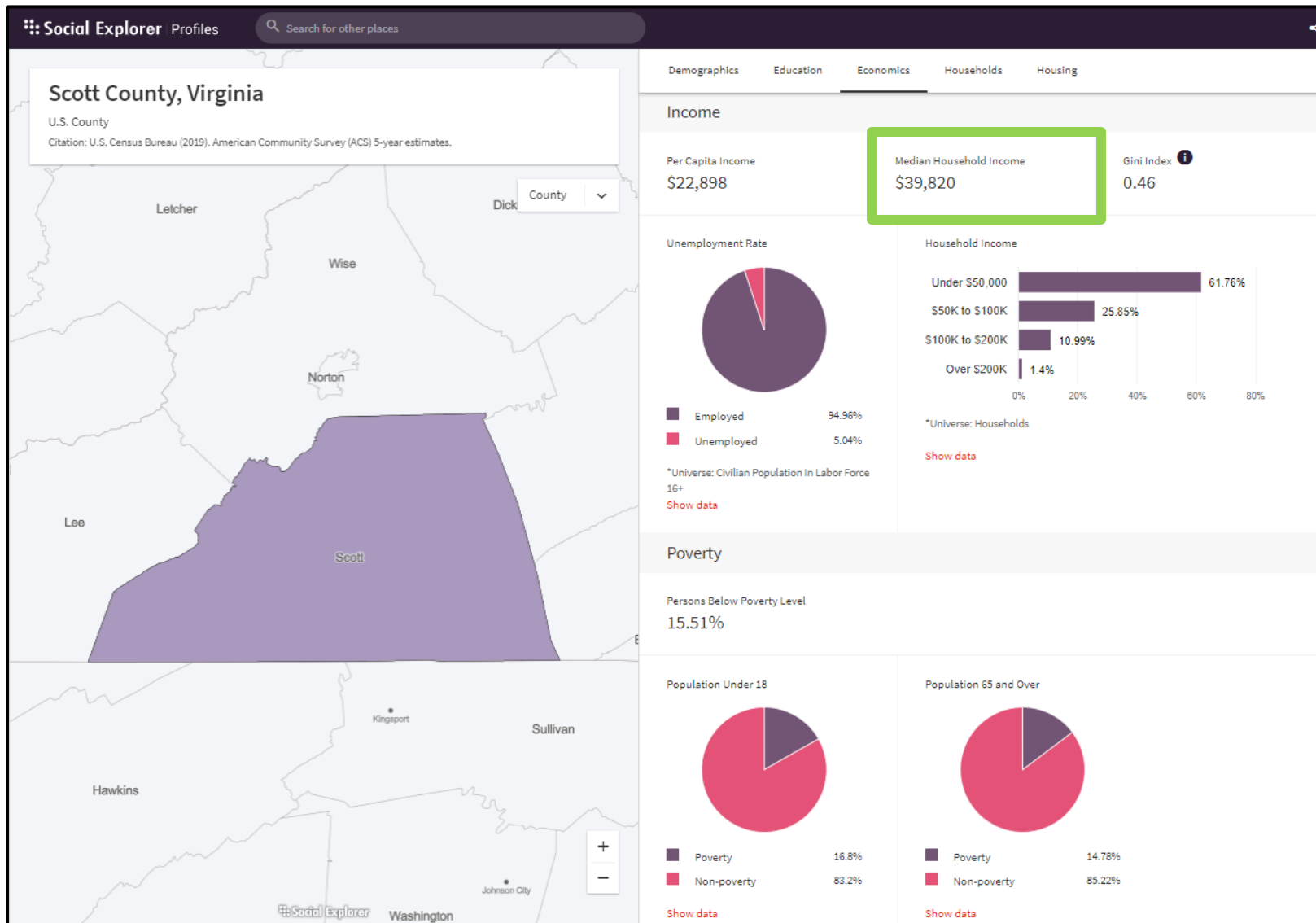
The adjacent map shows the location of this Opportunity Zone in Virginia.

- [Opportunity Zone Demographics](#)
- [Virginia OZ Funds](#)
- [List of Similar Opportunity Zones](#)



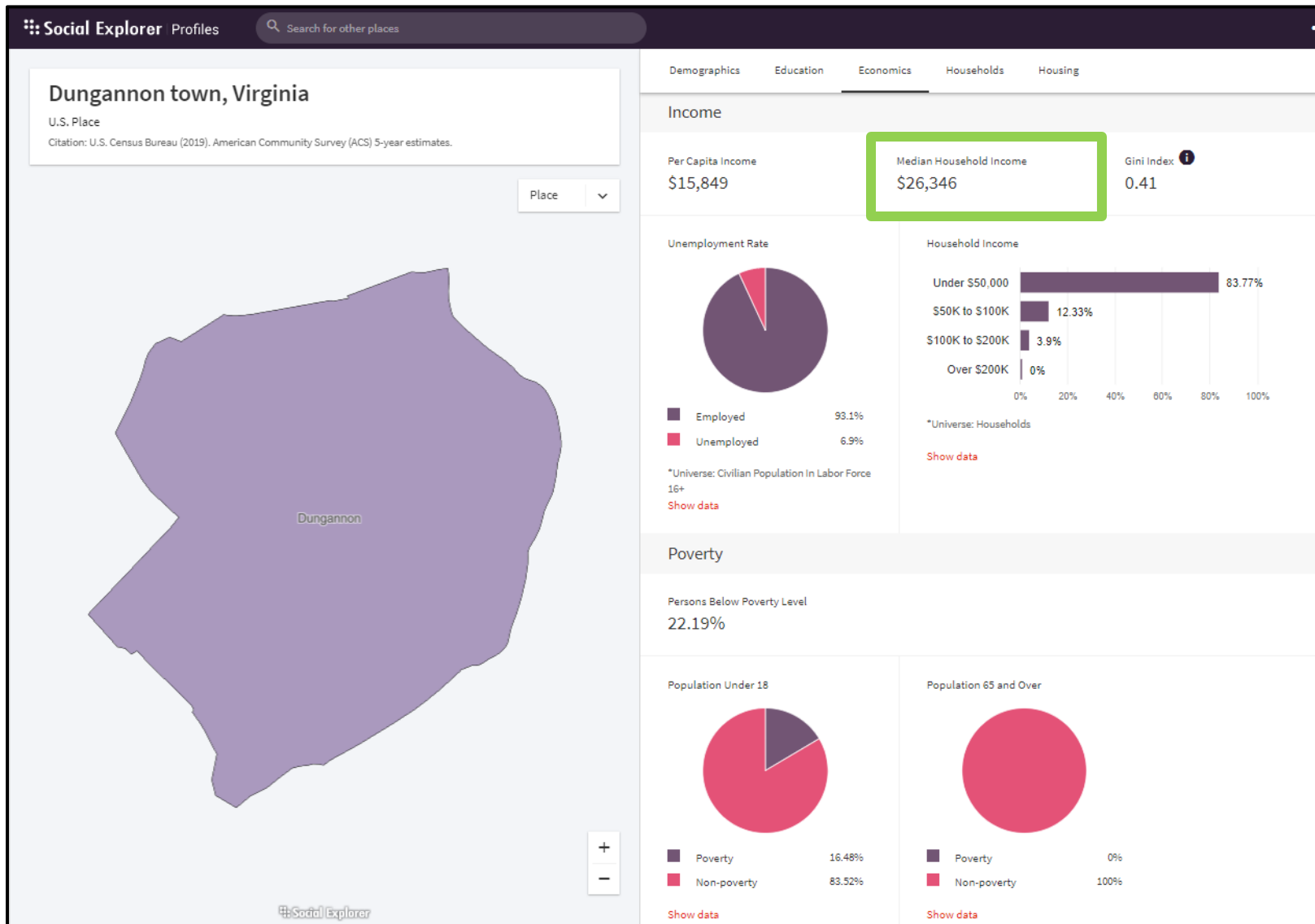
Source: OpportunityDb

Scott County Income Profile



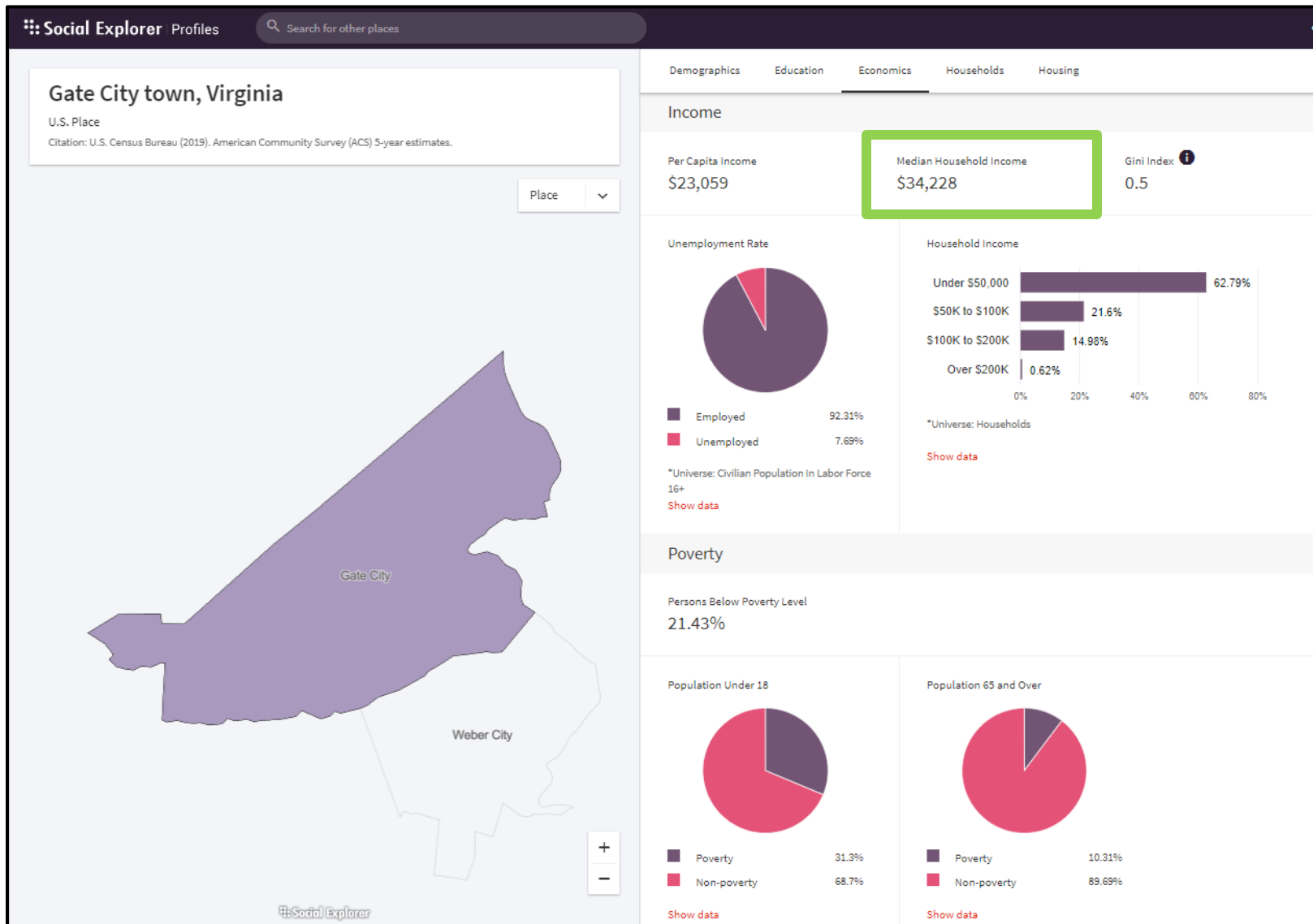
Source: Social Explorer; U.S. Census Bureau

Town of Dungannon Income Profile



Source: Social Explorer; U.S. Census Bureau

Town of Gate City Income Profile



Source: Social Explorer; U.S. Census Bureau

APPENDIX G: NEED FOR ASSISTANCE – WISE COUNTY

Wise County 2010 Census Tract Map

Town of Appalachia 2010 Census Tract Map

Town of Big Stone Gap 2010 Census Tract Map

Wise County Social Vulnerability Index Score Map

Wise County Opportunity Zones

Wise County Income Profile

Town of Appalachia Income Profile

Town of Big Stone Gap Income Profile

Wise County

Census Tracts*

*NOTE: *Adapt Virginia's Vulnerability Viewer* currently uses 2010 census tracts to display Virginia's Social Vulnerability Index Scores.

Wise County is composed of eleven 2010 census tracts (**9307, 9308, 9309, 9310, 9311, 9312, 9313, 9314, 9315, 9316, and 9317**).

Wise County 2010 Census Tract Map

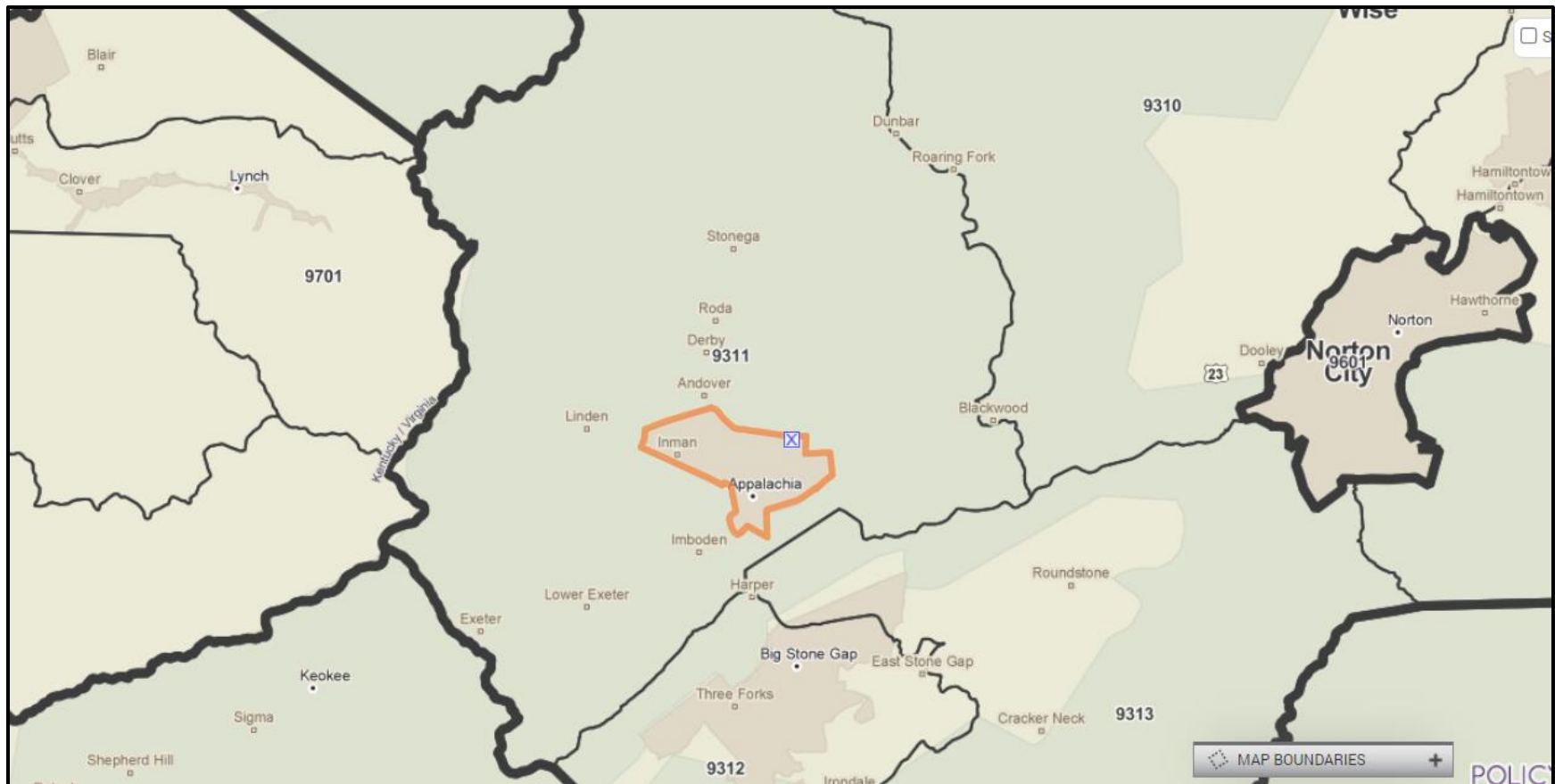


Source: PolicyMap

Town of Appalachia

The Town of Appalachia is located within census tract **9311**.

Map of Appalachia (Town), 2010 Census Tract 9311

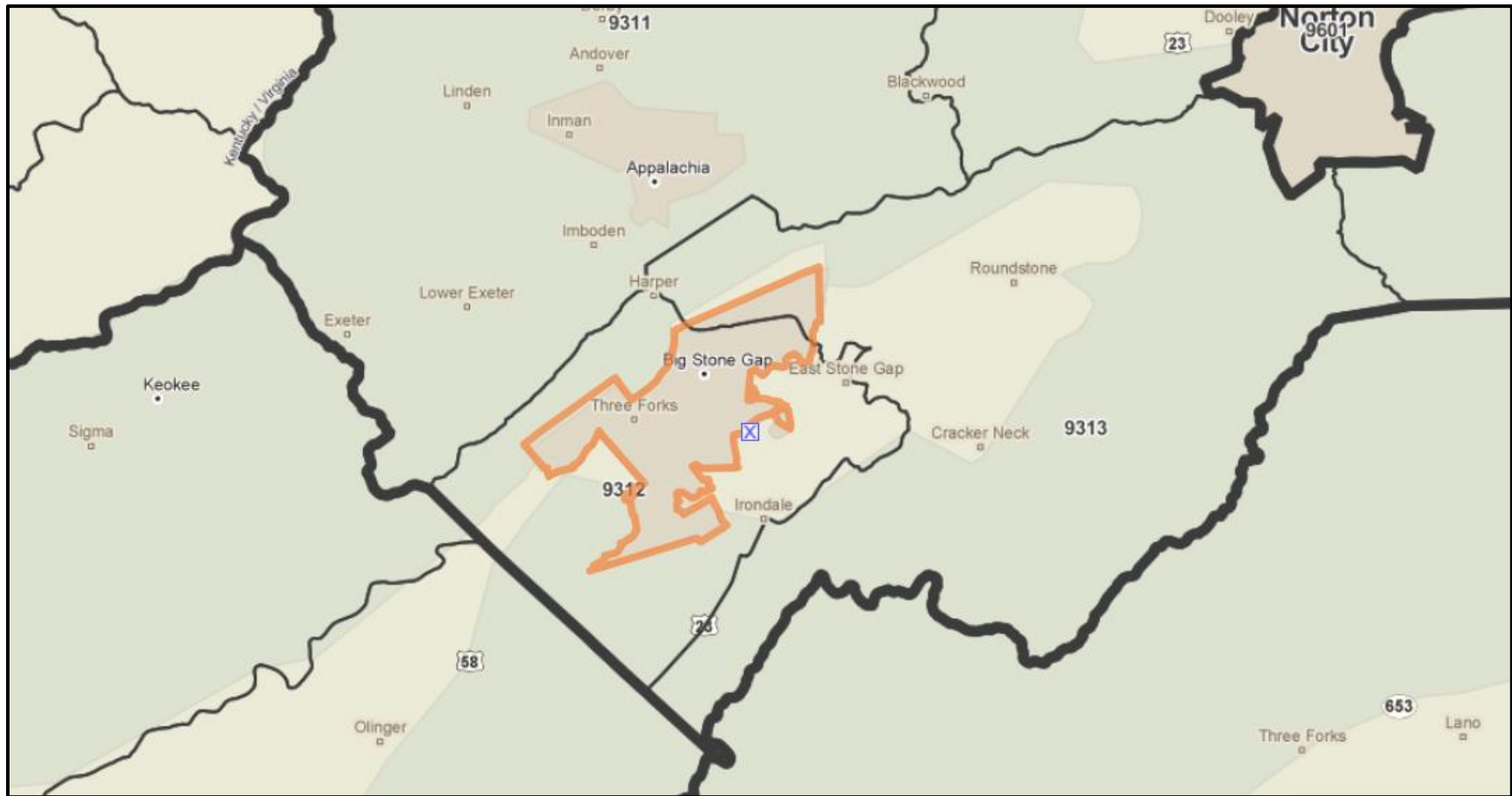


Source: PolicyMap

Town of Big Stone Gap

Big Stone Gap is primarily located within census tract **9312**, but part of the town is located in census tract **9313**.

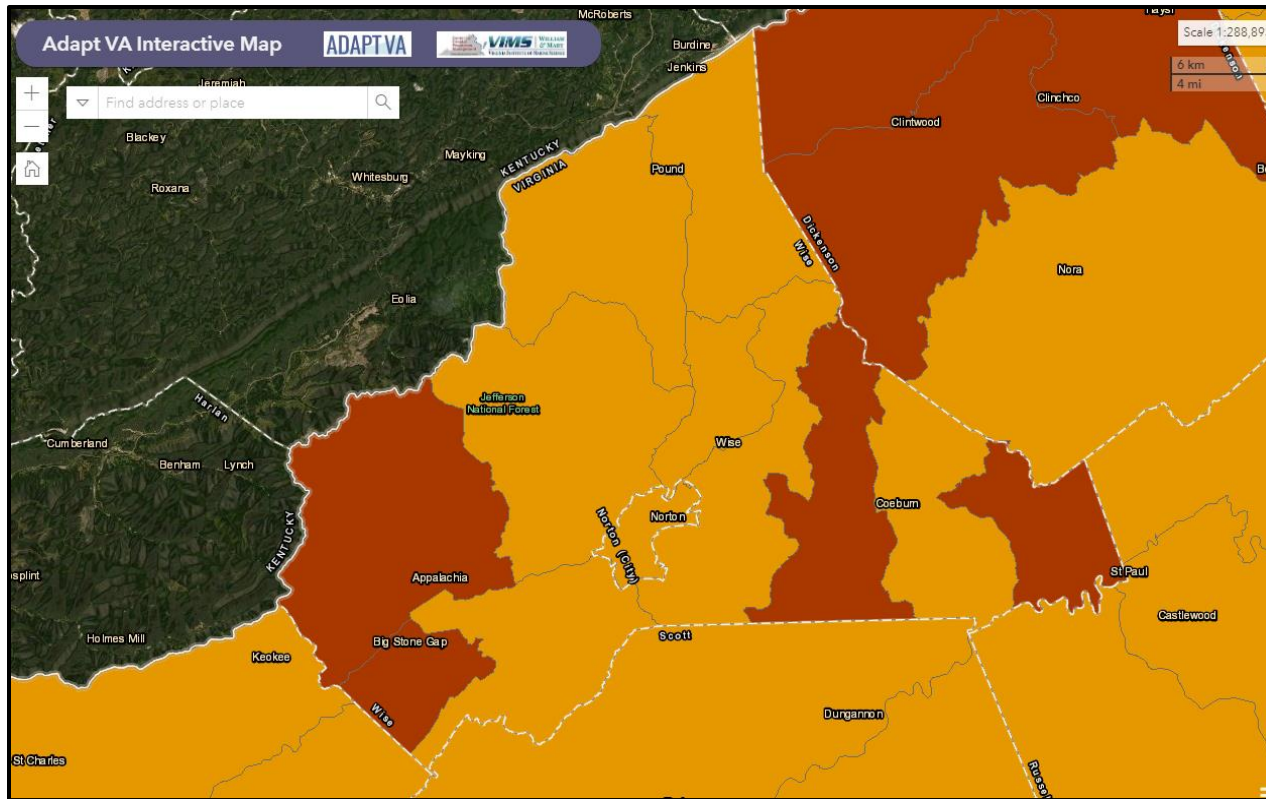
Map of Big Stone Gap, 2010 Census Tracts 9312 and 9313



Source: PolicyMap

Wise County Social Vulnerability Index Score Map

The average Social Vulnerability Index Score across all 2010 census tracts in Wise County is **0.75 (moderate)**.



Source: Adapt Virginia, Virginia Vulnerability Viewer, Social Vulnerability Index Score

Legend - Social Vulnerability Index Score

- Very Low Social Vulnerability (Less than -1.0)
- Low Social Vulnerability (-1.0 to 0.0)
- Moderate Social Vulnerability (0.0 to 1.0)
- High Social Vulnerability (1.0 to 1.5)
- Very High Social Vulnerability (More than 1.5)

Opportunity Zones

Wise County has four Opportunity Zones: census tracts **9309**, **9313**, **9314**, and **9317**. A portion of the Town of Big Stone Gap is located in the Opportunity Zone associated with census tract 9313.

Wise County Opportunity Zones, Census Tracts 9309, 9313, 9314, and 9317

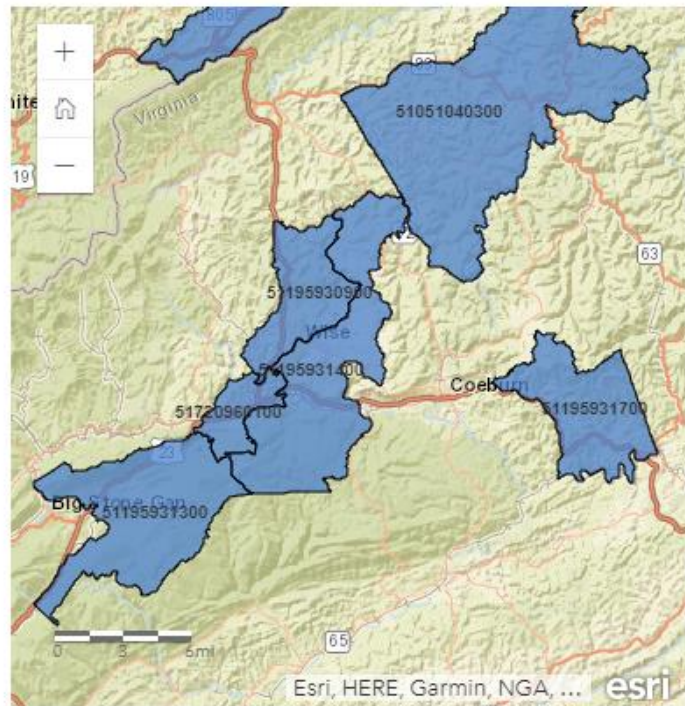
List of Wise County, Virginia Opportunity Zones & OZ Funds

Wise County, Virginia has 4 designated Opportunity Zones.

In total these Opportunity Zones have a population of approximately 14,000. That represents 38% of the county's total population of 38,000.

The **median household income** for Wise County Opportunity Zones ranges from approximately **\$32,000 to \$53,000**.

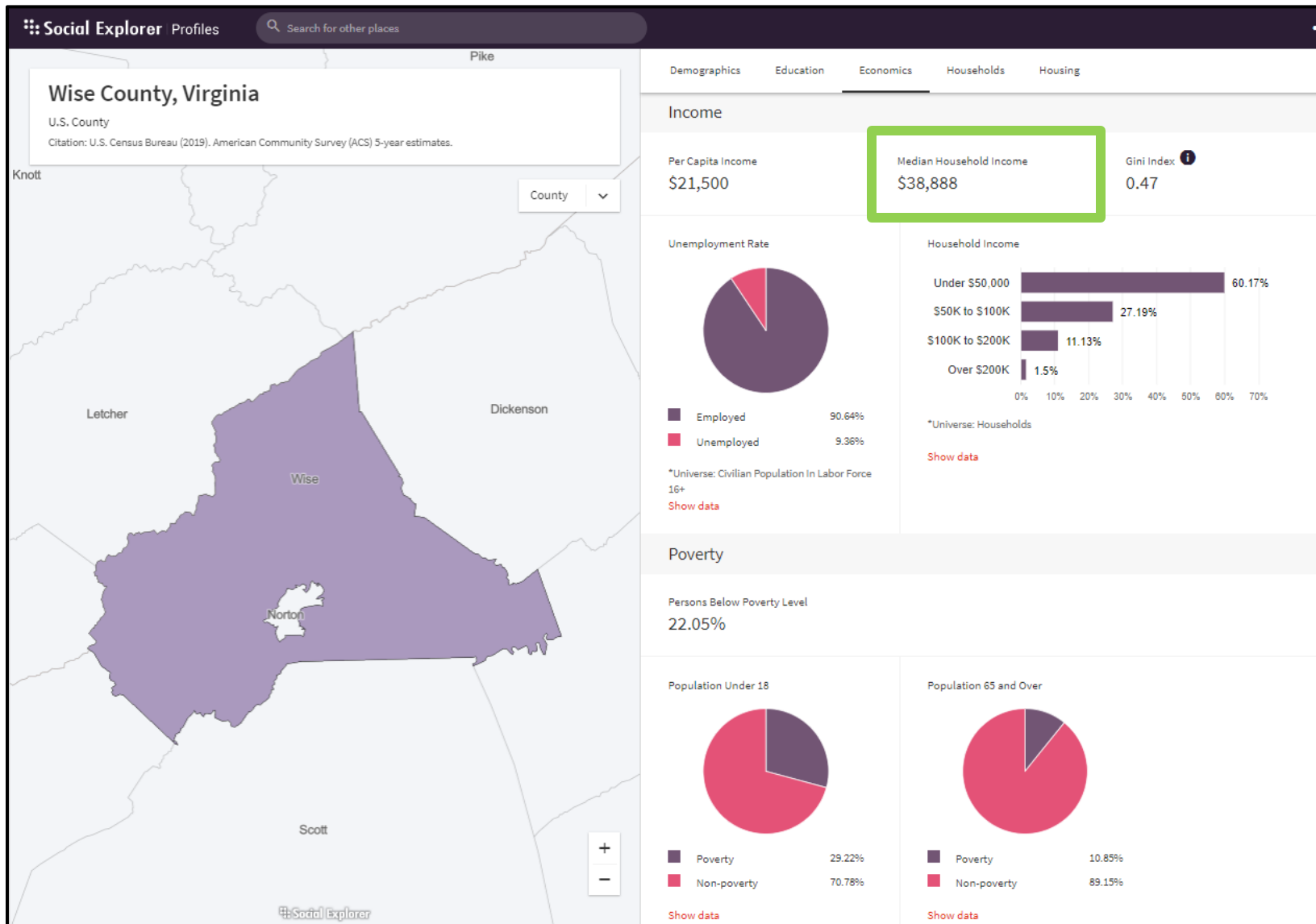
The adjacent map shows all Opportunity Zones in Wise County. Click on any Opportunity Zone for additional information.



[View larger map](#)

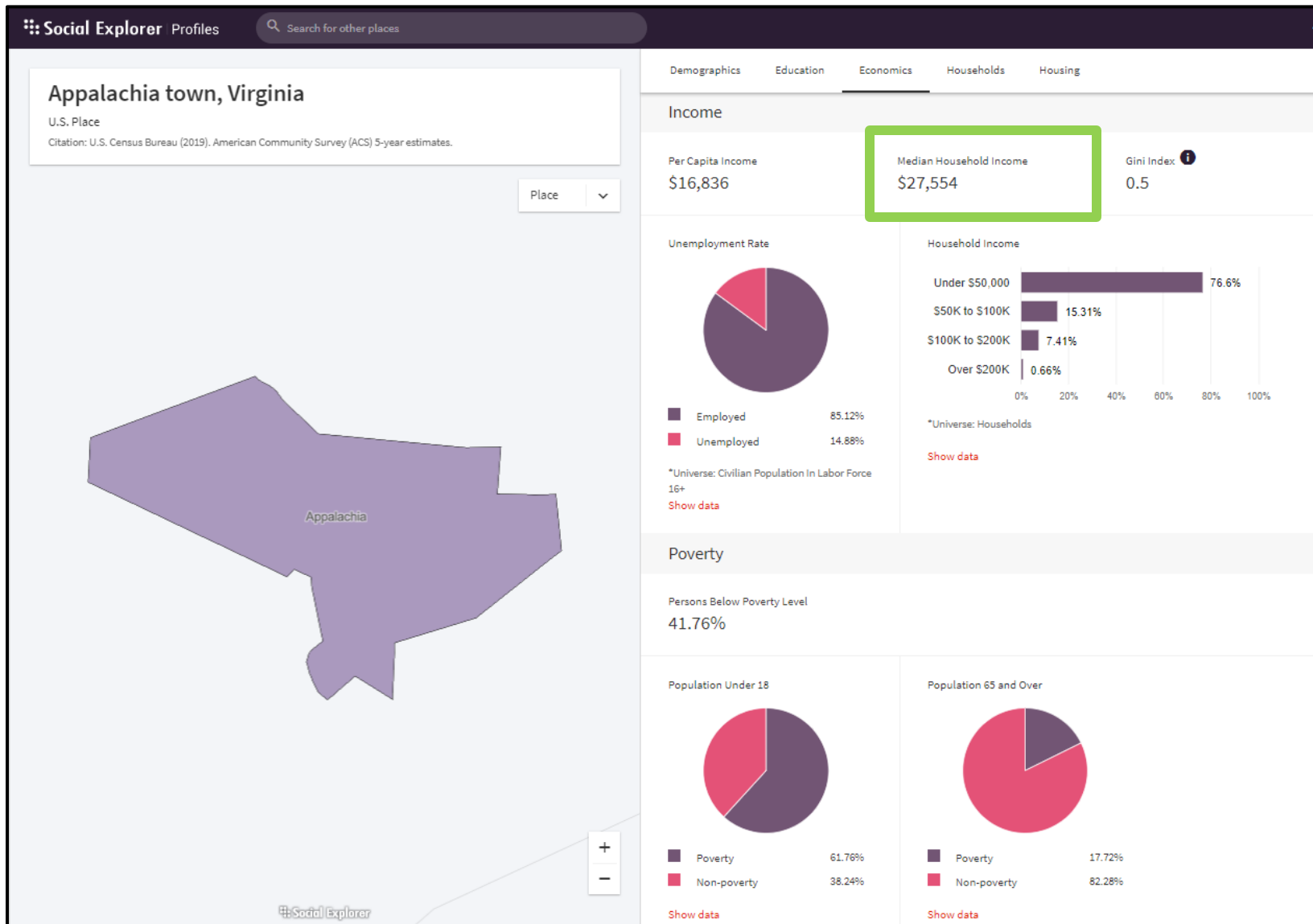
Source: OpportunityDb

Wise County Income Profile



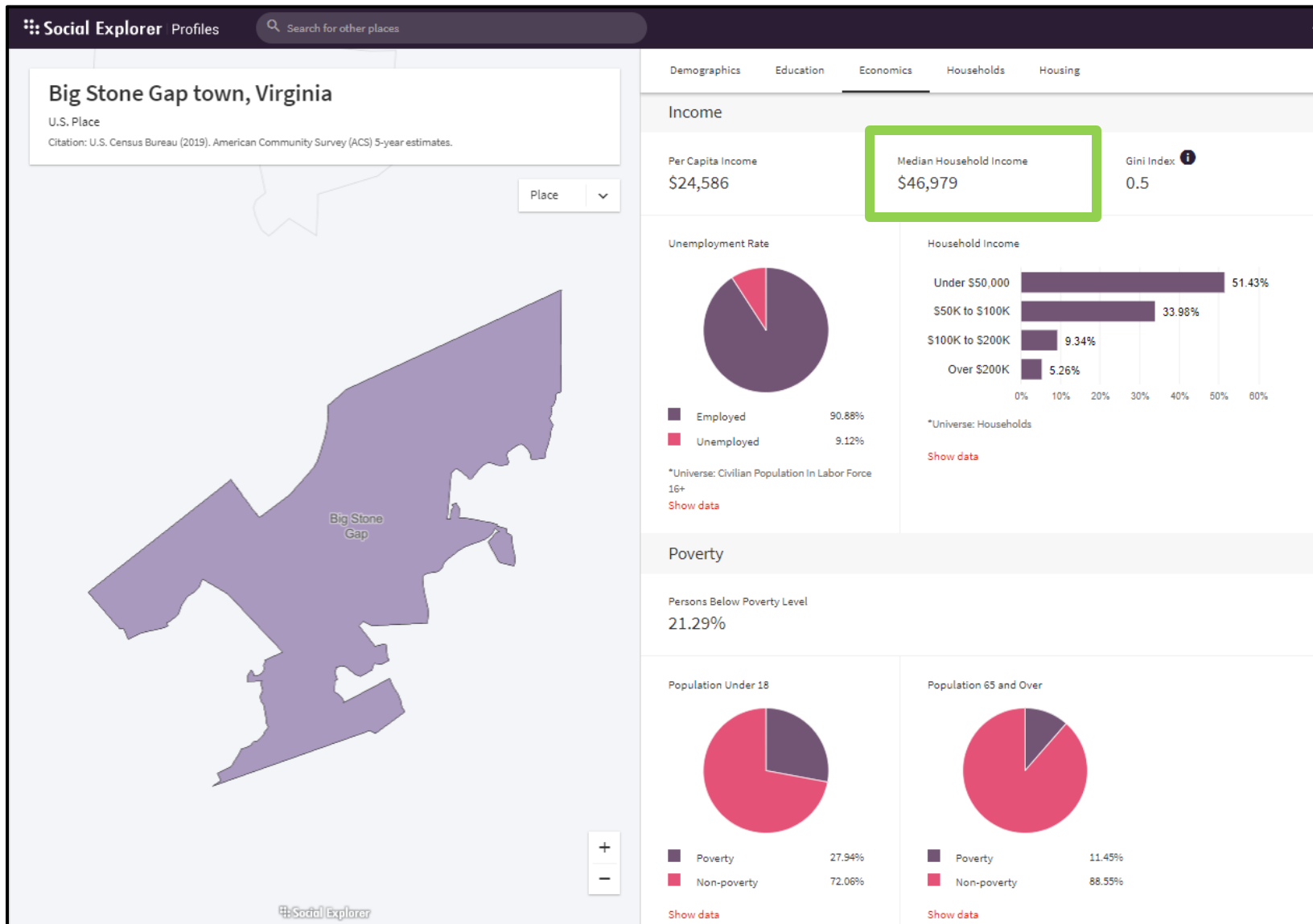
Source: Social Explorer; U.S. Census Bureau

Town of Appalachia Income Profile



Source: Social Explorer; U.S. Census Bureau

Town of Big Stone Gap Income Profile



Source: Social Explorer; U.S. Census Bureau

APPENDIX H: NEED FOR ASSISTANCE – CITY OF NORTON

City of Norton 2010 Census Tract Map

City of Norton Social Vulnerability Index Score Map

City of Norton Opportunity Zone

City of Norton Income Profile

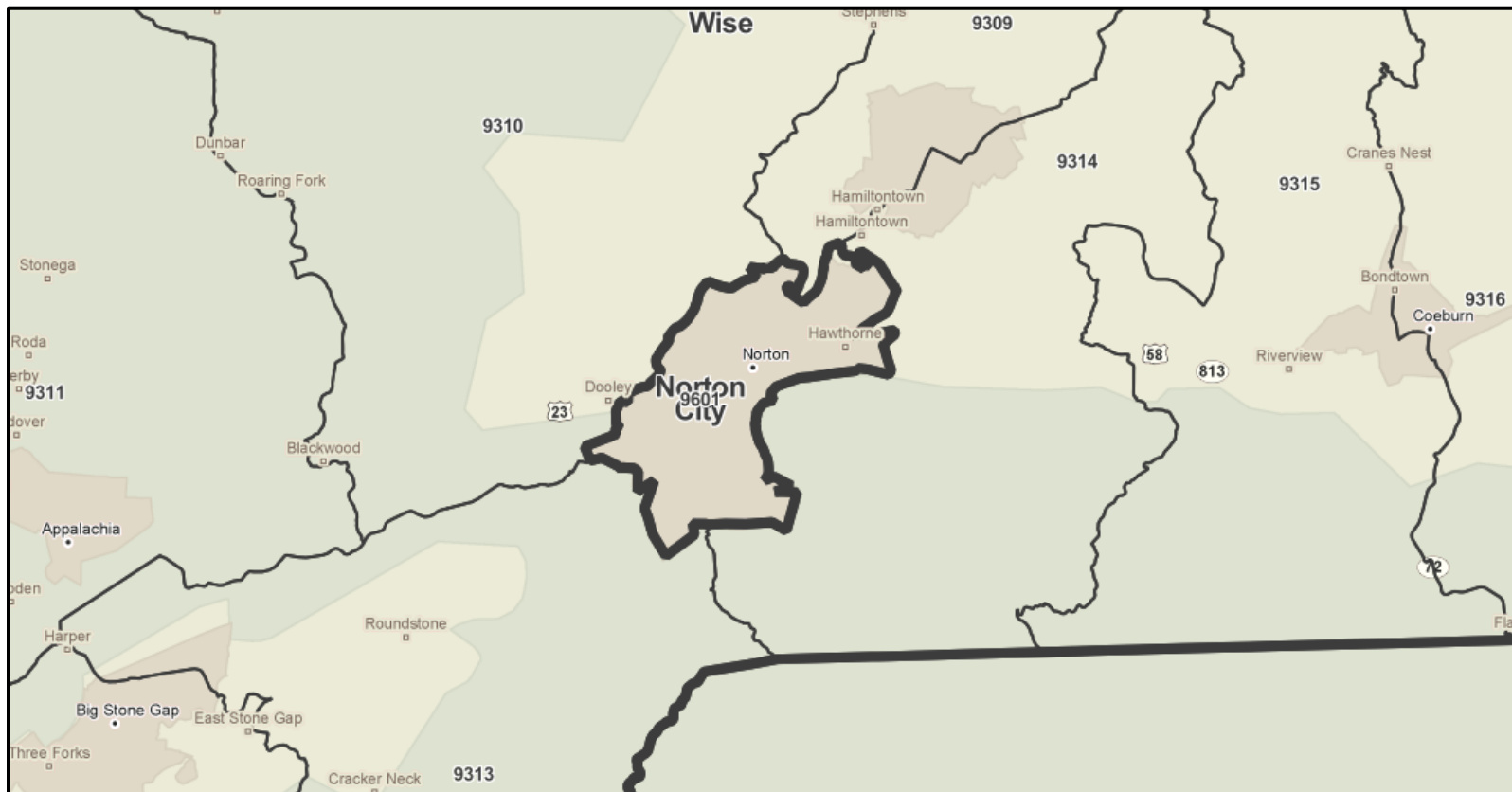
City of Norton

Census Tracts*

*NOTE: Adapt Virginia's Vulnerability Viewer currently uses 2010 census tracts to display Virginia's Social Vulnerability Index Scores.

The City of Norton makes up 2010 census tract 9601.

Map of City of Norton, 2010 Census Tract 9601



Source: PolicyMap

City of Norton Social Vulnerability Index Score Map

The City of Norton has a Social Vulnerability Index Score of **0.50 (moderate)**.



Source: Adapt Virginia, Virginia Vulnerability Viewer, Social Vulnerability Index Score

Legend - Social Vulnerability Index Score

- Very Low Social Vulnerability (Less than -1.0)
- Low Social Vulnerability (-1.0 to 0.0)
- Moderate Social Vulnerability (0.0 to 1.0)
- High Social Vulnerability (1.0 to 1.5)
- Very High Social Vulnerability (More than 1.5)

Opportunity Zones

The census tract comprising the City of Norton (9601) is a designated Opportunity Zone.

City of Norton Opportunity Zone, Census Tract 9601

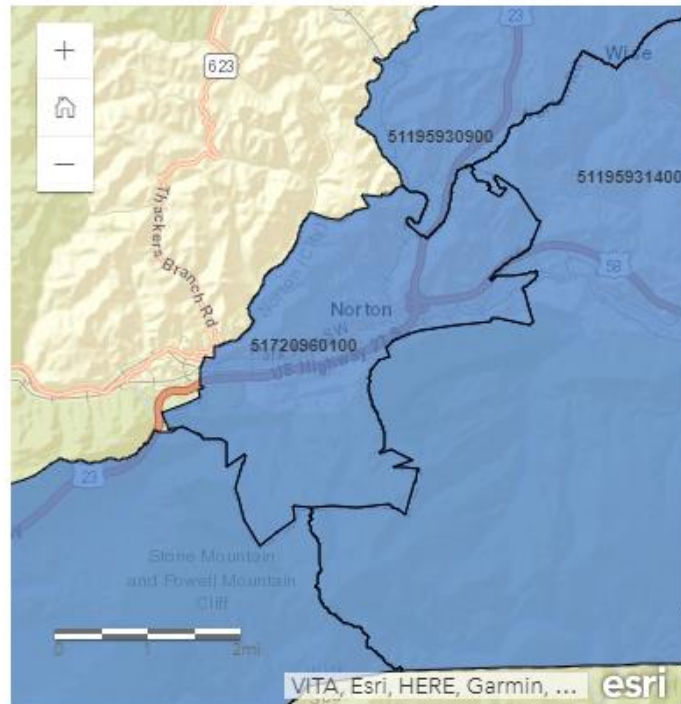
Census Tract 9601, Norton, Virginia

Census Tract 9601 is a **Low-Income Community** Opportunity Zone located in **Norton, Virginia**.

This **7.5 square mile** census tract has a population of approximately **4,000** and is the only Opportunity Zone in **Norton city**.

The adjacent map shows the location of this Opportunity Zone in Virginia.

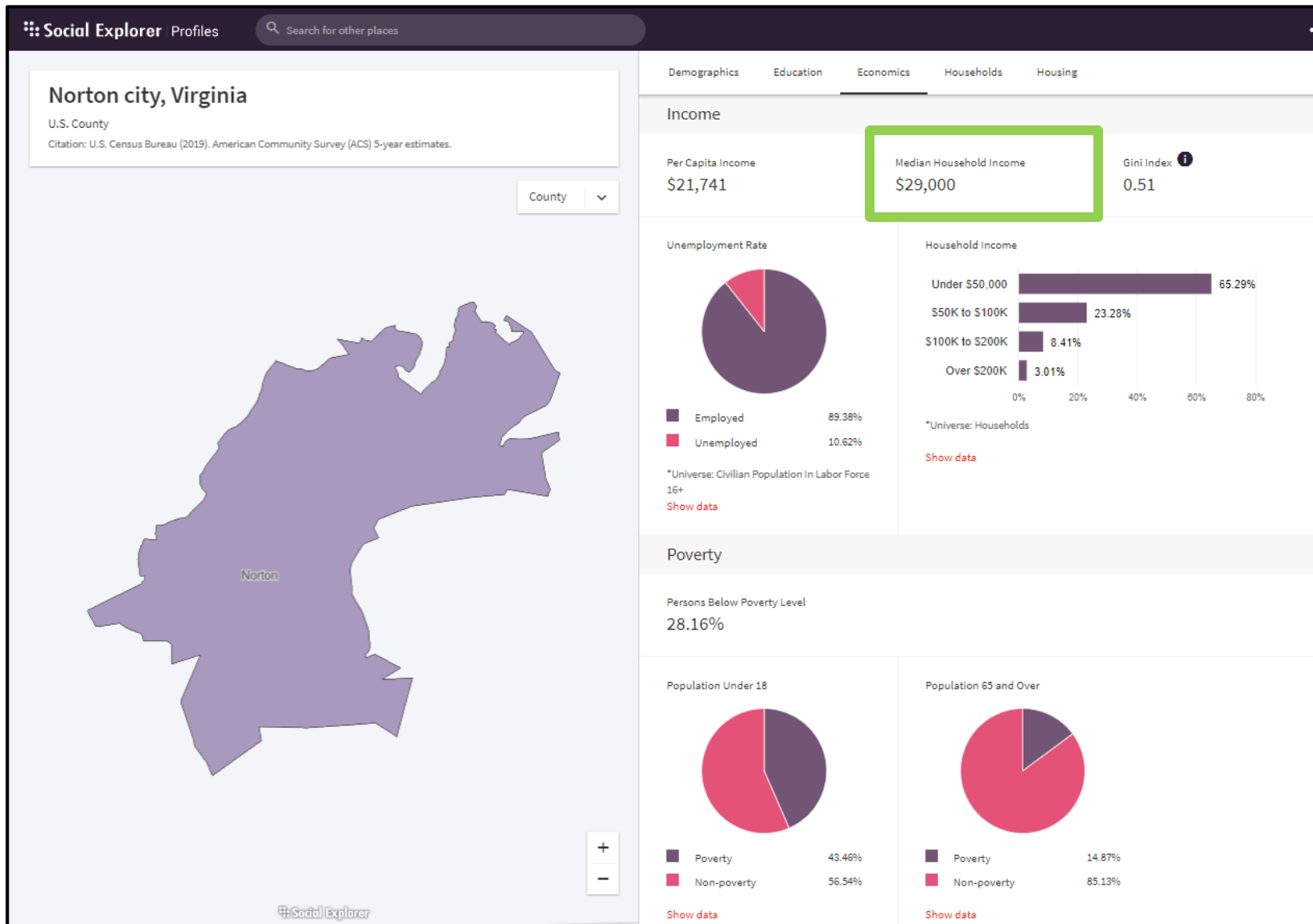
- [Opportunity Zone Demographics](#)
- [Virginia OZ Funds](#)
- [List of Similar Opportunity Zones](#)



[View larger map](#)

Source: *OpportunityDb*

City of Norton Income Profile



Source: Social Explorer; U.S. Census Bureau

APPENDIX I: BUDGET DETAILS

Phase I Budget and Work Plan

Phase I Budget and Work Plan by Task

Virginia Flood Resilience Initiative: LENOWISCO PDC

Phase I period of performance: Jan-Aug, 2022

Revenues:

Lenowisco PDC	\$ 150,000
Total revenues:	\$ 150,000

Costs:

	# months	base rate/month	base labor cost	taxes + fringe	sub-total
Cooper Center					
A. Small	0.63	\$ 9,600	\$ 6,000	\$ 1,662	\$ 7,662
E. Marshall	1.00	\$ 6,000	\$ 6,000	\$ 2,244	\$ 8,244
Data manager	0.50	\$ 2,833	\$ 1,417	\$ 85	\$ 1,502
Students, hourly			\$ 5,000	\$ 300	\$ 5,300
Public outreach including two workshops					\$ 7,000
Workshops on Grounds for project team + community stakeholders					
Travel + incidentals					\$ 1,250
Subtotal direct costs, Cooper Center					\$ 30,958
Engineering					
M. Shafiee-Jood	0.75	\$ 10,200	\$ 7,650	\$ 2,119	\$ 9,769
G. Louis	0.13	\$ 14,827	\$ 1,853	\$ 513	\$ 2,367
J. Goodall	0.13	\$ 19,192	\$ 2,399	\$ 665	\$ 3,063
Grad RA					\$ 16,500
Public outreach including two workshops					\$ -
Students, hourly					
Travel + incidentals					\$ 1,500
Subtotal direct costs, Engineering					\$ 33,199
Architecture					
E. Bassett	0.00	\$ 9,000	\$ -	\$ -	\$ -
Grad RA					\$ 10,000
Public outreach including two workshops					\$ 6,253
Students, hourly			\$ 10,000	\$ 600	\$ 10,600
Travel + incidentals					\$ 1,250
Subtotal direct costs, Architecture					\$ 28,103
Total UVA direct costs					\$ 92,260
Overhead, Cooper Center					\$ 19,039
Overhead, Engineering					\$ 20,418
Overhead, Planning					\$ 17,283
UVA total costs					\$ 149,000
Lenowisco PDC workshop local expenses					\$ 1,000
Total costs					\$ 150,000

Task #	Task	Description	Primary Lead	Support	Task Allotment	% of Total Budget
1	Conduct baseline flood risk analysis	Conduct a baseline flood risk analysis, identify areas that flood regularly and evaluate current infrastructure and vulnerability with the goal of determining which areas are vulnerable to flooding and likely flooding mechanisms.	Engineering		29,451	20%
2	Evaluate existing "hard" resources	Identify and evaluate the status of existing data, plans, policies, and resources that are necessary to inform the development of a successful resilience plan. Identify gaps in information.	Engineering lead on flood-related and geographic data; Planning lead on land use, planning policy. Coordination will be needed for certain topics such as equity, engagement, etc.	Cooper Center	43,000	29%
3	Evaluate existing "soft" capacities	Evaluate "soft" capacities in each community. Assess staff training, resource capacity, certification (Certified Floodplain Manager), and succession planning needs.	Cooper Center	Planning	15,921	11%
4	Stakeholder Mapping	Examine current channels of community engagement; conduct stakeholder mapping exercises and evaluate how existing channels of engagement can be improved and expanded to ensure diverse perspectives are included and equity is addressed throughout the planning process.	Planning	Cooper Center	16,998	11%
5	Stakeholder Interviews	Interview stakeholders in order to gain a better understanding of the cascading effect of flood events and to identify equitable ways of ensuring benchmarking reflects diverse interests.	Planning	Cooper Center	14,631	10%
6	Develop Roadmap	Develop a roadmap and timeline for the preparation of future VCFPF planning, studies, and projects grant applications.	Cooper Center	Engineering	10,999	7%
7	Project Management	Project Management, coordination, primary liaison with localities and PDC	Cooper Center		18,000	12%
8	Locality Outreach		PDC		1,000	1%
					150,000	100%



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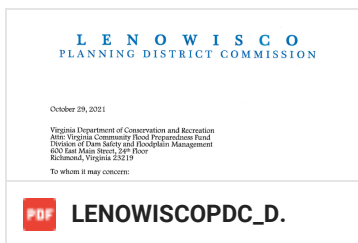
More

Duane

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Cell: (276) 275-6037

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