APPENDIX I

STATUS OF PREVIOUS MITIGATION ACTIONS

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Community: **Augusta County**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
12.1 – 12.2	Continue study of dam risk assessment. Seek funding to inspect, maintain, and upgrade older dams. ** Note: The December 2009 Floodplain Ordinance revision added floodpool areas to the Special Flood Hazard Area. The County continues to work with the HWSWCD, Staunton, and Waynesboro to map inundation zones for all publicly owned, regulated dams in Augusta County.*	Flood	Medium	**Ongoing** Robinson Hollow Dam 310 – A and Inch Branch Dam have been upgraded. Currently work is being done on the Hearth Stone dam on Tillman Road.
1.3	Floodplain Ordinance – Update and revise ordinance; include floodplain overlay district to zoning ordinance. ** Note: 2009 revision includes a general prohibition on development on new lots in the floodplain and institutes compensatory storage for any fill in the floodplain*.	Flood	Medium	**Completed** Floodplain Ordinance revised in December 2009*.
15.3	Update FEMA's flood maps for the following areas in the County that have repetitive flooding problems: North Mountain Estates on East Dry Branch, Deerfield on Hamilton Branch, Crawford Manor at East Dry Branch, Jolliet Springs on South River, near Crimora, Stuarts Draft, and Augusta Springs on Little Calfpasture River.	Flood	Medium	**Completed** FEMA finished a Physical Map Revision with effective date of 08/3/15. Other revisions remain on the list for future updates.
14.1	Continue to provide citizens with in-school programs, communication classes, tours, and emergency management seminars.	Multi-Hazards	High	**Ongoing** Retained in update.
10	Increase emergency communications capability including Reverse 9-1-1, Ind. Map, Emergency Action Plans (EAPs), Dam Protocols, Mass E-mails, and "Child Is Missing" Hotline.	Multi-Hazards	High	**Ongoing** Retained in update.
9.1	Maintain IFLOWS Rain-Stream Gauge. Install new gauges in Verona and Swoope.	Flood	High	**Ongoing** Retained in update.
12	Restoration of Dams in Robinson Hollow, Tom Branch, and Mills Creek.	Flood	High	**Completed**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
13.1 –13.2	County has been an active participant in stream remediation projects through the Emergency Watershed Protection Program. Maintenance work has been and will continue to be performed when required on a large-scale project on the Saint Mary's River.	Flood	High	**Ongoing** Retained in update.
16	Create and keep updated a regional Emergency Operations Plan (EOP) with the cities of Staunton and Waynesboro to more effectively and efficiently utilize the resources of the three localities.	Multi-Hazards	High	**Completed/Ongoing** Retained in update.
5	Complete a wildfire protection plan to assess vulnerable woodland areas and propose mitigation techniques and projects to reduce wildfire risk in the County.	Wildfire	High	**Completed**
7.9 –7.10	Continue development and implementation of planning, preparedness, and response strategies for pets, livestock, and other animals in the County. Maintain regional animal sheltering trailer to assist with animal needs during a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
16	Continue to partner with the Shenandoah Valley Regional Airport in training and implementation of their Airport Emergency Response Plan.	Multi-Hazards	High	**Ongoing** Retained in update.
14.6	Maintain the Staunton-Augusta-Waynesboro Community Emergency Response Team (S-A-W CERT).	Multi-Hazards	High	**Ongoing** Retained in update.
12	Yearly, participate in a Regional Dam Exercise that also includes private dam owners.	Flooding	Medium	**Ongoing** Retained in update.
11	Work with the Virginia Department of Transportation (VDOT) to keep roadways and stormwater drainage free from debris particularly when severe weather is anticipated.	Multi-Hazards	High	**Ongoing** Retained in update.
10	Implement a smoke installation program for mobile home and residential structures in the County.	Fire	High	**Completed**

Community: **Bath County**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
6.1	Develop a program to elevate, relocate, floodproof or acquire floodprone structures in order to reduce or eliminate future damages with priority given to structures that are repetitively flooded. Areas of concern where flooding is repetitive include Hot Springs, Jackson River, Mill Creek, Millboro, Millboro Springs, Mountain Grove, and Pads Creek.	Flood	High	**Pending** County continues to seek funding.
15.3	Explore the possibility of revising the County 's Flood Insurance Rate Maps (FIRMS) through the Physical Map Revision Process to address changes in the current floodplain delineation.	Flood	High	**Ongoing** Retained in update.
9.1	Maintain current IFLOWS rain/stream gauges and consider installing additional gauges in areas of concern if funding is available.	Flood	High	**Ongoing** Retained in update.
10	Implement the Code Red Emergency Notification system throughout the County. This system allows for telephone notification for the entire County or targeted areas during emergency situations that require immediate action.	Multi-Hazards	High	**Completed**
10	Construct new E-911 Center which will contain an enhanced 911 hardware and software program that will allow dispatches to receive telephone calls from land lines as well as cell phones and create location maps.	Multi-Hazards	High	**Pending** County continues to seek funding.
11.4	Continue to implement and expand Emergency Sheltering Program in the County by partnering with the Red Cross and applying for grant funding for emergency generators for shelters.	Multi-Hazards	High	**Ongoing** Retained in update.
16	Continue participation in the Bath County Local Emergency Planning Committee (LEPC).	Multi-Hazards	High	**Ongoing** Retained in update.
13	Consider flood mitigation actions in the County focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Highland County**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, and property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
13	Consider mitigation actions in the County that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Rockbridge County**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
6.1	Complete the South River Flood Mitigation Project which calls for the acquisition of up to 35 properties that were destroyed or damaged in Hurricane Isabel.	Flood	High	**Completed**
3.2	Develop a St. Mary's/South River Watershed feasibility study – a joint project with Augusta County and the Army Corps of Engineers to study the flooding along the St. Mary's and South River watersheds.	Flood	Medium	**Cancelled** Not retained in update; plan participants were unaware of this action and its status.
13.1	Continue the stream remediation and bank stabilization work by NRCS on the South River that was affected by Hurricane Isabel and prior flooding events.	Flood	Medium	**Completed**

Community: **Rockingham County**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
13.1	Begin the stream remediation projects sponsored by NRCS on Germany River, Naked Creek, and Dry Run River that call for streambank restoration, removal of watershed impairments and installation of debris basins to repair damage caused by Hurricane Isabel.	Flood	High	**Completed**
14.4	Continue participation in Department of Forestry's Firewise Program, a community awareness and education program that encourages and acknowledges woodland communities to take action that minimizes home loss to wildfires by preparing for a fire before it occurs	Wildfire	High	**Ongoing** Retained in update.
6.1	Seek funding to continue county-wide residential flood mitigation project that calls for acquisition, elevation, floodproofing of properties identified as at-risk of future flooding. Most of these houses are located in the Naked Creek, Rawley Springs, and Bergton/Criders area of the County.	Flood	High	**Cancelled** These properties are now mitigated as a result of the Germany River Project.
9.1	Rockingham and Page Counties to install an I-Flow gauge on Naked Creek as well as complete stream remediation.	Flood	N/A	**Completed**
16	Continue support of the Harrisonburg-Rockingham Disaster Recovery Committee, a volunteer group made up of representatives of local churches, the Red Cross, Salvation Army, United Way, VOAD, Social Services, Rockingham County and others that work with residents affected by disasters in providing assistance not covered by federal and state recovery programs.	Multi-Hazards	High	**Ongoing** Retained in update.
7.10	Continue support of the Harrisonburg and Rockingham SPCA emergency shelter for pets and livestock during a disaster. Volunteers trained to work with animals during disaster situations staff the shelter. Fire Chief also serves on the State Animal Response Committee as well. Completed a grant-funded project that provided a pet emergency supply trailer including supplies and training.	Multi-Hazards	Medium	**Ongoing** Retained in update.
6.1	Acquire houses located in the floodplain along Naked Creek and have land deeded in Open Space.	Flood	High	**Cancelled** Property owners are not willing to sell.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
9.1	Install and maintain I-FLOW gauges in two dams: Dry River and Hone Quarry in the middle of each dam.	Flood	High	**Completed**
3.4 – 3.6	Implement mitigation strategies within the Lake Shenandoah watershed to address recurrent urban flooding. Continue work to select suitable mitigation strategies, including increased detention capacity and increased conveyance capacity. Once suitable options are determined, move forward with implementation when resources are available.	Flood	High	**Completed** The County received a grant and installed a retention basin. The County continues regular monitoring.

Community: **City of Buena Vista**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
8	Continue study of acquiring and demolishing the Reeves Brothers plant, a major industrial site that was closed in 1985 after Hurricane Juan severely damaged the plant.	Flood	Low	**Cancelled** Reeves Brothers Plan has been sold.
3.4	Continue the Buena Vista Watershed Project to prevent flooding from four of the interior streams that flow through Buena Vista. The project funded by the USDA would protect 240 residences, 70 commercial structures, and utilities by constructing debris basins, replacing culverts and bridges, and improving stream channels.	Flood	High	**Ongoing** Retained in update.
6.1	Seek funding to continue city-wide residential flood mitigation project that calls for the acquisition, elevation, floodproofing of properties identified as at-risk of future flooding.	Flood	High	**Ongoing** Retained in update.

Community: **City of Harrisonburg**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
15.1	Continue participation in FEMA's Cooperating Technical Program (CTP), a technical assistance program sponsored by FEMA that will assist the City in re-mapping the entire floodplain boundary in the City.	Flood	Medium	**Completed/Ongoing** Retained in update.
16	Continue support of the Harrisonburg-Rockingham Disaster Recovery Committee, a volunteer group made up of representatives of local churches, the Red Cross, Salvation Army, United Way, VOAD, Social Services, Rockingham County and others that work with residents affected by disasters in providing assistance not covered by federal and state recovery programs.	Multi-Hazards	High	**Ongoing** Retained in update.
12.2	Decommission the dam at James Madison University* ** Note: Over-topping protection was constructed in 2014-15 to protect impoundment failure.*	Flood	High	**Cancelled** Alternate construction completed.
3.4	Replace a deteriorating culvert bridge on Madison Street with upsized culverts which will trap less debris during storm events.	Flood	High	**Completed**
3.2, 3.4	Identify and implement drainage improvement projects to mitigate flooding throughout the City. Projects may be identified through the Drainage Improvement Program, the Stormwater Improvement Plan, or other methods.	Flood	High	**Ongoing** Retained in update.
13	Consider mitigation actions in the City that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **City of Lexington**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
13.1	Complete the Woods Creek Restoration Project to address water quality/quantity problems along Woods Creek, which runs through the City. The project includes establishing riparian buffers, control storm runoff, modify existing stormwater retention facilities and educate property owners about water quality/quantity issues.	Flood	Medium	**Ongoing** Retained in update. The City received a DEQ Stormwater Local Assistance Fund (SLAF) grant to implement this.

Community: **City of Staunton**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
3.4	Complete construction of the Churchville Avenue storm sewer project that is vital to reducing and alleviating downstream flooding in the central business district.	Flood	High	**Completed**
3.2	Seek funding to prepare site-specific hydrologic and hydraulic studies that look at the downtown commercial/historic areas that have chronic and repetitive flooding problems. After study is completed, implement recommended mitigation strategies.	Flood	High	**Pending** Retained in update. The City is seeking funding.
9, 16	Increase expenditures for state-of the-art equipment, communication systems, and heavy equipment to respond to natural disasters in an effective and efficient manner.	Multi-Hazards	Low	**Pending** Retained in update. The City is seeking funding.
8.2	Provide floodproofing measures to approximately 12 commercial structures in the downtown area that have been identified as at-risk of flooding. Six additional commercial structures needing floodproofing remain.	Flood	High	**Completed**
3.4	Demolish structures in floodplain on Central Avenue and complete process of “daylighting” a tributary of Lewis Creek.	Flood	High	**Completed**
10	Install emergency notification system with “Reverse 911” capability and notification by text.	Multi-Hazards	High	**Completed** The City now has the “Staunton Alert Message” system.
6.3	Implement a floodproofing project throughout the City that will strap down above ground storage tanks in the floodplain.	Flood	High	**Cancelled** Lack of funding.
11.4	Install generators at all the designated emergency shelters in the City.	Multi-Hazards	High	**Completed**
7.10	Maintain an animal supply trailer and all the supplies needed to stock the mandated animal shelter which will be located at Augusta Expo.	Multi-Hazards	High	**Completed**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
13	Create a retention pond in the western portion of the City and install other stormwater facilities throughout the City as needed to address stormwater issues.	Flood	High	**Cancelled** Project was evaluated as infeasible.
16	City departments will undergo an annual review of the planning process to evaluate their preparedness.	Multi-Hazards	High	**Ongoing** Retained in update.
16	Create a regional Emergency Operations Plan (EOP) with the City of Waynesboro and Augusta County to more effectively and efficiently utilize the resources of the three localities.	Multi-Hazards	High	**Completed/Ongoing** Retained in update.
14.6	Maintain the Staunton-Augusta-Waynesboro Community Emergency Response Team (S-A-W CERT).	Multi-Hazards	High	**Ongoing** Retained in update.
11.1	Move the fire station located at 500 N. Augusta Street out of the floodplain.	Flood	High	**Cancelled** Project was evaluated as infeasible.
13	Consider mitigation actions in the City that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **City of Waynesboro**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
6.1	Complete the acquisition and relocation of tenants of the Race Ave. Trailer Park, a 33-unit trailer park that has been repetitively and seriously damaged in numerous flood events.	Flood	High	**Completed**
6.2	Continue city-wide residential flood mitigation project that calls for the acquisition, elevation, or floodproofing of more than 50 properties identified as at-risk for future flooding. Most of the houses are in the River Shores/Club Court and adjacent to downtown areas of the City.	Flood	High	**Ongoing** Retained in update. Sixteen properties have been purchased and kept in "open space".
6.1	Complete a project to elevate houses, floodproof utilities, and install flood vents for 12 properties located on residential areas adjacent to downtown area in the floodplain	Flood	High	**Ongoing** Retained in update.
13	Implement greenways project along South River to keep floodplain in "Open Space".	Flood	High	**Completed**
3.4	Implement stormwater project for Wayne Hills Field in front of the Public Works Building by creating retention pond and connecting drop inlets with piping to travel to retention pond.	Flood	High	**Completed**
6.2	Seek funding to implement a flood mitigation project to provide floodproofing and retrofitting measures to Waynesboro's downtown commercial area.	Flood	Medium	**Ongoing** Retained in update.
3.1	Update a master stormwater study that identifies, analyzes, and prioritizes flooding in areas throughout the City. Hire a stormwater manager for the City.	Flood	Medium	**Ongoing** The City has a stormwater management team in Public Works.
12	Install a flood control dam in Jones Hollow to address problem of ingress and egress of property owners near the mountain whose houses don't flood but people get trapped.	Flood	High	**Completed**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
16	Create a regional Emergency Operations Plan (EOP) with the City of Staunton and Augusta County to more effectively and efficiently utilize the resources of the three localities.	Multi-Hazards	High	**Completed/Ongoing** Retained in update.
14.6	Maintain the Staunton-Augusta-Waynesboro Community Emergency Response Team (S-A-W CERT)	Multi-Hazards	High	**Ongoing** Retained in update.

Community: **Town of Bridgewater**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
6.2	Seek funding to complete the Bridgewater Flood Mitigation Project where structures have been identified at-risk of flooding and mitigation options such as acquisition, elevation, and/or floodproofing is recommended.	Flood	High	**Completed**
3.4-3.5	Aggressively improve the Town's levee system. Maintain levee annually.	Flood	High	**Ongoing** Retained in update.
3	Implement plans and regulations at the local level to meet revised storm water management regulations.	Flood	High	**Ongoing** Retained in update.
13	Consider mitigation actions in the Town that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Town of Broadway**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
1.3	Complete a stream bank restoration project on the full length of Linville Creek to repair erosion that has already occurred and lessen future erosion. Linville Creek is the back-up water supply for the Town. The purpose of this project is to protect water and sewer lines, floodplain management, and protect the water intake.	Multi-hazards	Medium	**Delayed** Lack of funding.
6.1	Acquire structures in the floodplain in Town.	Flood	Medium	**Ongoing** Retained in update.
3.4	Remove a sewer line that is above grade	Multi-hazards	Medium	**Delayed** Lack of funding.

Community: **Town of Craigsville**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
3.4	Seek funding to replace and improve infrastructure in key locations throughout the town to reduce flood damage caused by the interior streams, as well as inadequate culverts and infrastructure. Coordinate project with VDOT.	Flood	High	**Ongoing** Retained in update.
13	Consider mitigation actions in the Town that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Town of Dayton**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
11	Put fencing around water treatment plant with locked gates and surveillance equipment and alarms for water levels getting too low.	Multi-Hazards	N/A	**Completed**
14	Implement a fire education program to educate citizens on the fire code and burning permits.	Wildfire	N/A	**Cancelled** Lack of staff capacity.
3.2	Conduct a hydrologic study and floodplain analysis to determine vulnerable areas in the Town that receive flooding from Cook's Creek. Implement mitigation measures where needed.	Flood	N/A	**Completed** (In part – Mill Street project)
3.4	Implement a stormwater drainage project to address the stormwater issues on Main Street and College Street.	Flood	N/A	**Completed**
11	Add lightning protection to the Town's Water Plant.	Severe Storms	High	**Completed**
13	Consider mitigation actions in the Town that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Town of Elkton**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
13	Consider mitigation actions in the Town that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Town of Glasgow**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
6.2	Seek funding to complete the Glasgow Residential Flood Mitigation Project that calls for the acquisition, relocation, and elevation of approximately 10 residential properties that have been severely damaged in past events.	Flood	High	**Delayed** Lack of funding.
3.4, 13.1	Seek funding to complete the Glasgow Interior Stream Drainage Project to prevent or reduce flooding along Sallings Mountain and Miller Mountain. The project calls for the construction of a debris basin, flood diversion wall, improved channelization, and replacement of several culverts throughout Town. To date ditches have been cleaned out but that is all.	Flood	High	**Delayed** Lack of funding.
3.2	Complete a hydrologic, floodplain, and stormwater study to access new and continued vulnerable areas in the Town and to provide recommendations for improvements to be made to the Town's stormwater system.	Flood	High	**Delayed** Lack of funding.
3.4	Create a stormwater retention pond in north Glasgow. i.e. 1st Street and Pocahontas.	Flood	High	**Delayed** Lack of funding.
11	Implement a project to safeguard the Town's water system and 2 municipal wells through a wellhead protection project that includes proper abandonment of unused wells, fencing, and other security measures, routine inspections of utility lines, and education for property owners, business, industry, and railroad. Also create another well.	Multi-hazards	Medium	**Ongoing** Retained in update.
3.4	Implement check-valve system or other floodproofing to prevent culverts from backing up as they enter the Maury River when rainwater inundates the stormwater drainage system as the river water simultaneously rises.	Flood	High	**Delayed** Lack of funding.
11	Remove the Glasgow Fire Department from the location of its current building in the floodplain to a less vulnerable location.	Flood	High	**Delayed** Lack of funding.
6.1	Implement a flood mitigation project to acquire, relocate, or elevate structures on 53 properties located in the floodplain in the Town.	Flood	High	**Completed**

Community: **Town of Goshen**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
11	Seek funding to relocate the Goshen Town Hall out of the floodplain. This critical facility is located on Main Street in close proximity to Mill Creek in a low-lying area that receives repeated flooding and affects the operation of the Town. The Town has purchased 40 acres out of the floodplain that could be used as an alternative site.	Flood	Medium	**Completed**
13	Consider mitigation actions in the Town that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Town of Grottoes**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
3.4	Complete the Grottoes Stormwater Drainage Improvement Project to address flooding caused by ponding and poor drainage along Miller Run and Dry Run. Project Improvements such as ditching, replacement of undersized culverts, and drainage piping will protect between 30 and 50 structures and eliminate water on roads, yards, and crawl spaces. Clean-up of Miller Run takes place every year.	Flood	High	**Completed/Ongoing** Initial project was completed and maintenance is on-going.
11	Extend earthen berm in Grottoes Town Park to provide protection to the park which periodically receives flooding from the South River.	Flood	High	**Completed**
11	Implement bank stabilization project at Grand Caverns to protect area from erosion and flooding.	Flood	High	**Ongoing** Retained in update.
13	Consider mitigation actions in the Town that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Town of Monterey**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
13	Consider mitigation actions in the Town that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Town of Mount Crawford**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
11	Make improvements to the Town Hall property to include, but not limited to: 1. Public Park; 2. Public river access and landing This is to include floodplain management and environmental conservation and preservation.	Multi-Hazards	High	**Ongoing** Retained in update. Town received a grant to implement this action.
13	Consider mitigation actions in the Town that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.

Community: **Town of Timberville**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
14.1	Maintain a relationship with the Southern Shenandoah Chapter of Virginia Voluntary Organizations Active in Disaster (VOAD), to share knowledge and resources throughout the preparation, response, and recovery phases of a disaster.	Multi-Hazards	High	**Ongoing** Retained in update.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
2.1 – 2.4	Maintain the community's compliance with the National Flood Insurance Program (NFIP) by engaging in various activities included in the three basic components of the NFIP program; 1. floodplain identification and mapping risk, 2. responsible floodplain management, and 3. flood insurance. Sample activities include but are not limited to: maintaining publicly accessible and accurate Flood Insurance Rate Maps (FIRMs), adopting and enforcing a compliant floodplain ordinance, and provide general assistance and education to community members regarding the flood insurance program.	Flood	High	**Ongoing** Retained in update.
5.1 – 5.4	Encourage the lessening of potential wildfires in our community and the region by; 1. Education and outreach to residents, especially those that live in woodland areas and the Wildland Urban Interface (WUI). 2. Reduction of hazardous fuels throughout the community.	Wildfire	High	**Ongoing** Retained in update.

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
	3. Reduction of structural ignitability to limit injury, loss of life, property and structural damage. 4. Having trained first responders with proper tools and equipment that will serve as a frontline defense against a wildfire.			
3.1, 3.2	Conduct a stormwater management study to determine the effectiveness of the Town's stormwater system, highlight vulnerable areas to flooding, and provide recommendations for ways to improve the system.	Flood	High	**Ongoing** Retained in update.
16	Complete a detailed Emergency Operations Plan written specifically for the Town.	Multi-hazards	Low	**Cancelled**
11	Explore options with the Army Corps of Engineers for the feasibility of dredging the river.	Flooding	High	**Ongoing** Retained in update.
11	Implement security measures to protect the Town's water source.	Multi-hazards	High	**Ongoing** Retained in update.

Community: **James Madison University**

Reg. Strat. ID #	Mitigation Strategy	Hazard	Priority	Project Status
14.1	Continue membership and participation in Shenandoah Valley Project Impact, the regional disaster preparedness and mitigation education program that was started in September 2000. Shenandoah Valley Project Impact educates citizens in the region about disaster preparedness and mitigation through public awareness campaigns, workshops and trainings, and an extensive resource library.	Multi-Hazards	High	**Cancelled** Shenandoah Valley Project Impact is no longer active.
6.1 – 6.8 8.1, 8.2 10.1 – 10.4 12.1	Support implementation of structural and non-structural mitigation activities on private or public property to reduce exposure to and provide protection from natural and man-made hazards. Eligible projects include but are not limited to acquisition, elevation, minor structural flood control projects, relocation of structures, retrofitting of existing structures, infrastructure protection measures, stormwater and wastewater management improvements, advanced warning systems, hazard gauging systems, hazard education, and wildfire mitigation projects.	Multi-Hazards	High	**Ongoing** Retained in update.
13	Consider mitigation actions at the University that are focused on natural systems protection.	Flood	High	**Ongoing** Retained in update.