



West Piedmont Planning District Commission Regional Hazard Mitigation Plan Update 2021 Mitigation Advisory Committee Kick-Off Meeting

December 16, 2020

Agenda


- Welcome and Introductions
- Regional HMP Overview and Update
- Updating the Hazard ID and Risk Assessment
- Hazard Selection and Ranking
- Discussion of Current Plan Status and Changes
- Workplan
- Schedule
- Wrap Up and Next Steps

Welcome and Introductions

- Name
- Department/Role
- What is your goal for this project?
- What issues are you concerned about?
- What information/expertise can you contribute?

Welcome and Introductions

The Decision Makers

- Mitigation Advisory Committee (MAC)
- Local Planning Teams (LPT) 
- Commonwealth of Virginia (VDEM)
- FEMA Region III

Dewberry Team

- Scott Choquette, Project Manager
- Jade Payne, Mitigation Planner
- Jillian Browning, GIS Lead
- Leslie Barksdale, Local Liaison

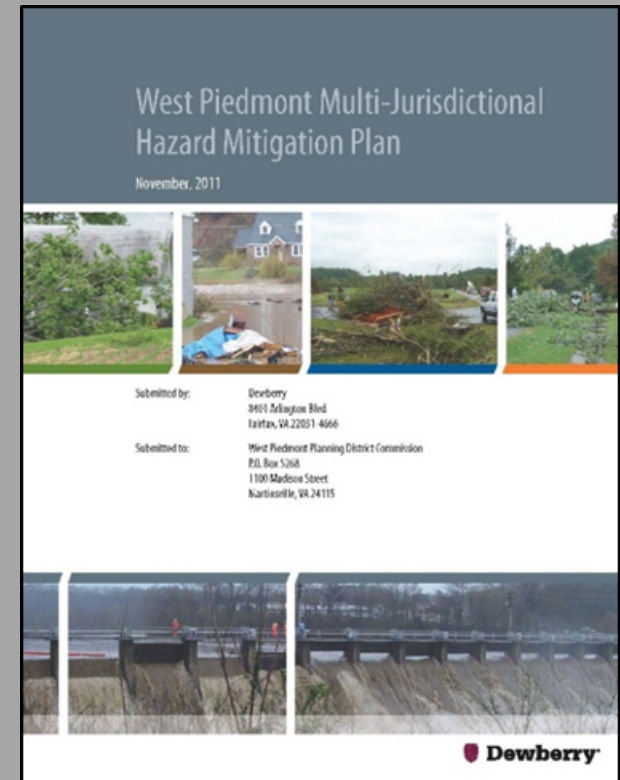
It's your Plan!

We are here to:

- Facilitate the process
- Lend technical expertise & consultation
- Do the heavy lifting

You are here to:

- Participate and contribute hazard information
- Make the final decisions
- Help ensure that we collectively create a plan that the PDC and all participating jurisdictions can and will use to reduce future losses

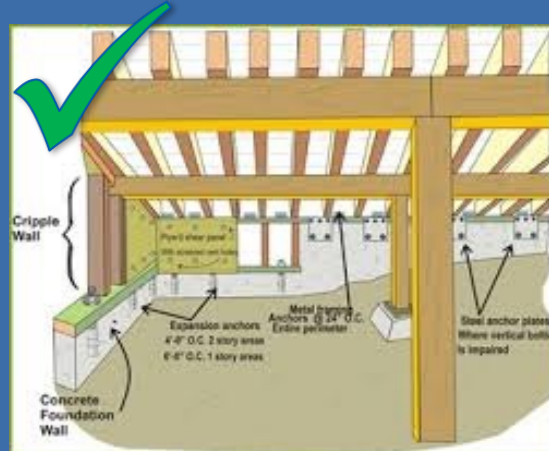


What is Mitigation?

Any sustainable action that will reduce or eliminate injury to citizens, damages to structures and allow continuity of critical society functions



Mitigation
Defensible Space for
Wildfire Mitigation



Mitigation
Earthquake Retrofit



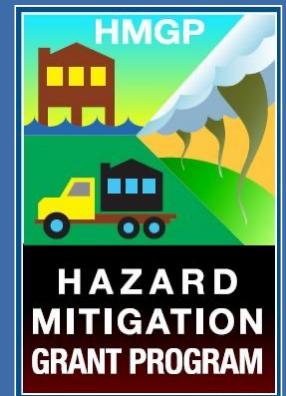
Preparedness & Response
purchase of a police
command vehicle

Why a Hazard Mitigation Plan?

- Reduces or eliminates the need to respond
 - Lessening resource burden
- Creates resiliency and sustainability
- Promotes Data sharing between different levels of government and academia
- Supports decision making
- Disaster Mitigation act of 2000
 - Certain Public Assistance (State Plans)
 - Hazard Mitigation Assistance Programs

Hazard Mitigation Grants

- Local communities must have a FEMA-approved Hazard Mitigation Plan in place to receive Federal Grant Funds for Hazard Mitigation Projects
 - BRIC (Building Resilient Infrastructure and Communities)
 - HMGP (Hazard Mitigation Grant Program)
 - FMA (Flood Mitigation Assistance)
- Other (non-FEMA) funding sources



Plan Update Requirements

- Comprehensive planning process / foster relationships
 - Description of who is involved and how the plan is prepared
 - Established method for monitoring, maintaining and updating the plan
- Hazard Identification and Risk Assessment update
 - Hazard profiles, vulnerabilities, potential losses, development trends
- Focus on mitigation strategy and actions
 - Goals, progress, evaluation of actions, implementation plan
- Improve mitigation capabilities
 - Discussion of current policies, programs, and capabilities to support LHMPs and reduce risk statewide
- Approval by VDEM & FEMA and adoption every 5 Years

Planning Process



Public Outreach

- Part of the Planning Process Requirements
- Public
 - Residents
 - Business Owners
- Stakeholders
 - Neighboring Communities
 - Chambers, Neighborhood Associations
 - Large Employers
 - Federal, State and NGO Partners



*We want to know what
your priorities are!*

DISCUSSION – OTHERS?

Approach-Public Engagement During Covid-19



Stakeholder &
Community
Champion
Engagement



Project Website



Online Survey



Virtual Workshops
& Focus Groups



Video on Internet



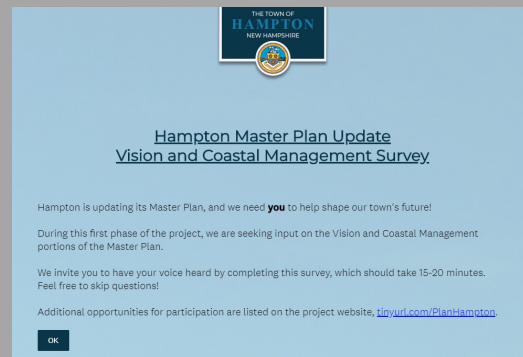
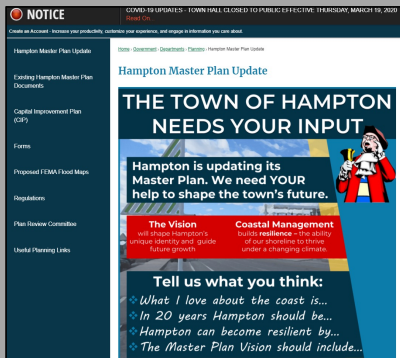
Story Map

- Expand Reach
- Secure Buy-In
- Community-Based
- Social Media



Approach-Public Engagement During Covid-19

- Project Website
 - Touchstone for All Engagement
- Online Survey
 - Short and Long Versions
 - Comprehensive Data Collection



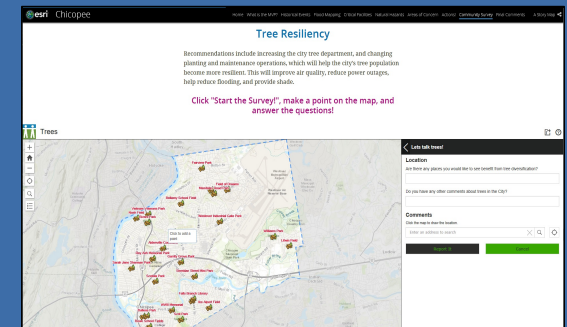
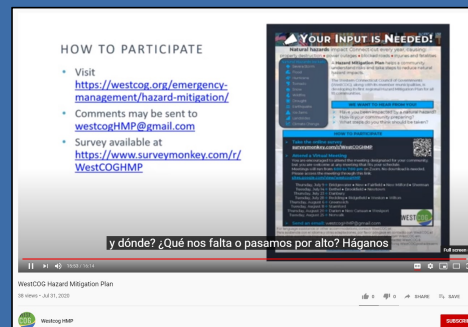
Approach-Public Engagement During Covid-19



- Virtual Workshops and Focus Groups
 - Conversation between Public and Municipality
 - Probe more Deeply
 - Build Relationships & Engagement
 - Focus Groups Targeted Topically or by Group

- Video on Internet
 - Accessible
 - Everyone knows YouTube!
 - Closed Captions in Multiple Languages
 - Not Time-Constrained

- Story Map
 - Public Education and Knowledge
 - Spatial & Narrative Information
 - Spatial Data Collection
 - Interactive



Continuous Improvement

- Focus on what's important to participants
 - Addressing short duration high intensity rainfall events
 - Beaver Creek Reservoir Dam inundation mapping
 - Increased emphasis on dams in general
 - Increased focus on integration and implementation – project development
 - Incorporating VDEM and FEMA Region III review comment and all updates since last plan

DISCUSSION – OTHERS?

Other Update Items

- **Address FEMA Local Plan Requirements**
 - Fully integrate NFIP program and FMA Requirements
 - Repetitive and Severe Repetitive Loss properties
 - Describe current status of projects
 - Address changes to critical facilities
 - Address changes to capacity and capabilities

Other Update Items

- **Address Commonwealth of VA Requirements**
 - Capability Assessment and Gap Analysis for all participating jurisdictions
 - Address all data limitations
 - Project Data Sheets for Priority Projects
 - All data will be non-proprietary

Discussion About Existing Plan

- What do you like about current plan?
- Are there other efforts currently going on in your community that we should be aware of?
- Have the necessary people/departments been asked to participate?
- What would you like changed in the revision?


DISCUSSION

Hazard Identification and Risk Assessment

Hazard Type	Planning Consideration Level (2016)	2021 Considerations
Natural		
Winter Storms	High	DISCUSSION
Flooding (with Shoreline Erosion)	High	
Wind (including Hurricanes, Thunderstorms)	Medium-High	
Drought	Medium-Low	
Wildfire	Medium	
Tornado	Medium	
Earthquake	Low	
Landslide	Low	
Erosion	Not addressed	
Karst/Subsidence	Not addressed	
Man Made		
Dams (Impoundment Failure)	Medium-Low	DISCUSSION
High Voltage Transmission (HVT) Lines	Medium	
Organic/Inorganic Spills	Medium-High	
Pipelines	Medium	
Agriterrorism	Medium-Low	

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 Dewberry

Hazard Ranking Criteria

Probability/History	Vulnerability	Maximum Threat (Geographic Area Affected)	Warning Time
Unlikely No documented occurrence with annual probability <0.01	Negligible 1 to 10% of people or property	Isolated < 5% of community impacted	Extended Three days or more
Somewhat Likely Infrequent occurrence with at least one documented event with annual probability between 0.5 and 0.01	Limited 10 to 25% of people or property	Small 5 to 25% of community impacted	Limited 2 days
Likely Frequent occurrence with at least 2 documented events with annual probability between 1 and 0.5	Critical 25 to 50% of people or property	Medium 25 to 50% of community impacted	Minimal 1 day
Highly Likely Common events with annual probability >1	Catastrophic >50% of people or property	Large >50% of community impacted	No Notice < 24 hours

HIRA Update

- What natural hazard events have occurred since 2016?
- What specific vulnerabilities exist in the planning area that may not have been captured in the previous plan?
- Please provide any updates to areas of concern noted in HIRA narrative.

DISCUSSION

Critical Facilities

- Existing list from 2016 will be distributed ahead of LPT meetings
- Deadline will be provided w/ distribution or at LPT meetings

ADDRESS	CITY	STATE	County1	TYPE
25355 Virgil H Goode Hwy.	Boones Mill	VA	Franklin	Fire/Rescue
359 BOONES MILL RD	Boones Mill	VA	Franklin	Govt
18 Military Dr	Chatham	VA	Pittsylvania	Fire/Rescue
35 Depot St	Chatham	VA	Pittsylvania	Fire/Rescue
53 N Main St	Chatham	VA	Pittsylvania	Fire/Rescue
16 Court Pl	Chatham	VA	Pittsylvania	Govt
1 Center St	Chatham	VA	Pittsylvania	Govt
9 Woodlawn Heights Rd	Chatham	VA	Pittsylvania	Govt
326 S Main St	Chatham	VA	Pittsylvania	Govt
21 N Main St	Chatham	VA	Pittsylvania	Govt
1 N Main St	Chatham	VA	Pittsylvania	Govt
4 S Main St	Chatham	VA	Pittsylvania	Medical
100 Rorer St	Chatham	VA	Pittsylvania	Nursing Home

Approach for Loss Estimation

- **HAZUS Level 1 analysis for Flood, Hurricane Wind, and Earthquakes**
 - Improved methodology in most recent version
 - If desired, can focus on critical structures
- **For the Non-HAZUS Hazards:**
 - Use NCEI (former NCDC)
 - Use NFIP losses
 - Use Public Assistance reimbursements
 - Downscale loss estimates from VA HMP
 - Ask for typical losses for the most challenging hazards (i.e., wildfire losses)
- **Augment with Exposure Analysis**
- **Must Address Climate Change**
- **Must be consistent with the Commonwealth's HMP**



Capabilities Assessment

Capability Assessment

- Template will be provided
- Deadline will be provided with distribution or at LPT meetings

West Piedmont Hazard Mitigation Plan 2021 update - Capability Assessment Update

1. Table VI-1 – Key departments
2. Table VI-2 – Technical Capability Matrix
3. Table VI-3 – Fiscal Capability Matrix
4. Table VI-4 – Financing Mechanisms by Jurisdiction
5. Current Mitigation Efforts
6. Comprehensive plans – provide latest version
7. Table VI-6 – Availability of Plans
8. Land Use and Development Trends – note any changes to regulations described
9. Table VI-7 – Availability of Ordinances
10. Table VI-8 – Capability Self-Assessment

Hazard Mitigation Strategy

Goals and Objectives

Goal 1: To protect persons and property, and reduce future damage and losses to the community

Objective 1.1. Improve local warning capabilities.

Objective 1.2. Use planning and regulations to reduce risk.

Objective 1.3. Use property acquisition techniques to reduce exposure in the floodplain.

Objective 1.4: The West Piedmont Planning District Commission communities will support implementation of structural and non-structural mitigation activities to reduce exposure to natural and man-made hazards.

Goal 2: Implement activities that assist in protecting lives by making homes, businesses, infrastructure, critical facilities, and other property more resistant to natural hazards.

Objective 2.1. Use construction practices and other techniques to reduce vulnerability to natural hazards.

Goals and Objectives

Goal 3: Protect new and existing public and private infrastructure and facilities from the effects of hazards.

Objective 3.1. Undertake actions to protect facilities (i.e., buildings) owned by the community.

Objective 3.2. Implement measures to protect utility systems from natural hazards.

Objective 3.3. Improve natural and manmade drainage systems to reduce flooding.

Objective 3.4. Identify and implement ways to reduce flooding of roadways.

Goal 4: Ensure continued functionality of critical services

Objective 4.1. Undertake actions to ensure continued power at critical community facilities.

Objective 4.2. Undertake activities to provide continuous water service.

Objective 4.3. Reduce amount of time that roads are closed after a natural hazard event.

Goals and Objectives

Goal 5: Enhance the capabilities and capacity of local government to lessen the impacts of future disasters

Objective 5.1. Enhance or develop plans that improve the community's ability to respond to and recover from disaster.

Objective 5.2. Address training and staffing needs.

Objective 5.3. Improve data used for emergency management purposes.

Goal 6: Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Objective 6.1. Develop and implement programs that address manmade hazards.

Objective 6.2. Develop and implement programs that educate people and businesses about what they can do to prepare for natural hazards.

Objectives 6.3. Work with community partners to improve awareness of natural hazards.

Objective 6.4. Use the media to increase awareness of natural hazards.

Goals and Objectives

Goal 7: Promote hazard mitigation as a public value in recognition of its importance to the health, safety, and welfare of the population

Objective 7.1. Undertake activities that recognize the importance of hazard mitigation as crucial to the long-term viability of the community and economic resiliency.

Goal 8: Increase use of existing and new technology to enhance disaster mitigation, preparedness, response and recovery

Objective 8.1. Use mapping to improve awareness of potential hazards.

Objective 8.2. Use mapping to improve response and recovery after hazards occur.

Objective 8.3. Continue to expand capabilities of existing technological tools for the purposes of warning and response.

Goal 9: Promote regional approaches to emergency management

Objective 9.1. Develop memoranda of understanding, mutual aid agreements, and other mechanisms for collaborative response to disasters.

Mitigation Actions from 2016

- Must identify the completed, deleted, or deferred actions or activities from the previously approved plan as a benchmark for progress.
- Existing list will be distributed and completed at LPT meetings

Public Involvement in Plan

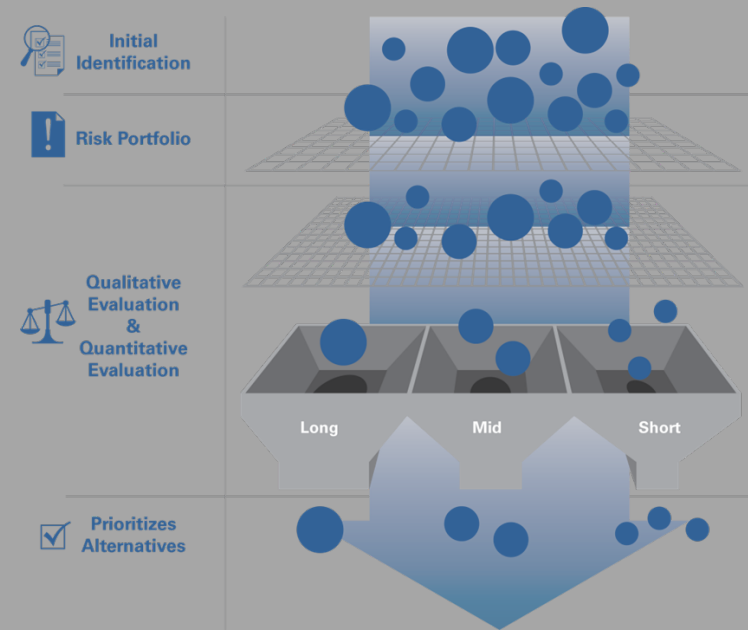
- Document how the community was kept involved during the plan maintenance process over the past five years.

DISCUSSION



Approach for Mitigation Actions

- Retire “ongoing” and “continuous” actions
- Shift from preparedness to true mitigation
- Break individual projects into pieces such that a reasonable phase is identified for the five-year planning horizon
- Avoid “consider”
 - Bad: “Consider enrolling in the CRS Program”
 - Good: “Quantify the costs and benefits of enrolling in the CRS”
- More focus on project development and implementation
- Informed by risk assessment
- Must address integration with other plans and operations

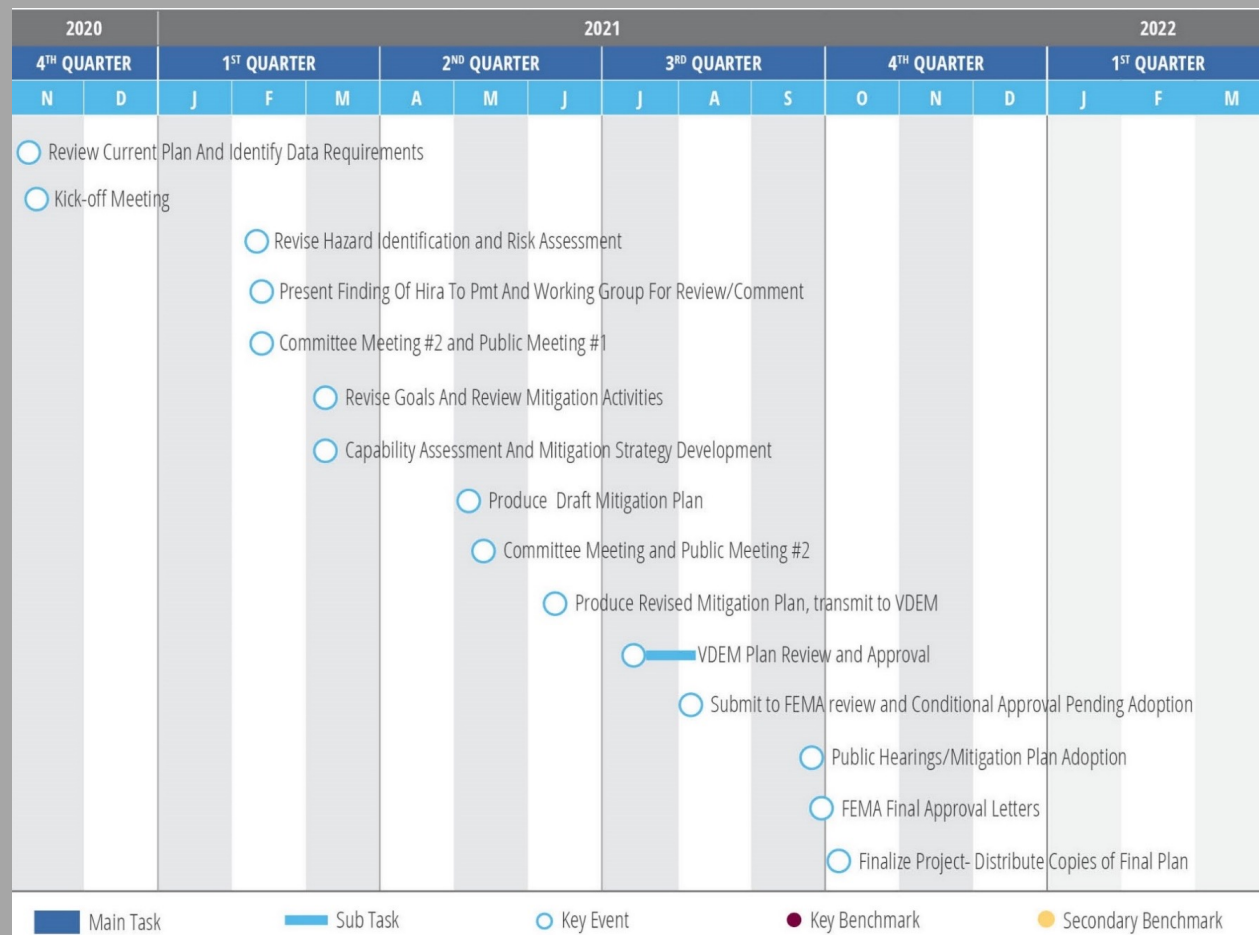


Next Steps

Next Steps

- Formalize MAC and LPTs
- Schedule LPT Web Meetings
- Prepare, distribute and complete:
 - Capabilities questionnaire
 - Final draft goals and objectives
 - 2016 Mitigation actions disposition
 - Final hazard ranking review
 - HIRA / GIS data questionnaire
 - Update critical facilities list
- Develop Story Map and Online Survey and distribute

Project Schedule



Hazard Ranking Discussion

(Time Permitting)

Q & A