



MITIGATION

6.0 Mitigation

6.1 2020 Update - Summary of Changes

The project management team reviewed this section of the plan and determined that the entire section would be rewritten to include more specific mitigation actions at the regional and jurisdictional level.

6.2 Introduction

The Mitigation Strategy provides the jurisdictions within the CVPDC with the goals, objectives, and specific actions which will help the communities become less vulnerable to natural and man-made hazards. The Strategy is meant to be comprehensive with both regional and location-specific actions while at the same time being feasible based on the capabilities of the jurisdictions.

The mitigation planning process involved conducting a HIRA to identify potential impacts and rank the hazards. Although many of the impacts were understood before the process, the HIRA helped identify the magnitude of the issue and associated impacts and can also be used to justify resource expenditures. The process also included working with the Technical Advisory Committee to identify the mitigation goals, objectives, and actions based on the HIRA results and capabilities of the jurisdictions. This process led to the development of the mitigation strategy.

The Mitigation Strategy consists of the following four subsections:

- Mitigation Strategy Types.
- Regional Mitigation Goals, Objectives, and Actions.
- Jurisdiction-Specific Mitigation Actions.
- Mitigation Analysis Techniques.

6.3 Mitigation Strategy Types

Hazard mitigation is most effective when several approaches are used in conjunction with each other to meet a community's goals and objectives. To help categorize the different approaches, six mitigation approaches have been identified.



6.3.1 Information and Outreach (I)

Information and Outreach activities are those activities executed to inform and advise residents, business owners, organizations, elected officials, future property owners, and visitors about potential hazards, preparedness, and property assessment practices to mitigate, or limit, impact, inform on preparedness resources, and determine the availability of emergency aid and community resources in the event of a hazard emergency. In many instances, local emergency departments and other organizations are already executing elements of some of the Information and Outreach measures. However, the mitigation strategies provide a mechanism to coordinate messaging on a regional level, expand partnerships, and maximize staff, funding, and hazard protection impact. Information and Outreach measures include:

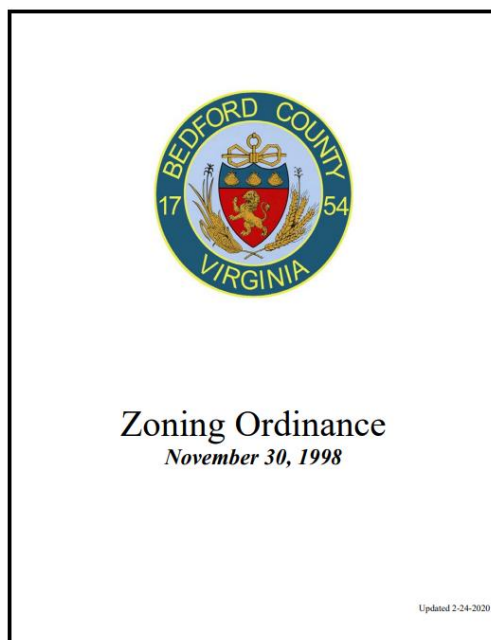
- Training programs;
- Education and outreach campaigns (e.g. social media, websites, and feature stories);
- Insurance program information;
- Emergency facility and flood designation maps; and
- Information materials, workshops, and event materials.



6.3.2 Prevention Capacity (C)

Capacity measures are those hazard impact preventative agency-lead policy and program activities, administered through approved activities approved or sanctioned by a local governmental body, organization, or agency policy board. Capacity activities are those voluntary or regulatory actions that inform land use development, building and infrastructure construction, maintenance programs and, often, influence funding through capital improvement plans and other funding structures. Capacity measures are primarily those activities that can be integrated into an existing program, department, or staff initiative. This type of mitigation is often very cost effective with a high benefit to cost ratio and longer lifespan. Once these strategies are incorporated into forward looking plans and ordinances, they become part of the community's day to day operations. Capacity measures include:

- Planning and zoning,
- Development regulations,
- Stormwater Plans, and
- Drainage Maintenance





6.3.3 Property Protection (P)

Property Protection defines those mitigation activities used to fortify structures to better withstand hazards or practices that reduce or eliminate impacts through structure or infrastructure relocation, removal, or retrofits. Building or structure fortification can range from simple, low-cost building adjustments to high cost, extensive structural or land grading measures, or acquisition and relocation that can require a corresponding policy (Capacity) programming. Property protection strategies examples include:

- Acquisition programs,
- Dry and wet flood proofing,
- Backup generators, and
- Mobile home tie downs.



Stormwater Interceptor
Replacement



6.3.4 Structure (S)

Structural strategies are those construction measures undertaken to manage hazard impacts that have the capacity to significantly impact populations or property. These strategies include extensive modification of existing structures, land, or infrastructure or construction of new structures. Projects are usually of a size and scale that require design, engineering, permitting, complex funding structure, and long-term management and maintenance requirements by a locality, state and/or federal agency, organization, or business. Examples include:

- Dam stabilization,
- Reservoir or retention pond construction,
- Storm sewer upgrades, and
- Berm construction.



6.3.5 Natural System Resiliency (R)

Natural system resiliency initiatives are those that maintain, restore, or preserve natural system function to reduce the impact of natural hazards on life and property. Activities in this category include:

- Streambank and slope stabilization,
- Fire resistant landscape practices,
- Dead or diseased tree removal, and
- Wetland restoration.



6.4 Regional Mitigation Goals, Objectives, and Actions

The CVPDC set up working group meetings with the Technical Advisory Committee to identify regional mitigation goals, objectives, and actions. A goal for each type of mitigation strategy was agreed upon and multiple objectives supporting that goal were developed. Specific, regional actions were then identified based on the regional needs and capabilities. Understanding that every jurisdiction in the CVPDC is different, additional jurisdiction-specific mitigation actions were developed and are presented in Jurisdiction-Specific Mitigation Actions Section. The following section provides information on the regional goals, objectives, and actions.



6.4.1 Information & Outreach (I) Goal: Increase hazard awareness and preparedness activity participation by area individuals, property owners, and businesses.

(I) Objective 1: Develop diverse and regionally-consistent hazard preparedness information and actions for public, businesses, and organizations to educate, lessen impact and increase safety during and after natural hazards.

1. Provide information and encourage installation of hazard preparation kit/materials (NWS Storm Ready) at critical facilities (e.g. schools, residential facilities), homes, organizations, and businesses.
2. Provide information to businesses on tools to develop emergency action plans.
3. Develop a preparedness and mitigation action campaign, including social media, radio, written and other outreach formats to be distributed throughout the region. Ensure campaign includes development of materials to serve persons with special needs (e.g. sensory, language barriers).
4. Provide information on and promote safe sheltering in place practices.
5. Support preparedness training and readiness evaluations to organizations that serve special needs. Include coordination with agencies (e.g. Center for Independent Living) to encourage persons with special needs to register with local emergency management and assist in disaster preparedness materials to meet sensory or communication needs.

(I) Objective 2: Provide property evaluation and maintenance best practices to minimize impact from drought, high temperatures, wind, and storms.

1. Develop a property review and maintenance evaluation tool. Include information on septic system maintenance, property clean up strategies and recommended practices, tree trimming and removal recommendations, low/wet area evaluation, flammable material/chemical storage, and where to learn more.
2. In partnership with Virginia Cooperative Extension, Soil & Water Conservation Districts, provide information on water conservation practices, shade tree tips, and draught tolerant and native plants.
3. Provide information, especially to residents and businesses in forested areas, on actions to minimize property loss and vulnerability from forest fires.
4. Provide property evaluation and implementation practices, such as tree removal and trimming recommendations, to lessen property damage during high winds.
5. Make available information on well, springs, and other water resource preservation practices, funding, and technical assistance programs.

(I) Objective 3: Provide information to lessen impact and support timely recovery from flood, dam failure, and stormwater hazard impacts.

1. Utilize existing FEMA, VDEM, National Weather Service (NWS) and National Flood Insurance Program (NFIP) materials to increase awareness of and participation in flood insurance.
2. Partner with area insurance companies, realtors, lenders, and homeowner's associations to share NFIP insurance information to citizens, property owners.
3. Hold property owner workshops to provide stormwater best management practices (e.g. raingardens, French drains, and rain barrels) information.
4. Establish or update local flood and high hazard dam failure studies or maps that provide easily identifiable and understandable property identification for the public to evaluate area vulnerable properties and areas.
5. Establish or update a method for the public to report on areas with recurring stormwater, flooding or standing water problems.
6. Provide regular notices to property owners of structures in floodplain or stormwater impacted areas on insurance and property protection information.
7. Install high water marks, high water crossing roadway signage or messaging campaigns.
8. Expand education on best practices to protect wells from heavy rain (e.g. sediment, turbidity) and information on public testing and assistance programs.

(I) Objective 4: Develop or provide tools to lessen fire hazard impacts.

1. Provide information, through workshops or education campaign, actions (e.g. Fire Wise program) to minimize property loss and vulnerability from forest fires; target forested and isolated residents, organizations, businesses, and public spaces (e.g. campgrounds).
2. Provide information to residents and businesses on best practices to secure flammable materials and chemicals.
3. Provide education to property owners on essential devices (e.g. Smoke detectors) to have in every home and how to properly maintain and use devices.
4. Evaluate or develop evacuation plans, and where necessary provide necessary improvements, to ensure safe evacuation of isolated communities.



6.4.2 Prevention Capacity (C) Goal: Through governmental operations, business and private sector partnerships, advance planning initiatives, voluntary and regulatory programs (e.g. code enforcement), and maintenance practices to lessen hazard impacts.

(C) Objective 1: Encourage agency and department coordination and participation in national programs to advance mitigation measure implementation.

1. Introduce existing rating and certification programs (e.g. Community Rating System/CRS) and encourage locality participation.
2. Encourage participation in national rating, insurance (e.g. NFIP), or certification programs (e.g. Community Rating System) by area localities.
3. Establish and maintain mitigation activity review and evaluation schedule with locality and organizational stakeholders. Add additional strategies as necessary and initiate annual workshop on mitigation funding and program practices

4. Provide training for and, where necessary, purchase tools for Building Officials, planning, public works, water resources staff that support mitigation program capacity.

(C) Objective 2: Lessen hazard vulnerability to residents, property, and natural resources through planning, zoning, ordinances, data development, land use regulations, and other programmatic activities.

1. Encourage coordination and incorporation of hazard mitigation practices within local (e.g. Comprehensive Plans) and regional planning documents & initiatives.
2. Utilize existing or expand data capacity to assist in mitigation program analysis and project implementation.
3. Evaluate development standards and encourage practices that minimize stormwater impacts.
4. Encourage water supply and ground water protection through zoning tools to inform development standards.
5. Support practices (e.g. tax incentives, easement program) that preserve land in environmentally sensitive areas.
6. Encourage development of local or regional Resiliency Plans.
7. Continue to update identification and mapping of critical facilities to support response and access services during and after disasters.
8. Develop, where appropriate, Emergency Action Plans, including preparedness and evacuation routes, for sensitive residential facilities (e.g. assisted living facilities), industrial parks, and isolated communities.
9. Evaluate and seek opportunity to execute regional partnerships to facilitate efficient emergency communication and response capabilities between the region's emergency response departments.

(C) Objective 3: Support and execute programs and projects to lessen impact from flood, dam failure, and stormwater hazards.

1. Initiate hydrologic and hydraulic studies, site evaluations, area stormwater management plans to reduce or eliminate flooding and high hazard dam failure problems.
2. Develop routine stormwater system evaluation and maintenance schedule and funding program.
3. Utilize or establish programs (e.g. relocation, buyout, elevation) to minimize the impact of flooding, high hazard dam failure, or habitual standing water.
4. Support, partner, or execute programs that educate or incentivize private property owners to employ stormwater best management practices (e.g. impervious pavement) on their property.
5. Use land use and zoning practices within flood-zone areas to limit development and provide location for public open spaces.
6. Coordinate with public works, transportation, planning, water resources, building departments to review and incorporate practices that minimize stormwater impacts (e.g. improved ditching, install larger culverts, increase drainage piping, and grassed waterways).

(C) Objective 4: Support and execute programs and projects to lessen impact from fire hazards.

1. Encourage planning and implementation projects that evaluate properties and provides fire protection and suppression recommendations.
2. Encourage building codes and zoning that support wildfire mitigation and fire wise practices with woodland and rural areas.

3. Encourage building codes and maintenance regulations that support fire property protection within urban and suburban areas.
4. Encourage preplanning and site visits based on Tier II reporting information.
5. Support initiatives that allow for access to and integration of technology tools in mitigation and emergency response activities.

(C) Objective 5: Support and execute programs and projects to lessen impact from extreme temperatures, and drought hazards.

1. Encourage planning initiatives or implementation projects that improve water source data and identifies or provides increased storage capacity.
2. Establish and execute water conservation practices to protect water resources.

(C) Objective 6: Support and execute programs and projects to lessen impact from severe weather and high wind hazards.

1. Support street tree evaluation, trim, or replacement as integral to public works, street, and infrastructure projects to reduce power outages and access delays.
2. In partnership with public works, VDOT, and emergency services, execute route evaluation, maintenance and clearing practices that support access to critical facilities.
3. Support and encourage projects that provide for underground utilities.
4. Develop and enhance locality debris management plans.



6.4.3 Property Protection Goal: Support property and infrastructure fortification programs and projects to lessen hazard impacts to lives, property, and infrastructure.

(P) Objective 1: Support fortification measures that increase hazard resiliency of property, public infrastructure, critical facilities, and public spaces.

1. Evaluate or execute retrofit measures necessary to reduce service disruption and facility damage.
2. Evaluate the need for, and where necessary, purchase, backup or secondary generators, or other backup system devices (e.g. Quick Connect) to support continued critical facility use.
3. Execute vulnerability analysis/security plans, and execute protection measures to harden critical facilities, public spaces, essential facility data, and other essential resources to reduce vulnerability from cyber and technological hazards.

(P) Objective 2: Support fortification measures to lessen impact to residents, property, and infrastructure from flooding (riverine, flash floods) and dam failure hazards.

1. Initiate studies or execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure hazard to lives, property and financial impacts to families and communities.
2. Utilize property retrofitting measures to protect structures from flood damage (e.g. installing sewer backflow valves, berms, wet-proofing, sump pumps, energy system elevation).
3. Support or offer incentives (e.g. tax or program rebates) to property owners that install flood-proofing retrofits, structure elevation or relocation.
4. Install flood elevation markers in recurring flood-prone areas in the region to remind and encourage property and business owners to purchase flood insurance.

5. Conduct routine cleaning and maintenance of stormwater infrastructure.
6. Coordinate with transportation and site improvement projects to incorporate practices that minimize stormwater impacts (e.g. improved ditching, install larger culverts, increase drainage piping).
7. Support the assessment, purchase and use of stormwater performance equipment to guide stormwater/flooding evaluation and implementation activities.
8. Evaluate and implement stormwater control practices (e.g. stabilization, channelization) to divert/control stormwater impacts.

(P) Objective 3: Support fortification measures to lessen impact to residents, property, and infrastructure from high wind hazards.

1. Establish a regular street tree evaluation, trim and replacement schedule along powerlines and primary commuter routes to reduce power outages, reduce access delays, and provide community cooling.
2. Where appropriate, encourage or execute co-location or burial of electrical, phone and cable lines.

(P) Objective 4: Support fortification measures to lessen impact to residents, property and infrastructure from fire, high temperatures, geophysical, and extreme drought hazards.

1. Increase awareness and support utilization of fire-resistant building materials and development practices.
2. Seek funding and technical assistance programs to assist in establishing sustainable property evaluation and protection actions.
3. Encourage collaboration with agency partners for prescribed burning in vegetative and high-risk areas.
4. Evaluate the need for dry hydrant location opportunities; where needed install.
5. Initiate water supply studies, execute water facility improvements (e.g. looping systems), or install source features, especially in areas not served by public utilities.
6. Seek opportunities to install primary or secondary water sources at farms, critical facilities, and other facilities to ensure access during drought, fire, or other emergency situations.
7. Seek opportunities to install primary or secondary cooling devices, water storage, and other readiness measures at critical facilities.
8. Establish a regular street tree evaluation, trim and replacement schedule to support community cooling.

(P) Objective 5: Evaluate and seek opportunities to enhance or install emergency communication systems.

1. Continue to enhance emergency warning systems and encourage residents and businesses to participate in local emergency warning programs.
2. Evaluate opportunities, and where appropriate, install audible warning systems.
3. Seek opportunity to execute regional Public Safety Answering Point (PSAP) equipment/generator(s) to support communication and response capabilities between the region's emergency response departments.



6.4.4 Structural Projects (S) Goal: Execute measures that significantly lessen the impact of natural hazard impact to lives, communities, property, and infrastructure in the region.

(S) Objective 1: Study, design and execute measures to *preserve and expand existing structures or construct new features that lessen the impact of flooding and dam failure* on lives, property, communities, critical facilities, and infrastructure.

1. Evaluate, maintain, and execute necessary improvements to public dams.
2. Evaluate, maintain, and execute necessary stormwater system, water system, or sanitary sewer system protection or upgrades.
3. Evaluate, design, and execute structural measures that reduce the impact of flooding, high hazard dam failure, and stormwater.
4. Implement flood protection measures, including green infrastructure practices, in coordination with infrastructure upgrade projects.

(S) Objective 2: Advance transportation network connectivity and mode options to support emergency access and evacuation and corridor options to minimize economic impact to communities and businesses.

1. Evaluate, design and repair bridges, culverts, and other roadway features to support safe access and evacuation and reduce flooding and high hazard dam failure impacts to roadway infrastructure.
2. Evaluate, and where appropriate, install transportation facilities or mode improvements to accommodate emergency access or evacuation options.

(S) Objective 3: Study, design and/or construct measures that lessen *drought, high temperatures, and fire hazard* impacts on residents, property, critical facilities, businesses, working landscapes.

1. Evaluate and execute water distribution, storage, or other system facility improvements.
2. Evaluate the water source storage needs and develop, where needed storage, in isolated woodland and rural areas.
3. Incorporate trees and other land use practices that will support cooling measures within infrastructure improvement projects.
4. Evaluate, and where needed install, dry hydrant locations in the region's woodland and rural areas.
5. Seek opportunities for water shuttle or tender operation resource expansion.



6.4.5 Natural System Resiliency (R) Goal: Preserve the function and resiliency of the region's natural resources and sensitive landscapes.

(R) Objective 1: Protect the function of area rivers, riverbanks, water resources, and wetlands.

1. Evaluate and implement stream restoration, through green infrastructure, streambank stabilization, or other appropriate practice, to restore or protect a streams natural function and lessen flood impact to utilities, infrastructure, transportation, property, neighborhoods, and sensitive natural resources.
2. Evaluate, support, and establish programs that preserve open space and natural resources.
3. Seek opportunities to coordinate with existing resource protection programs to target studies or implement protection practices in sensitive resource areas.
4. Pursue conservation grants and programs that protect natural areas, especially those in and near flood-prone areas.

(R) Objective 2: Preserve working landscapes, open spaces, and steep slopes to minimize natural hazard impacts.

1. Support programs (e.g. loan, grants) that assist farmers, organizations, localities maintain open spaces and/or working landscapes.
2. Minimize development in large open space tracts, sensitive landscapes, or steep slopes.

(R) Objective 3: Implement measures to preserve area forest lands.

1. Partner with Forest Service, local officials, and other organizations to execute regular evaluation and necessary mitigation actions (e.g. controlled burning, debris removal) to reduce wildfire impacts to forested areas, property, and businesses.
2. Evaluate or execute fire zone practices at public parks or other public spaces.

The CVPDC has created a list of its own action items which will help the jurisdictions reach their own mitigation goals and objectives. These actions are provided in Table 6-1.

6.5 Mitigation Analysis Techniques

During the jurisdiction-specific mitigation meetings, each community prioritized the mitigation actions by ability and ease to implement the action, political will, benefits versus the cost, community need, and availability of various funding sources. The STAPLEE method described below was also utilized during prioritization.

The STAPLEE prioritization method considers seven criteria:

Criteria	Description
Social	Based on the idea that community consensus is a necessary precondition for successful implementation of mitigation measures. This also means that measures should not affect adversely a particular segment of the population or a particular neighborhood, or adversely impact local cultural values or resources.
Technical	Address the technical feasibility of the proposed action in terms of effectiveness, secondary impacts, and the technical capabilities of the community to implement and sustain this action.
Administrative	Address the administrative capabilities require to implement each mitigation action. For example, does the jurisdiction have the necessary organization, staff, and funding sources to implement and sustain the mitigation process?
Political	Considers the need for political support for migration actions. This means that all stakeholders in the political process, especially political organizations and institutions both inside and outside the community, should support the measure.
Legal	Used to determine the appropriate legal authority necessary to implement each mitigation action and whether such an authority can be delegated. In addition, the migration action is examined from the standpoint of current statutes, codes, ordinances, and other regulations, as well as the possible legal ramifications of the action's implementation.
Economic	Address the cost-effectiveness of the proposed action and its economic impact on the community. It is only reasonable to expect that the benefits of implementation will exceed the costs incurred. Economic considerations also consider the economic impact of the community's future development.
Environment	Although most mitigation actions are beneficial for the environment, some actions may have adverse impacts, which must be considered and addressed.



6.6 Jurisdiction-Specific Mitigation Actions

The CVPDC setup jurisdiction-specific meetings after the HIRA was completed to identify mitigation actions for each City, Town, and County included in the mitigation plan. Each mitigation action is linked to one of the regional mitigation goals and objectives. The tables below provide a description of the mitigation action, the hazard(s) it addresses, the priority level, lead agency or department, supporting agencies or departments, potential funding sources, coordination opportunities, and a time frame for implementation. The priority level was informed by the mitigation analysis described in the next section.



Mitigation

Table 6-1 CVPDC Mitigation Actions

Agency: Central Virginia Planning District Commission (CVPDC)									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
									Ongoing, 1-3, 2-4, 3-5, 4+
Information & Outreach	I 1.3	Develop hazard preparedness outreach/education best practices, resources, and program activity within the CVPDC website.	All Hazards	High	Communication; Community Development	State, FEMA	VDEM		1-3
Information & Outreach	I 1.3, I 3.1, I 3.4	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within CVPDC website.	Flood, Dam Failure	High	Communication; Community Development	State, FEMA	VDEM		1-3
Information & Outreach, Property Protection	I 1.1, P 5.1	Develop public hazard communication campaign with emphasis on increasing number of residents joining area public information systems.	All Hazards	High	Communication; Community Development	State, FEMA	VDEM	Regional Radio Board	1-3
Information & Outreach	I 1 (All), I 2.2, I 3.8	Establish regular hazard mitigation feature, where best practices for readiness, safe sheltering, public announcements, are incorporated within agency newsletter, social media feeds, and general scheduled agency outreach. Include property maintenance, business best practices - features for preparedness.	All Hazards	High	Communication; Community Development	State, FEMA	VDEM		1-3
Capacity	C 2.1, C 2.4, C 2.5	Ensure the regional Hazard Mitigation Plan and mitigation planning are included as integral components of all regional planning initiatives including transportation, mobility, watershed, community development, emergency, and CEDS agency programs.	All Hazards	High	Community Development, Transportation	VDOT, VDEM, DRPT, DEQ, EDA	CVPDC Program		Ongoing



Mitigation

Agency: Central Virginia Planning District Commission (CVPDC)									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
									Ongoing, 1-3, 2-4, 3-5, 4+
Capacity	C 1.3	Establish HMP Technical Advisory Committee, include locality, citizen, business, agency representation, that meets at least twice per year to review HMP mitigation strategy progress, evaluate changes, review regional projects.	All hazards	High	Community Development		VDEM		1-3
Capacity	C 1.4	Seek opportunities to host regional mitigation, program skills training for area locality, business, and agency partner staff.	All Hazards	Medium	Community Development		VDEM, USDA, FEMA, DEQ		2-4
Capacity	C 2.6	Seek opportunity to expand regional Comprehensive Economic Development Strategy (CEDS) to incorporate community resiliency or develop regional resiliency plan in coordination with locality partners.	All Hazards	Medium	Community Development		VDEM, FEMA, EDA	CVPDC Watershed Advisory Committee, CEDS	2-4
Capacity	C 2.9	Coordinate an emergency communication and verification protocol with VDOT to ensure emergency critical staff access.	All Hazards	Low	Public Safety	VDOT	VDOT, CVTPO	Regional Transportation Plan	3-5
Capacity, Property Protection	C 2.9, P 5.3	Evaluate and seek opportunity to execute (to include regional participation agreement and equipment purchase) regional Public Safety Answering Point (PSAP) generator(s) to facilitate rapid and efficient emergency communication and response capabilities between the region's emergency response departments.	All Hazards	High	CVPDC	Locality Emergency Management	VDEM, Radio Board	Regional Radio Board	1-3



Mitigation

Agency: Central Virginia Planning District Commission (CVPDC)									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
									Ongoing, 1-3, 2-4, 3-5, 4+
Capacity	C 2.5, C 2.9	Encourage develop of local or regional Resiliency Plans	All Hazards	High	CVPDC	Member Localities	FEMA, VDEM, EDA, EPA	CEDS	1-3
Capacity, Property Protection	C 3.6, P 2.6, P 2.9	Seek opportunities to evaluate and improve corridors, especially those with recurring stormwater impacts, essential for access to public transit or other multimodal access by vulnerable populations.	Flood	Medium	CVPDC	CVTPO, GLTC	DRPT, VDOT, VDEM, FEMA	Regional Transportation Plan	3-5
Property Protection, Structure	P 2.5, P 2.6, S 2.1-2	Seek opportunities to study condition of or improve drainage along rural roadways to reduce stormwater, flood, and high hazard dam failure impacts that impact roadway movement safety or impact emergency access/movement.	Flood, Dam Failure	Low	VDOT	CVPDC, CVTPO	VDOT	Regional Transportation Plan	ongoing
Information & Outreach, Capacity, Property Protection, Natural System Resiliency	I 3.3, C 3.4, P 2.3, R 1.1	Support initiatives that expand use of green infrastructure in the region through education, workshops, training initiatives to expand expertise and local knowledge for green infrastructure use and implementation in area projects.	Flood	Low	CVPDC		VDEM, FEMA, USDA, DEQ, DHCD, EPA	CVPDC Watershed Advisory Committee	3-5
Property Protection, Structure, Natural System Resiliency	P 2.8, S 1.3, S 1.4, R 1.1	Seek opportunities to evaluate and execute streambank stabilization or other practices, to restore or protect the natural function of area streams to lessen flood impact to essential regional infrastructure (e.g. roadways, rail lines, communication towers).	Flood	Medium			FEMA, VDEM, EDA, DEQ, DCR, EPA, USACE		ongoing



Mitigation

Table 6-2 Amherst County Mitigation Actions

Community: Amherst County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.3, I 1.5	Expand public announcements to include special information for shut-ins and other vulnerable populations, how to assist, and emergency preparation.	All Hazards	High	Sheriff's Office	PSA, CVPDC, Red Cross	VDEM, County		Ongoing
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within the County's website.	Flood, Dam Failure	Low	Community Development	CVPDC	County	local realtors, local insurance agents	4+
Information & Outreach	I 1.3	Continue public hazard communication outreach to join the County's public information system (Everbridge).	All Hazards	High	Public Safety	CVPDC	VDEM, County		Ongoing
Information & Outreach	I 1.1, I 2.1, I 2.3, I 4.1	Expand hazard preparedness section within the City's website to include property evaluation, firewise practices, hazardous material storage, hurricane straps, anchors for mobile homes, and home storm preparedness kits.	Drought, Fire, Wind, Hazardous Materials	High	Community Development	CVPDC	VDEM, County		1-3
Information & Outreach	I 1.3	Communicate with private facilities, especially those in remote areas on preparedness best practices and remote registration to County warning system. Areas include Lowesville/Woodson area, Oronoco & Otter Creek campgrounds, Monacan Ancestral Museum.	All Hazards	Medium	Public Safety	CVPDC	VDEM, County	local community groups, volunteer dept.	3-5
Information & Outreach	I 1.2, I 4.2	Expand outreach with gas, fuel, small industry to provide information and best practices for hazard material storage and general hazard preparedness.	All Hazards	Medium	Public Safety	CVPDC	VDEM, County, USDA		3-5



Mitigation

Community: Amherst County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach, Capacity	I 1.1, I 3.3, I 3.7, C 3.4	Provide hardening or preparedness best practices to private property owners, especially if in the flood zone, high hazard dam inundation zone, or known for repetitive stormwater impacts, to reduce or eliminate flooding and dam failure impacts; include information on roadway highwater safety. Target communication with historical areas (e.g. Monacan Ancestral Museum), isolated and vulnerable communities.	Flood, Dam Failure	Medium	Community Development	Public Safety, Service Authority, PDC	VDEM, County, USDA, DMV		Ongoing
Capacity	C 5.2	Continue procedural response to prolonged drought or high temperature conditions to ensure ability to respond to strain on water resources and respond to community needs.	Drought, Fire, High Temps	Medium	Public Safety	VDEM, Extension Service	County Pgm, USDA		Ongoing
Capacity, Property Protection	P 1.3	Develop vulnerability analysis, security plans for facilities, equipment and procedures, and where necessary execute improvements to harden public utilities from natural and manmade hazards.	All Hazards	High	ACSA, IT	Public Safety	VDEM, FEMA, USDA, DEQ, VDH		1-3
Capacity, Property Protection	C 2.1, P 1.3	Develop vulnerability analysis, security plans, and where necessary implement, protection measures to harden County critical facilities from natural and manmade hazards.	All Hazards	High	Public Safety, IT	Community Development	VDEM, FEMA, USDA, DEQ, VDH		1-3



Mitigation

Community: Amherst County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Capacity, Property Protection, Natural Resource Resiliency	C 5.1-2, P 4.1-6, R 2.1	Seek evaluation, coordination, and funding opportunities to assist producers respond to drought, high temperatures or other environmental factors impacting crop or livestock production, yield reductions, or harvesting impacts	Drought, High Temps	Low	Extension Service, RELSWCD		USDA, VDEM, DCR, NRCS		4+
Property Protection	P 2.6	Seek opportunities to evaluate and improve drainage along roadways to ensure emergency access to critical facilities, vulnerable, or isolated communities.	Flood	Low	Community Development, VDOT	CVPDC, CVTPO	VDOT	Regional Transportation Plan	4+
Capacity, Property Protection, Structure	C 4.1, P 4.5, S 3.1	Initiate studies or execute measures to provide long-term water resource and sanitary sewer service for the Central Virginia Training Center property. Evaluation should include consideration for ACSA-Lynchburg City water system interconnection.	Flood, Drought, Fire	Low	EDA, Community Development	ACSA	EDA, USDA, DCHD, EPA, DEQ, VDH	Redevelopment Plan	4+
Capacity, Property Protection; Structure	C 3.1, P 2.5, P 2.8, S 1.1, S 1.3	Initiate studies and execute flood & dam structural improvements and maintenance at existing Amherst managed dams to meet all federal and state maximum precipitation rules and high hazard dam regulations. Includes modifications to Graham Creek primary spillway.	Flood, Dam Failure	Low	ACSA	VDEM, DCR	FEMA, VDEM, USDA		Ongoing
Property Protection, Structure	P 1.1, P 2.2, S 1.2, S 3.1	Initiate studies and execute measures for installation of a permanent, tertiary raw water intake on the James River to ensure secondary water source for the	Drought	Low	ACSA		FEMA, VDEM, USDA, VDH, DEQ		4+



Mitigation

Community: Amherst County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
		ACSA primary raw water intake on Harris Creek.							
Property Protection	P 1.1	Undertake a system analysis and execute necessary repairs and/or modifications of the ACSA sanitary sewer pump stations	All Hazards	High	ACSA		VDH, VDEM, DEQ, FEMA		Ongoing
Property Protection, Structure	P 1.1, P 4.5, S 1.2, S 3.1	Continually seek opportunities to evaluate and, where needed, install secondary water source, secondary or looping lines, and service line protection to ensure continued function of the Madison Heights water supply line to Prices Store Tank.	Drought, Fire, All Hazards	Low	ACSA		VDH, DEQ, DHCD, USDA		Ongoing
Property Protection, Natural System Resiliency	P 1.1, S 1.2, R 1.3	Continually evaluate, and where needed, extend sanitary sewage to areas with failing onsite treatment systems to protect streams and groundwater.	Fire, Drought, High Temperatures	Medium	ACSA		DEQ, VDH, VDEM, FEMA, USDA		Ongoing
Property Protection, Structure, Natural System Resiliency	P 1.1, P 2.8, S 1.3, S 1.4, R 1.1	Evaluate and implement streambank stabilization along the James River at Madison Heights to protect ACSA trunk sanitary sewer line and provide sediment reduction and environmental protection to the James River.	Flood, Dam Failure	High	ACSA		VDEM, FEMA, USDA, DEQ, VDH, NFWF, EPA, DCR		2-4



Mitigation

Community: Amherst County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Natural System Resiliency	R 1.2, R 1.3	Seek opportunities to evaluate and implement practices that protect public water resources through coordination with property owners and installation of Best Management Practices to protect sensitive resources.	All Hazards	Low	ACSA	Extension Service, James River Association	DCR, SWCD, NRCS, NFWF, DEQ	TDML Implementation Plans, Watershed Management Plans	Ongoing
Property Protection, Structure, Natural System Resiliency	P 1.1, P 2.8, S 1.3, S 1.4, R 1.1	Evaluate and implement stream restoration, through green infrastructure, streambank stabilization or other appropriate practice(s), to restore the streams natural function and lessen river flooding, high hazard dam failure, and stormwater impacts (Lowesville area, Monacan Park, Peddlar River at Buffalo Spring, Ware's Gap Road near Puppy Creek).	Flood, Dam Failure	Low	RELSWCD	Extension Service, Community Development, James River Association	VDEM, FEMA, DEQ, VDH, NFWF, EPA, DCR,	TDML Implementation Plans, Watershed Management Plans	4+
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event
Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure impacts to lives, property and financial impacts to families and communities.	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

Table 6-3 Town of Amherst Mitigation Actions

Community: Town of Amherst									
NFIP Community #: 510193									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within the County's website.	Flood, Dam Failure	Low	Community Development	CVPDC	County	local realtors, local insurance agents	4+
Information & Outreach	I 1.3	Continue public hazard communication outreach to join the Town's public information system (Code Red).	All Hazards	High	Public Safety	CVPDC	VDEM, County		Ongoing
Information & Outreach	I 1.1, I 2.1, I 2.3, I 4.1	Expand hazard preparedness section within the City's website to include property evaluation, firewise practices, hazardous material storage, wind straps and anchors for mobile homes, home storm preparedness kit.	Drought, Fire, Wind, Hazardous Materials	High	Community Development	CVPDC	VDEM, County		1-3
Information & Outreach	I 1.2, I 4.2	Expand outreach with gas, fuel, small industry to provide information and best practices for hazard material storage and general hazard preparedness	All Hazards	Medium	Public Safety	CVPDC	VDEM, County, USDA		3-5
Information & Outreach; Capacity	I 1.1, I 3.3, I 3.7, C 3.4	Provide hardening, elevation, or preparedness best practices to private property owners, especially if in the flood zone, high hazard dam inundation zone, or known for repetitive stormwater impacts, to reduce or eliminate flooding impacts; include information on roadway highwater safety.	Flood, Dam Failure	Medium	Community Development	Public Safety, Service Authority, PDC	VDEM, County, USDA, DMV		Ongoing
Capacity	C 5.2	Continue procedural response to prolonged drought or high temperature conditions to ensure ability to respond to	Drought, Fire, High Temps	Medium	Public Safety	VDEM, Extension Service	County Pgm, USDA		Ongoing



Mitigation

Community: Town of Amherst									
NFIP Community #: 510193									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
		strain on water resources and respond to community needs.							
Capacity, Property Protection	C 2.1, P 1.3	Initiate vulnerability analysis of the Town's essential facilities and equipment and seek funding to make equipment upgrades to ensure safe and continued community service in the event of short or long-term disruption caused by natural disaster, epidemic, or other substantial disruption factor.	All Hazards	High	Public Works, IT	Public Safety	VDEM, FEMA, USDA, DEQ, VDH		1-3
Capacity, Property Protection	P 1.3	Develop vulnerability analysis, security plans, and where necessary implement, protection measures to harden County critical facilities from natural and manmade hazards.	All Hazards	High	Public Safety, IT	Community Development	VDEM, FEMA, USDA, DEQ, VDH		1-3
Property Protection, Structural Projects	P 1.1, P 1.2, S 1.2	Evaluate and execute retrofit measures to reduce service disruption and facility damage to the Town's water and sanitary sewage systems: Rutledge Creek WWTP electrical, property protection measures; protection measures to secure raw water intake including backup or secondary generators or other backup systems (e.g. Quick Connect).	All Hazards	High	Public Works	Eng. Firm	VDEM, FEMA, USDA, DEQ, VDH		1-3
Property Protection	P 2.6	Seek opportunities to evaluate and improve drainage along roadways to ensure emergency access to critical facilities, vulnerable, or isolated communities.	Flood	Low	Community Development, VDOT	CVPDC, CVTPO	VDOT	Regional Transportation Plan	4+



Mitigation

Community: Town of Amherst									
NFIP Community #: 510193									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Natural System Resiliency	R 1.2, R 1.3	Seek opportunities to evaluate and implement practices that protect public water resources through coordination with property owners and installation of Best Management Practices to protect sensitive resources.	All Hazards	Low	ACSA	Extension Service, James River Association	DCR, SWCD, NRCS, NFWF, DEQ	TDML Implementation Plans, Watershed Management Plans	Ongoing
Property Protection, Structure, Natural System Resiliency	P 1.1, P 2.8, S 1.3, S 1.4, R 1.1	Evaluate and implement stream restoration, through green infrastructure, streambank stabilization or other appropriate practices, to restore or protect the streams natural function and lessen flood and high hazard dam failure impact to Town's water and sanitary sewer system.	Flood, Dam Failure	Low	RELSWCD	Extension Service, Community Development, James River Association	VDEM, FEMA, DEQ, VDH, NFWF, EPA, DCR,	TDML Implementation Plans, Watershed Management Plans	4+
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event
Capacity, Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure impacts to lives, property and financial impacts to families and communities.	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

Table 6-4 Appomattox County Mitigation Actions

Community: Appomattox County									
NFIP Community #: 510011									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.1, I 1.2	Expand outreach and safety education to property owners along the natural gas line.	All Hazards	Medium	Public Safety	Williams/Transco	VDEM		Ongoing
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within the County's website.	Flood, Dam Failure	High	Community Development	State, FEMA, CVPDC	VDEM		1-3
Information & Outreach	I 1.3	Expand public hazard communication outreach with emphasis increasing number of residents joining the County's public information system.	All Hazards	High	Public Safety		N/A; County Pgm		1-3
Information & Outreach	I 1.1, I 2.1, I 2.3, I 4.1	Expand hazard preparedness section within the County's website to include property evaluation, firewise practices, hazardous material storage, wind straps and anchors for mobile homes, home storm preparedness kit.	Drought, Fire, Wind, Hazard Materials	Medium	Public Safety	CVPDC, Community Development	VDEM, County Pgm		2-4
Information & Outreach	I 1.2, I 4.2	Establish communication with gas, fuel, small industry to provide information regarding hazard material storage and general hazard communication.	All Hazards	Low	Public Safety	Fire	County Pgm		ongoing
Information & Outreach, Capacity, Property Protection	I 3.7, C 1.4, P 2.6	Continue to identify and coordinate with VDOT to install high water warning or other safety signage along roadways with habitual stormwater impacts.	Flood	High	VDOT	Community Development	VDOT, DMV	Rural Transportation Program	1-3



Mitigation

Community: Appomattox County									
NFIP Community #: 510011									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Capacity	C 5.2	Initiate locality procedural response to prolonged drought or high temperature conditions to ensure ability to respond to strain on water resources and respond to community needs.	Drought, High Temperatures	Low	County Admin	Public Safety	County Pgm, USDA		4+
Capacity	C 2.7	Initiate building footprint diagram of schools and other older public buildings to ensure best building safety locations.	Earthquake	Low	School Admin	Public Safety	VDEM, USDA,		3-5
Capacity	C 2.9	Coordinate an emergency communication and verification protocol with VDOT to ensure emergency critical staff access.	All Hazards	High	Public Safety	VDEM	County Pgm		ongoing
Capacity, Property Protection	C 2.9, P 5.3	Evaluate and seek opportunity to execute (to include regional participation agreement and equipment purchase) regional Public Safety Answering Point (PSAP) generator(s) to facilitate rapid and efficient emergency communication and response capabilities between the region's emergency response departments.	All Hazards	High	CVPDC	Locality Emergency Management	VDEM, Radio Board	Regional Radio Board	1-3
Capacity	C 2.1	Evaluate capacity and seek to expand availability of breathing machines and oxygen tanks to respond to critical medical needs during emergency situation and power outages.	All Hazards	Medium	Public Safety	EMS			2-4



Mitigation

Community: Appomattox County									
NFIP Community #: 510011									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Capacity, Property Protection, Natural System Resiliency	C 5.1-2, P 4.1-6, R 2.1	Seek evaluation, coordination, and funding opportunities to assist producers respond to drought, high temperatures or other environmental factors impacting crop or livestock production, yield reductions, or harvesting impacts.	Drought, High Temperatures	Low	Extension	NRCS, RELSWCD	DCR, CREP, USDA, FSA		4+
Capacity	C 2.9	Seek opportunity to execute a property access agreement with property owner to allow secondary emergency access during flood or other hazard event along Blackberry Lane.	All Hazards	Low	Public Safety	Community Development	USDA, VDEM		4+
Property Protection	P 2.5, P 2.6	Seek opportunities to improve drainage along roadways to reduce stormwater and flood impacts (emergency access, dangerous driving conditions) including: Bent Creek at Route 608 and North Creek, Route 611 near Route 666 (Wreck Island Creek), and Blackberry Lane (Wolfcreek).	Flood	High	VDOT	CVPDC	VDOT	Regional Transportation Plan	ongoing
Property Protection, Natural System Resiliency	P 2.8, R 1.1	Evaluate and execute streambank stabilization or channelization to address stormwater flooding.	Flood	Low	Soil Water Conservation District	Extension	DEQ, DCR, VDEM, FEMA	Watershed Plans, TMDL IP	3-5
Property Protection, Structure	P 1.2, S 1.1-2	Fortify the County's communication network to include secondary generator at critical facilities.	All Hazards	High	Public Safety	Fire	VDEM, FEMA, DHS		2-4



Mitigation

Community: Appomattox County									
NFIP Community #: 510011									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Property Protection	P 1.2	Provide secondary generators at the County's 911 Center, Sheriff's Office and Emergency Service Center.	All Hazards	High	Public Safety	Sheriff	VDEM, FEMA, DHS		2-4
Property Protection, Structure	P 2.6, S 2.1-2	Seek opportunity to coordinate with VDOT to address flooding and at 460/Moore County Store to ensure emergency and critical care access along 460.	Flood	Medium	VDOT	Campbell County, CVPDC	VDOT, FHA	Regional Transportation Plan	3-5
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event
Capacity, Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure impacts to lives, property and financial impacts to families and communities.	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

Table 6-5 Town of Appomattox Mitigation Actions

Community: Appomattox Town									
NFIP Community #: 510194									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.1, I 1.3	Educate public, businesses and organizations on hazard preparedness and National Flood Insurance Program (NFIP) information.	All Hazards	High	Town Manager	VDEM, CVPDC, FEMA	VDEM, FEMA		Ongoing
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within the Town's website.	Flood, Dam Failure	High	Town Manager	VDEM, CVPDC, FEMA	VDEM, FEMA		1-3
Information & Outreach	I 1.1, I 1.3	Expand flood insurance coverage and value information, especially those areas known to have regular stormwater impacts and in the high hazard dam inundation zones.	Flood, Dam Failure	Low	Town Manager		VDEM, USDA, CDBG, Town		3-5
Capacity	C 5.2	Initiate locality procedural response to prolonged drought or high temperature conditions to ensure ability to respond to strain on water resources and respond to community needs.	Drought, High Temperatures, Fire	Medium	Town Manager	Public Works	Town Pgm, USDA		3-5
Capacity, Property Protection	C 2.1, P 1.3	Initiate evaluation and execute improvements to harden the Town's critical facilities to reduce vulnerability from natural, cyber, and technological hazards.	All Hazards	High	Public Works		VDEM, DHS, USDA		2-4
Property Protection	P 1.3	Initiate vulnerability analysis, security plans, and where necessary, implement security	All Hazards	Medium	Public Works		VDEM, FEMA, DHS, USDA		2-4



Mitigation

Community: Appomattox Town									
NFIP Community #: 510194									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
		measures as the Town's public utility facilities.							
Capacity, Property Protection	C 2.7, P 1.3	Initiate vulnerability analysis of the Town's essential department and equipment and seek funding to make equipment upgrades to ensure safe and continued community service in the event of short or long-term disruption caused by natural disaster, epidemic, or other substantial disruption factor.	All Hazards	High	Town Manager	Public Works	VDEM, FEMA, DHS, USDA, EDA COVID, DHCD		1-3
Property Protection	P 2.6	Seek opportunities to improve drainage to reduce stormwater and flood impacts (emergency access, dangerous driving conditions) including: Sunnydale, Hunter Street, Morris Avenue, and Dogwood Drive.	Flood	Low	Public Works	Engineering Firm	VDEM, FEMA, USDA, VDOT, DMV		4+
Property Protection, Structure	P 1.1, P 2.2, S 1.2, S 3.1	Evaluate and execute retrofit measures to reduce service disruption and facility damage to the Town's water and sanitary sewage systems (e.g. generators and secondary pumps).	All Hazards	High	Public Works	Engineering Firm	VDEM, FEMA, USDA, DEQ, VDH		1-3
Property Protection, Structure	P 1.1, P 2.2, S 1.2, S 3.1	Continually evaluate and seek funding for secondary water resource needs.	Drought, Fire, High Temperatures	High	Public Works	Engineering Firm	VDEM, USDA, DEQ, VDH, DHCD		1-3



Mitigation

Community: Appomattox Town									
NFIP Community #: 510194									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Property Protection, Structure, Natural System Resiliency	P 1.1, P 2.8, S 1.3, S 1.4, R 1.1	Evaluate and implement stream restoration, through green infrastructure, streambank stabilization or other appropriate practice, along the stream in the Sunnydale, South Church Street area to address stormwater impacts.	Flood	Medium	Public Works	Extension, Soil/Water Conservation District	VDEM, DEQ, DCR		3-5
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event
Capacity, Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure impacts to lives, property and financial impacts to families and communities.	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

Table 6-6 Bedford County Mitigation Actions

Community: Bedford County									
NFIP Community #: 510016									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.3, I 1.5	Expand public announcements to include special information for shut-ins, how to assist with shut-in, and emergency preparation.	All Hazards	High	Sheriff's Office	PSA, CVPDC, Red Cross	County, VDEM		Ongoing
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within the County's website.	Flood, Dam Failure	Low	Community Development	CVPDC	County	local realtors, local insurance agents	4+
Information & Outreach	I 1.3	Continue public hazard communication outreach to join the County's public information system.	All Hazards	High	Public Safety	CVPDC	VDEM, County		Ongoing
Information & Outreach	I 1.1, I 2.1, I 2.3, I 4.1	Expand hazard preparedness section within the City's website to include property evaluation, firewise practices, hazardous material storage, wind straps and anchors for mobile homes, home storm preparedness kit.	Drought, Fire, Wind, Hazard Materials	High	Community Development	CVPDC	VDEM, County		1-3
Information & Outreach	I 1.2, I 4.2	Expand outreach with gas, fuel, small industry to provide information and best practices for hazard material storage and general hazard preparedness	All Hazards	Medium	Public Safety	CVPDC	VDEM, County, USDA		3-5
Capacity, Property Protection	C 2.9, P 5.3	Evaluate and seek opportunity to execute (to include regional participation agreement and equipment purchase) regional Public Safety Answering Point (PSAP) generator(s) to facilitate rapid and efficient emergency communication and response	All Hazards	Medium	CVPDC	EMA, Public Safety, Regional Emergency Management	VDEM	Regional Radio Board	1-3



Mitigation

Community: Bedford County									
NFIP Community #: 510016									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
		capabilities between the region's emergency response departments.							
Capacity	C 5.2	Continue procedural response to prolonged drought or high temperature conditions to ensure ability to respond to strain on water resources and respond to community needs.	Drought, Fire, High Temperatures	Medium	Public Safety	VDEM, Extension Service	County Pgm, USDA		Ongoing
Capacity	C 2.1, C 2.9	Expand communication and coordination with AEP to ensure formalization of flood and high hazard dam failure capacity response procedures.	Flood, Dam Failure	Medium	Public Safety	DCR, Utilities	FEMA, VDEM, DCR	AEP	1-3
Capacity	C 2.1, C 2.9	Incorporate emergency strategic planning and response hazard material protocol with local industry (e.g. Georgia Pacific) within locality departmental procedures.	All Hazards	Medium	Public Safety		FEMA, VDEM	Georgia Pacific	1-3
Property Protection	P 1.3	Develop vulnerability analysis, security plans for facilities, equipment and procedures, and where necessary execute improvements to harden public utilities (e.g. Woodfield Pump Station, Montvale Treatment Plant, and electric substations) from natural and manmade hazards.	All Hazards	High	BRWA	Public Safety	VDEM, FEMA, USDA, DEQ, VDH		1-3
Capacity, Property Protection	C 2.1, P 1.3	Develop vulnerability analysis, security plans, and where necessary implement, protection measures to harden County critical facilities from natural and manmade hazards.	All Hazards	High	Public Safety, IT	Community Development	VDEM, FEMA, USDA, DEQ, VDH		1-3



Mitigation

Community: Bedford County									
NFIP Community #: 510016									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Capacity, Property Protection, Natural Resource Resiliency	C 5.1-2, P 4.1-6, R 2.1	Seek evaluation, coordination, and funding opportunities to assist producers respond to drought, high temperatures or other environmental factors impacting crop or livestock production, yield reductions, or harvesting impacts	Drought, High Temperatures	Low	Extension Service, POSWCD		USDA, VDEM, DCR, NRCS		4+
Property Protection	P 1.1, P 1.3	Evaluate and execute retrofit measures to reduce service disruption and facility damage to the County's water and sanitary sewage systems.	All Hazards	Medium	BRWA		FEMA, VDEM		Ongoing
Capacity, Property Protection	C 2.1, P 1.3	Initiate evaluation and execute improvements to harden the County's critical facilities to reduce vulnerability from natural, cyber, and other technological hazards.	All Hazards	Medium	Emergency Management, Police (Covid, other)	County IT (cyber)	VDEM, DHS, FEMA, USDA		Ongoing
Property Protection	P 2.6	Seek opportunities to evaluate and improve drainage along roadways to ensure emergency access to critical facilities, vulnerable, or isolated communities.	Flood	Low	Community Development, VDOT	CVPDC, CVTPO	VDOT	Regional Transportation Plan	4+
Property Protection, Structure	P 4.2, S 1.1	Initiate studies and execute flood & dam structural improvements at existing Bedford, BRWA managed dams to meet all federal and state maximum precipitation rules and high hazard dam regulations.	Flood, Dam Failure, Drought, Fire	Low	EDA, Community Development	ACSA	EDA, USDA, DCHD, EPA, DEQ, VDH	Redevelopment Plan	4+
Property Protection, Structure	P 1.1, P 4.5, S 1.2, S 3.1	Continually seek opportunities to evaluate and, where needed, install secondary water source, secondary or looping lines, and service line	Drought, Fire, All Hazards	Low	BRWA		VDH, DEQ, DHCD, USDA		Ongoing



Mitigation

Community: Bedford County									
NFIP Community #: 510016									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
		protection to ensure continued water system function.							
Property Protection, Structure,	P 1.1-3, P 2.2, P 2.6, P 2.7, P 2.8, S 1.3, S 1.4	Initiate evaluation and implement facility improvements to harden County public schools to provide for continuous operation. Evaluation and improvements considerations include: secondary generator needs; secondary/public water source for Montvale; address electrical service capabilities/interruptions at Big Island; stormwater/flood retrofits to Huddleston and Staunton River to protect wells and campus buildings.	All Hazards	Medium	Bedford County School	Public Safety, VDEM	FEMA, VDEM		1-3
Property Protection, Structure,	P 1.1-3, S 1.3, S 1.4	Initiate evaluation and implement facility improvements to harden those County schools used as emergency shelters to ensure continuous/safe operation. Forest, Jefferson Forest, Goodview, Montvale, Staunton River, and Thomas Jefferson.	All Hazards	Medium	Bedford County School	Red Cross	FEMA, VDEM, USDA, DHS		1-3
Property Protection	P 1.1	Execute an evaluation of the mechanical systems and building structure of the community centers. Execute, where needed, fortification actions.	All Hazards	Low	Community Development		FEMA, VDEM, USDA, DHCD, VDH		Ongoing
Capacity, Property Protection	C 4.1, P 4.4	Evaluate need, and where needed install, dry hydrants.	Wildfire	Medium	Fire Dept.	Extension	DOF, USDA, VDEM, FEMA		1-3



Mitigation

Community: Bedford County									
NFIP Community #: 510016									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Property Protection, Natural System Resiliency	P 1.1, S 1.2, R 1.3	Continually evaluate, and where needed, extend sanitary sewage to areas with failing onsite treatment systems to protect streams and groundwater.	Fire, Drought, High Temperatures	Medium	BRWA		DEQ, VDH, VDEM, FEMA, USDA		Ongoing
Capacity, Property Protection, Natural Resource Resiliency	C 5.1-2, P 4.1-6, R 2.1	Seek evaluation, coordination, and funding opportunities to assist producers respond to drought, high temperatures or other environmental factors impacting crop or livestock production, yield reductions, or harvesting impacts	Drought, High Temperatures	Low	Extension Service	NRCS, POSWCD	USDA, VDEM, DCR, CREP, NRCS	Regional Water Supply Plan	2-4
Natural System Resiliency	R 1.2, R 1.3	Seek opportunities to evaluate and implement practices that protect public water resources through coordination with property owners and installation of Best Management Practices to protect sensitive resources.	All Hazards	Low	BRWA	Extension Service, James River Association	DCR, SWCD, NRCS, NFWF, DEQ	TDML Implementation Plans, Watershed Management Plans	Ongoing
Property Protection, Structure, Natural System Resiliency	P 1.1, P 2.8, S 1.3, S 1.4, R 1.1	Evaluate and implement stream restoration, through green infrastructure, streambank stabilization or other appropriate practice(s), to restore the streams natural function and lessen river and stormwater impacts.	Flood, Dam Failure	Low	Community Development	Extension Service, Bedford Town, James River Association	VDEM, FEMA, DEQ, VDH, NFWF, EPA, DCR,	TDML Implementation Plans, Watershed Management Plans	4+
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event



Mitigation

Community: Bedford County									
NFIP Community #: 510016									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Capacity, Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure impacts to lives, property and financial impacts to families and communities.	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

Table 6-7 Town of Bedford Mitigation Actions

Community: Town of Bedford									
NFIP Community #: 510015									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.1, I 1.3	Educate public, businesses, and organizations on hazard preparedness including National Flood Insurance Program (NFIP) information.	All Hazards	Medium	Police Chief	CVPDC, Town IT	VDEM		1-3
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), high hazard dam inundation zone information within the Town's website.	Flood, Dam Failure	Low-Medium	Planning Director	State, FEMA, CVPDC, Town IT	VDEM, Town	local realtors, local insurance agents	ongoing
Information & Outreach	I 3.6	Expand flood insurance coverage, especially those areas known to have regular flooding or stormwater impacts to renters. Those in the high hazard dam inundation zone will be identified too.	Flood, Dam Failure	Low-Medium	Public Works	CVPDC	DHCD, USDA	local realtors, local insurance agents	ongoing
Information & Outreach	I 1.3	Develop public hazard communication outreach with emphasis on joining the County's public information system.	All Hazards	Medium	Town IT	County EMS	VDEM, Town		ongoing
Property Protection	P 5.1, P 5.2	Evaluate system and execute repairs or install a new emergency warning system in the Town	All Hazards	High	Fire Dept.	Police, Bedford County	VDEM	County Fire and Rescue	1-3
Capacity, Property Protection	C 4.1, P 4.2	Evaluate the Town's fire hydrants and implement system improvements or expansion where needed.	Fire	Medium	Fire Dept.		VDEM, USDA,	Bedford Regional Water Authority	ongoing



Mitigation

Community: Town of Bedford									
NFIP Community #: 510015									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Capacity, Property Protection	C 2.1, P 1.3	Initiate evaluation and execute improvements to harden the Town's critical facilities to reduce vulnerability from natural, cyber, and other technological hazards.	All Hazards	Medium-High	Emergency Management, Police (Covid, other)	Town IT (cyber)	VDEM, DHS, USDA		ongoing
Capacity, Property Protection	C 5.2	Maintain locality procedural response to high temperature conditions to ensure ability to respond to community needs.	High Temperature	Low	Police		Town Pgm, USDA		4+
Capacity, Property Protection	C 2.1, P 1.3	Develop vulnerability analysis, security plans, and where necessary implement, protection measures at public utilities and other critical Town facilities.	All Hazards	Medium-High	Electric Dept.	Police, Sheriffs Office	VDEM, FEMA, USDA, DEQ, VDH		1-3
Property Protection	P 1.1-3	Seek opportunities to evaluate and execute improvements (e.g. backup generators) to harden essential community resources to ensure safe and continued service during short or long-term disruption caused by natural disaster, epidemic or other disruption factor including Bedford Memorial Hospital.	All Hazards	High	Hospital	Town Electric Dept.	VDEM, FEMA, USDA, VDH		1-3
Property Protection	P 2.6	Seek opportunities to evaluate and improve drainage along roadways to ensure emergency access and safe movement; target areas of Town with recurring flooding: South Bridge St., West Gate/Blue Ridge Ave., Summit & 4th St./Train Trestle.	Flood	Low	Public Works	VDOT, CVPDC	VDEM, FEMA, USDA, VDOT, DMV	Regional Transportation Plan	4+



Mitigation

Community: Town of Bedford									
NFIP Community #: 510015									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
		Develop high water driving safety education.							
Property Protection, Structure	P 1.1, P 2.1, P 2.2, S 1.3	Evaluate and execute necessary improvements to harden, retrofit, elevate, or move the Town's electric substations from flood and high hazard dam failure impacts.	Flood, Dam Failure	Low	Electric		FEMA, VDM, DEQ, USDA		4+
Property Protection, Structure, Natural System Resiliency	P 1.1, P 2.8, S 1.3, S 1.4, R 1.1	Evaluate and implement streambank restoration, through green infrastructure, streambank stabilization or other appropriate practices, to lessen stormwater impact to BRWA Woodfield Pump Station, other water and sanitary facilities. (Natural resources/watershed plan).	Flood	Low	Planning Dept.	Water Authority, CVPDC	VDEM, FEMA, DEQ, VDH, NFWF, EPA, DCR,		3-5
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event
Capacity, Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure impacts to lives, property and financial impacts to families and communities.	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

Table 6-8 Campbell County Mitigation Actions

Community: Campbell County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.3, I 1.5	Expand public announcements to include special information for shut-ins and other vulnerable populations, how to assist with shut-in, and emergency preparation.	All Hazards	High	Sheriff's Office	PSA, CVPDC, Red Cross	County, VDEM		Ongoing
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within the County's website.	Flood, Dam Failure	Low	Community Development	CVPDC	County	local realtors, local insurance agents	4+
Information & Outreach	I 1.3	Continue public hazard communication outreach to join the County's public information system.	All Hazards	High	Public Safety	CVPDC	VDEM, County		Ongoing
Information & Outreach	I 1.1, I 2.1, I 2.3, I 4.1	Expand hazard preparedness section within the City's website to include property evaluation, firewise practices, hazardous material storage, wind straps and anchors for mobile homes, home storm preparedness kit.	Drought, Fire, Wind, Hazard Materials	High	Community Development	CVPDC	VDEM, County		1-3
Information & Outreach	I 1.3	Communicate with private and medical facilities, especially those that provide a public service or house hazardous materials (e.g. YMCA, UVA Medical Center, Framatome) about hazard mitigation.	All Hazards	Medium	Public Safety	CVPDC	VDEM, County	local community groups, volunteer dept.	3-5



Mitigation

Community: Campbell County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach, Capacity	I 1.1, I 3.3, I 3.7, C 3.4	Provide hardening or preparedness best practices to private property owners, especially if in the flood zone, high hazard dam inundation zone, or known for repetitive stormwater impacts, to reduce or eliminate flooding impacts; include information on roadway highwater safety.	Flood, Dam Failure	Medium	Community Development	Public Safety, Service Authority, PDC	VDEM, County, USDA, DMV		Ongoing
Capacity	C 5.2	Continue procedural response to prolonged drought or high temperature conditions to ensure ability to respond to strain on water resources and respond to community needs.	Drought, Fire, High Temperatures	Medium	Public Safety	VDEM, Extension Service	County Pgm, USDA		Ongoing
Capacity, Property Protection	C 2.9, P 5.3	Evaluate and seek opportunity to execute (to include regional participation agreement and equipment purchase) regional Public Safety Answering Point (PSAP) generator(s) to facilitate rapid and efficient emergency communication and response capabilities between the region's emergency response departments.	All Hazards	Medium	CVPDC	EMA, Public Safety, Regional Emergency Management	VDEM, Radio Board	Regional Radio Board	1-3
Capacity	C 2.1	Expand communication & coordination between agencies (e.g. VDOT) and emergency personnel to expedite emergency response, access, evacuation procedures.	All Hazards	Medium	EMA, Public Safety	VDOT	VDEM, County		1-3



Mitigation

Community: Campbell County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Capacity	C 2.1	Expand communication and coordination with the railroad to obtain inspection cycles and information on any fortification or evaluation programs (3 tunnels Taber, 501 and Altavista).	Earthquake	Medium		Norfolk Southern, CVPDC, CVTPO	County	Regional Transportation Planning	1-3
Capacity, Property Protection	C 2.1, P 1.3	Develop vulnerability analysis, security plans, and where necessary implement, protection measures to harden County critical facilities from natural, technological, and manmade hazards.	All Hazards	High	Public Safety, IT	Community Development	VDEM, FEMA, USDA, DEQ, VDH		1-3
Capacity, Property Protection	C 2.1, P 1.1	Seek opportunities to evaluate and where needed secure roadways and access routes to critical facilities and sensitive industries.	All Hazards	Low	Public Works, Public Safety, VDOT	Planning, CVPDC	VDOT, VDEM, FEMA	Regional Transportation Planning	1-3
Capacity, Property Protection	C 4.1, P 4.4	Evaluate need, and where needed install, dry hydrants.	Wildfire	Medium	Fire Dept.	Extension	DOF, USDA, VDEM, FEMA		4+
Property Protection, Structure	P 1.1, S 1.2	Seek opportunities to increase water flow capacity along Route 29 near Flat Creek Pump Station	Flood, Dam Failure, Fire	High	CCUSA				1-3
Property Protection	P 2.6	Seek opportunities to evaluate and improve drainage along roadways to reduce stormwater and flood impacts (emergency access, dangerous driving conditions) including: Timberlake, Brookville High School, Rainbow Forest, Cresthaven/460 areas.	Flood	Medium	Public Works, VDOT	Campbell County Public Schools, Planning, CVPDC, CVTPO	VDOT, VDEM, FEMA	Regional Transportation Planning	Ongoing



Mitigation

Community: Campbell County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Property Protection, Structure, Natural System Resiliency	P 2.8, S 1.3, S 1.4, R 1.1	Evaluate and implement streambank restoration, through green infrastructure, streambank stabilization or other appropriate practice, along the Staunton River and tributaries to lessen stormwater impact to County infrastructure, critical facilities, and public spaces.	Flood	Low	RELSWCD	Extension Service, Community Development, James River Association	VDEM, FEMA, DEQ, VDH, NFWF, EPA, DCR,	TDML Implementation Plans, Watershed Management Plans	4+
Property Protection, Structure	P 2.1, P 2.6, S 1.3	Instigate elevation and flood mitigation evaluation studies at County critical facilities within the flood and high hazard dam inundation zones and implement the mitigation.	Flood, Dam Failure	High	Community Development, CCUSA		FEMA, VDEM, DEQ, VDH, USDA		Ongoing
Property Protection	P 4.3	Coordinate with the Forest Service to evaluate, and when needed execute, controlled burns to lessen wildfire impacts.	Wildfire	Low	Forestry	Extension	DOF, USDA, VDEM		4+
Property Protection, Structure	P 1.1, P 2.2, S 1.2	Support resiliency evaluation and installation of fortification measures to lessen flood impact (e.g. pump station, etc.) to water and wastewater system infrastructure.	All Hazards	High	Community Development, CCUSA				1-3
Property Protection	P 5.1, P 5.3	Secure existing or expand communication network to accommodate service communication during an emergency or recovery period.	All Hazards	Medium	Public Safety	Regional Radio Board			1-3
Property Protection	P 3.2	Continually seek opportunities to underground utility lines to essential infrastructure and critical facilities.	All Hazards	Medium	Public Works and Utilities	VDOT, AEP	FEMA, DHDC, USDA		Ongoing



Mitigation

Community: Campbell County									
NFIP Community #: 510010									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Property Protection, Structure	P 1.1, P 4.5, S 1.2, S 3.1	Continually seek opportunities to evaluate and, where needed, install secondary water source, secondary or looping lines, and service line protection to the County's water system.	Drought, Fire, All Hazards	Medium	CCUSA	Community Development	VDH, DEQ, DHCD, USDA		Ongoing
Capacity, Property Protection, Natural Resource Resiliency	C 5.1-2, P 4.1-6, R 2.1	Seek evaluation, coordination, and funding opportunities to assist producers respond to drought, high temperatures or other environmental factors impacting crop or livestock production, yield reductions, or harvesting impacts	Drought, High Temperatures	Medium	Extension Service, RELSWCD		USDA, VDEM, DCR, CREP, NRCS	Regional Water Supply Plan	4+
Property Protection, Structure, Natural System Resiliency	P 1.1, S 1.2, R 1.3	Continually evaluate, and where needed, extend sanitary sewage to areas with failing onsite treatment systems to protect streams and groundwater.	Fire, Drought, High Temperatures	High	CCUSA	VDH- Lynchburg District, Community Development	DEQ, VDH, VDEM, FEMA, USDA		Ongoing
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event
Capacity, Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure impacts to lives,	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

Community: Campbell County

NFIP Community #: 510010

Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
		property and financial impacts to families and communities.							



Mitigation

Table 6-9 Town of Altavista Mitigation Actions

Community: Town of Altavista									
NFIP Community #: 510029									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.1, I 1.3	Educate public, businesses, and organizations on hazard preparedness including National Flood Insurance Program (NFIP) information.	All Hazards	Medium	Community Development	CVPDC	VDEM, FEMA, Town Pgm	local realtors, local insurance agents	1-3
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within the Town's website.	Flood, Dam Failure	Medium	Community Development	CVPDC	Town Pgm	local realtors, local insurance agents	1-3
Information & Outreach	I 3.6	Expand flood insurance coverage, especially those areas known to have regular flooding or stormwater impacts to renters. Those in the high hazard dam inundation zone will be identified too.	Flood, Dam Failure	Low	Community Development	CVPDC	DHCD, USDA	local realtors, local insurance agents	3-5
Information & Outreach	I 1.3	Develop public hazard communication outreach with emphasis on joining the County's public information system.	All Hazards	Medium	Administration	Campbell County Emergency Services (Code Red)	VDEM, Town Pgm		2-4
Capacity	C 2.1, C 2.9	Expand communication and coordination with AEP, thereby creating standard operating procedures, regarding dam release and river turbidity to protect Town water and wastewater infrastructure.	Flood, Dam Failure, Drought	High	Utilities	Public Works, Community Development, Altavista Police	Town Pgm, VDEM	AEP, Campbell County EMS	1-3



Mitigation

Community: Town of Altavista									
NFIP Community #: 510029									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Capacity, Natural System Resiliency	C 2.1, R 1.3	Initiate a Staunton River and Watershed Protection coordination with Hurt, Pittsylvania County, Campbell County and other surrounding jurisdictions.	Flood, Dam Failure	Low	Community Development	Utilities	NFWF, EPA, VDH, DCR, DEQ,	Pitts, Hurt, CC, RELSWCD, DEQ, VDH	3-5
Capacity, Property Protection	C 3.6, P 1.1	Evaluate and execute retrofit measures to reduce service disruption and facility damage to the Town's water and sanitary sewage systems.	All Hazards	Medium	Utilities	Public Works, Administration	DEQ, USDA, DHCD	USDA, VDHODW	Ongoing
Property Protection	P 1.3	Initiate evaluation and execute improvements to harden the Town's critical facilities to reduce vulnerability from natural, cyber, and technological hazards.	All Hazards	Medium	Utilities	Public Works, Administration	VDEM, FEMA, DHS, USDA, EDA, COVID, DHCD,	EPA, VRWA	Ongoing
Capacity	C 5.2	Maintain locality procedural response to prolonged drought or high temperature conditions to ensure ability to respond to strain on water resources and respond to community needs.	Drought, High Temperatures	Medium	Utilities	Administration	Town Pgm, USDA	EPA	Ongoing
Capacity, Property Protection	C 2.1, P 1.3	Develop vulnerability analysis, security plans, and where necessary implement, protection measures at public utilities and other critical Town facilities.	All Hazards	High	Utilities	Administration	VDEM, FEMA, USDA, DEQ, VDH		Ongoing



Mitigation

Community: Town of Altavista									
NFIP Community #: 510029									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Property Protection, Structure	P 2.2, P 2.8, S 1.3, S 1.4	Evaluate and execute berm or other necessary mitigation features to protect the Town's water and wastewater facilities from flooding and high hazard dam failure impacts.	Flood, Dam Failure	High	Utilities	Public Works, Administration	FEMA, VDM, DEQ, USDA		3-5
Property Protection, Structure, Natural System Resiliency	P 2.8, S 1.3, S 1.4, R 1.1	Evaluate and implement streambank restoration, through green infrastructure, streambank stabilization or other appropriate practice, along the Staunton River and tributaries to lessen stormwater impact to Town's water & sanitary sewer system, public park, and public spaces. (Natural resources/watershed plan).	Flood	High	Public Works	Community Development, Utilities	VDEM, FEMA, DEQ, VDH, NFWF, EPA, DCR,	Recreation Committee, Dept of Forestry, RELSWCD, Corps of Engineer, VDH	1-3
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event
Capacity, Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure impacts to lives, property and financial impacts to families and communities.	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

Table 6-10 Brookneal Mitigation Actions

Community: Brookneal Town									
NFIP Community #: 510030									
Regional Strategy Identification	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.1, I 1.3	Educate public, businesses and organizations on hazard preparedness and National Flood Insurance Program (NFIP) information	All Hazards	Medium	Public Works Dept.	Governing Body, CVPDC	VDEM, FEMA, Town Pgm	local realtors, local insurance agents	Ongoing
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within the Town's website.	Flood, Dam Failure	Medium	Public Works Dept.	Governing Body, CVPDC	Town Pgm	local realtors, local insurance agents	Ongoing
Information & Outreach	I 3.6	Expand renter's insurance and flood insurance coverage and value information, especially those areas known to have regular stormwater impact. Those in the high hazard dam inundation zone will be identified too.	Flood, Dam Failure	Medium	Public Works Dept.	Governing Body, CVPDC	DHCD, USDA	local realtors, local insurance agents	Ongoing
Information & Outreach	I 1.3	Develop public hazard communication outreach with emphasis on joining the County's public information system	All Hazards	Medium	Public Works Dept.	Governing Body, Campbell County Emergency Services (Code Red)	VDEM, Town Pgm	Campbell County EMS	Ongoing
Capacity, Property Protection	C 3.6, P 1.1	Evaluate and execute retrofit measures to reduce service disruption and facility damage to the Town's water and sanitary sewage systems	Flood, All Hazards	Medium	Public Works Dept.	Governing Body	DEQ, USDA, DHCD	USDA, VDHODW	Ongoing
Property Protection	P 1.3	Initiate evaluation and execute improvements to harden the Town's critical facilities to reduce vulnerability	All Hazards	Low	Public Works Dept.	Governing Body	VDEM, FEMA, DHS,	EPA, VRWA	3-5



Mitigation

Community: Brookneal Town									
NFIP Community #: 510030									
Regional Strategy Identification	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
		from natural, cyber, and other technological hazards.					USDA, EDA, COVID, DHCD		
Capacity, Property Protection	C 3.6, P 1.2	Initiate evaluation and install backup generators at the Town's utility facilities (e.g. lagoons) to harden the critical facilities to reduce vulnerability from flooding or other hazard disruptions.	Flood, Wind	High	Public Works Dept.	Governing Body	VDEM, FEMA, DHS, USDA, DHCD		2-4
Capacity	C 5.2	Initiate locality procedural response to prolonged drought or high temperature conditions to ensure ability to respond to strain on water resources and respond to community needs.	Drought, High Temps	Medium	Public Works Dept.	Governing Body	Town Pgm, USDA	EPA	2-4
Capacity, Property Protection	C 2.1, P 1.3	Develop vulnerability analysis, security plans, and where necessary implement, protection measures at public utilities and other critical Town facilities.	All Hazards	Medium	Public Works Dept.	Campbell County Public Safety	VDEM, FEMA, USDA, DEQ, VDH		Ongoing
Property Protection, Structure, Natural System Resiliency	P 2.8, S 1.3, S 1.4, R 1.1	Evaluate and implement streambank stabilization or channelization along the Staunton River and tributaries to lessen stormwater, flooding, and high hazard dam failure impacts to Town's water and sanitary sewer system.	Flood, Dam Failure	Medium	Public Works Dept.	Governing Body	VDEM, FEMA, DEQ, VDH, NFWF, EPA, DCR	Recreation Committee, Dept of Forestry, RELSWCD, Corps of Engineer, VDH	Ongoing
Capacity	C 2.1, C 2.9	Expand communication and coordination with AEP regarding dam release and river turbidity to protect Town water and wastewater infrastructure	Flood, Dam Failure, Drought	Medium	Public Works Dept.	Governing Body, AEP, Altavista	Town Pgm, VDEM	AEP, Campbell County EMS	Ongoing



Mitigation

Community: Brookneal Town									
NFIP Community #: 510030									
Regional Strategy Identification	Regional Strategy	Action Item Description	Hazard(s)	Priority (High, Medium, or Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Capacity, Property Protection	C 3.6, P 1.1, P 1.3	Initiate vulnerability analysis of the Town's essential departments and equipment and seek funding to make equipment upgrades to ensure safe and continued community service in the event of short or long-term disruption caused by natural disaster, epidemic, or other substantial disruption factor.	All Hazards	High	Town Manager	Public Works Dept.	VDEM, DHS, FEMA, USDA, EDA, COVID, DHCD		1-3
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event
Capacity, Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard dam failure impacts to lives, property and financial impacts to families and communities.	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

Table 6-11 Lynchburg City Mitigation Actions

Community: Lynchburg City									
NFIP Community #: 510093									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.1, I 1.3	Educate public, businesses, and organizations on hazard preparedness including National Flood Insurance Program (NFIP) information	All Hazards	High	Emergency Services, Water Resources, Community Development	CVPDC	VDEM, FEMA, City	Local realtors, local insurance agents	1-3
Information & Outreach	I 1.1, I 1.3	Expand outreach and education about the National Flood Insurance Program (NFIP), including inclusion within the City's website.	Flood, Dam Failure	High	Emergency Services, Water Resources, Community Development	Communications - Marketing Dept., CVPDC	City		1-3
Information & Outreach	I 3.6	Expand flood insurance coverage, especially those areas known to have regular flooding or stormwater impact. Those in the high hazard dam inundation zone will be identified too.	Flood, Dam Failure	Medium - Low	Emergency Services, Water Resources, Community Development	Fire Department	VDEM, City CDBG, Private Lenders		3-5
Information & Outreach	I 3.1-3	Enhance and maintain an education campaign for the floodplain management program to educate homeowners or business owners on floodplain requirements and flood and dam breach preparedness including highwater roadway safety information.	Flood, Dam Failure	High	Emergency Services, Water Resources, Community Development	Fire Department, CVPDC	VDEM, FEMA, NFWF, DMV		1-3



Mitigation

Community: Lynchburg City									
NFIP Community #: 510093									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
Information & Outreach	I 1.1, I 2.1, I 2.3, I 4.1	Expand hazard preparedness section within the City's website to include property evaluation, firewise practices, hazardous material storage, wind straps and anchors for mobile homes, home storm preparedness kit.	All Hazards	High	Emergency Services, Water Resources, Community Development	Fire Department, Communications/ Public Engagement	VDEM, City		1-3
Information & Outreach	I 3.3	Provide information to property owners in the floodplain to assist in identifying and implementing wet and dry floodproofing projects.	Flood	Medium	Community Development, Water Resources	Communication/ Public Engagement	FEMA		3-5
Information & Outreach	I 1.3	Develop a public communications plan/strategy for floods and high hazard dam failure.	Flood, Dam Failure	High	Water Resources, Emergency Services	Communications/ Public Engagement	FEMA		
Information & Outreach, Capacity	I 1.2, I 4.2, C 4.4	Maintain communication with gas, fuel, and small industry to provide information regarding hazard material storage and general hazard communication. Include utilities and private sector in exercises including next year's functional contamination exercise. Visit Tier 2 hazmat locations.	All Hazards	Medium	Emergency Services, Fire Department	Community Development	VDEM, City		Ongoing
Information & Outreach, Capacity	I 1.2, C 2.1, C 2.9	Identify points of contact and integrate private utilities and other, privately-owned critical	All Hazards	Medium	Emergency Services, Fire Department	GIS, Community Development	VDEM, City		Ongoing



Mitigation

Community: Lynchburg City									
NFIP Community #: 510093									
Strategy Category	Regional Strategy	Action Item Description	Hazard(s)	Priority (High Medium Low)	Lead Agency or Department	Support Agency or Department	Potential Funding Sources	Coordination Opportunity(s)	Time Frame (years)
		infrastructure into hazard mitigation planning.							
Information & Outreach, Capacity	I 1.2, C 2.1, C 2.9	Provide guidance on conducting vulnerability assessments and continuity of operations planning for private utilities and other, privately-owned critical infrastructure.	All Hazards	Medium	Emergency Services, Fire Department	GIS, Community Development	VDEM, City		Ongoing
Capacity, Natural System Resiliency	C 2.5, C 3.5, R 1.2, R 2.1-2	Study land use/land cover in the sensitive areas (i.e., floodplain, high hazard dam inundation zones, streams, and steep slopes) to identify areas for conservation/open space.	Flooding, Dam Failure	Medium	Water Resources, Community Development, Public Works (Forestry)	GIS	VDEM, FEMA, DCR, DEQ, NFWF	CVPDC Watershed Program	1-3
Capacity	C 3.3-6	Promote sustainable and resilient development of the City's riverfront.	All Hazards	High	Water Resources, Community Development, Economic Development	CVPDC	City, Private Investors, FEMA, VDEM	City Downtown Master Plan, Regional Comprehensive Economic Development Strategy	Ongoing
Capacity	C 2.1, C 2.8	Adopt new floodplains restudied by FEMA.	Flood	High	All City Dept.	FEMA, DCR, VDEM	FEMA		1-3
Capacity	C 2.1, C 2.8	Update floodplain ordinance and other plans based on new floodplain.	Flood	High	Water Resources, Community Development	PDC, Public Works, Lynchburg City Schools	VDEM, FEMA		3-5



Mitigation

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Capacity	C 6.4	Develop debris management plan	Wind, Tornado	Low	Public Works, Water Resources, Fire Department	Parks & Recreation	VDEM, City	CVPDC	
Information & Outreach, Capacity	I 3.6, C 2.1	Implement elevation certificates collection protocol/program.	Flood	Low	Community Development	Water Resources	City		Ongoing
Capacity	C 2.1	Identify unreinforced masonry schools and other public buildings and educate occupants on safer locations in the structure. Coordinate locations with hazards	Earthquake, Tornado, High Wind Hazards	Low	Fire, Emergency Services, Community Development	PDC, Public Works, Lynchburg City Schools	VDEM, City	CVPDC	2-4
Capacity	C 1.4	Encourage and participate in CFM Training.	Flood	Low	Water Resources, Community Development	Fire Department, Emergency Services, Public Works, Parks & Recreation, DCR	VDEM, City		2-4
Capacity	C 2.1, C 2.8	Develop and publicize heat response plan which includes the use of cooling centers	Extreme Temperatures	Low	Emergency Services	Parks & Recreation, Lynchburg City Schools, Fire Department	FEMA, VDEM, City		2-4
Capacity	C 1.1	Consider starting a Community Emergency Response Team (CERT).	All Hazards	Medium	Emergency Services or Fire Dept.	Emergency Services	FEMA, City		1-3



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Capacity	C 1.1, C 1.2	Pursue entrance into the Community Rating System (CRS) Program.	Flood	High		DCR	City		1-3
Capacity, Property Protection	C 2.1, C 2.8, P 2.6	Evaluate resources needed and initiate procedure to manage emergency road closure events.	All Hazards	Low	Emergency Services, GIS, Public Works	Police, Fire, Water Resources			Ongoing
Property Protection	P 1.3	Develop vulnerability analysis, security plans, and where necessary implement, protection measures at public utilities and other critical facilities.	All Hazards	Medium	All City Dept.	VDEM	VDEM, FEMA, DEQ, VDH, DHS		ongoing
Property Protection	P 1.3	Initiate evaluation and execute improvements to harden the City's critical facilities to reduce vulnerability from cyber and other technological hazards.	All Hazards	High	Information Technology	City Security Task Force	VDEM, FEMA, DHS, EDA, COVID, DHCD	City Security Task Force	ongoing
Capacity, Information & Outreach	C 3.1, I 3.4	Seek high hazard dam breach evaluation and studies to determine worst case inundation area of multiple high hazard dams breaching at once.	Dam Failure	Medium	Water Resources, Emergency Services	CVPDC, DCR	FEMA, DCR, VDEM	Amherst and Campbell Counties	1-3
Property Protection	P 2.5, P 2.6, P 2.8	Implement stormwater retrofits to reduce flooding, reduce contributing runoff from impervious surfaces	Flood	Medium	Water Resources, Public Works		VDEM, FEMA, DEQ, DCR		4+



Mitigation

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Property Protection	P 1.1, P 1.2	Evaluation of back-up power/generator/network for DWR facilities and other City facilities, emergency/neighborhood shelters, and other City facilities.	All Hazards	High	Water Resources, Public Works, Lynchburg City Schools	IT	City, VDEM, DHS		1-3
Property Protection	P 1.1, P 1.2	Implementation of back-up power/generator/network for DWR facilities, emergency/neighborhood shelters, and City facilities	All Hazards	High	Water Resources, Public Works, Lynchburg City Schools	IT	FEMA, VDEM	Adjacent counties and towns	3-5
Property Protection, Structure, Natural System Resiliency	P 2.8, S 1.3, S 1.4, R 1.1	Evaluate stream corridors for stream bank stability issues to protect public assets (sewer, trails, transportation) and identify/prioritize projects for implementation of stream restoration projects.	Flood, Dam Failure	Medium	Water Resources, Public Works	CVPDC	VDEM, FEMA, DEQ, VDH, NFWF, EPA, DCR	RELSWCD, TMDL Implementation Plans, CVPDC Watershed Program, James River Association	3-5
Property Protection, Structure	P 1.1, P 2.5, P 2.8, S 1.3	Retrofit of stormwater infrastructure to manage stormwater runoff	Flood	Medium	Water Resources, Public Works		VDEM, FEMA, DEQ, EPA		Ongoing
Property Protection, Capacity	P 3.1, C 6.1	Initiate tree canopy analysis or condition study; selectively remove dead or diseased trees that have the potential to impact structures or block ROW during weather events	Wind, Flood, High Temperatures	Medium	Public Works, Parks & Recreation	Water Resources	VDEM, FEMA, DOF, City		Ongoing



Mitigation

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Property Protection, Capacity	P 5.1, C 2.8	Develop a flood and high hazard dam failure communication plan for City-owned dams.	Flood, Dam Failure	High	Water Resources, Emergency Services	Communication/ Public Engagement, GIS	VDEM, FEMA		Ongoing
Capacity, Property Protection	C 3.1, P 2.1	Initiate hydrologic evaluations and stormwater impact analysis to identify potential properties, open spaces, or businesses appropriate for acquisition to reduce repetitive loss or provide green infrastructure stormwater storage.	Flood, Dam Failure	Medium	Water Resources, Community Development	Public Works, Parks & Recreation	VDEM, FEMA		4+
Capacity, Property Protection	C 3.3, C 3.5, C 3.6, P 2.1, P 2.3	Develop strategy to address Repetitive Loss properties and areas.	Flood	High	CRS Coordinator	Water Resources, Emergency Services, DCR	VDEM, FEMA, DCR		1-3
Information & Outreach	I 3.2 I 3.6	Seek opportunities to execute property flood audits for properties in floodplains.	Flood	Medium	Community Development, Water Resources	Fire Department	VDEM, FEMA	Local realtors, local insurance agents	3-5
Structure	S (all)	Mitigation reconstruction.	All Hazards	High	TBD	TBD	VDEM, FEMA		After Event
Capacity, Property Protection	C 3.3, P 2.1	Initiate program and studies to execute elevation, relocation, or acquisition measures, especially in area of repetitive flooding, to reduce or eliminate flooding and high hazard	Flood, Dam Failure	High	Community Development		VDEM, FEMA		Ongoing



Mitigation

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		dam failure impacts to lives, property and financial impacts to families and communities.							