

MIDDLE PENINSULA

Regional All Hazards Mitigation Plan Update

Local Planning Team – Meeting 2

February 8, 2021

Middle Peninsula All Hazards Mitigation Plan Update

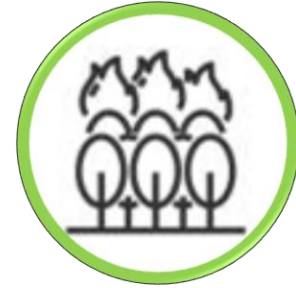
LOCAL PLANNING TEAM

Meeting 2

Monday, February 8, 2021 at 10am

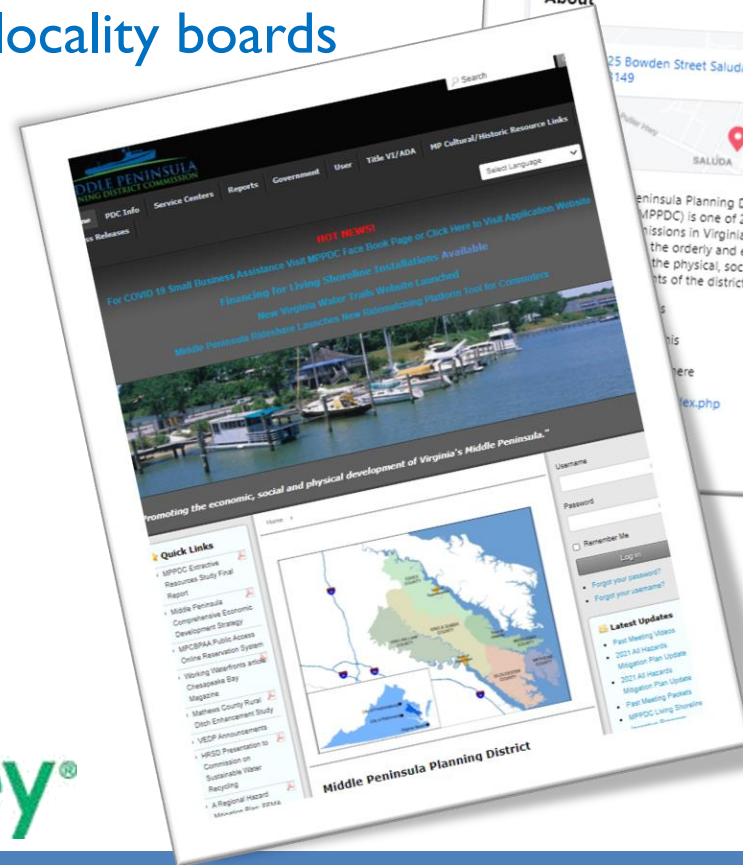
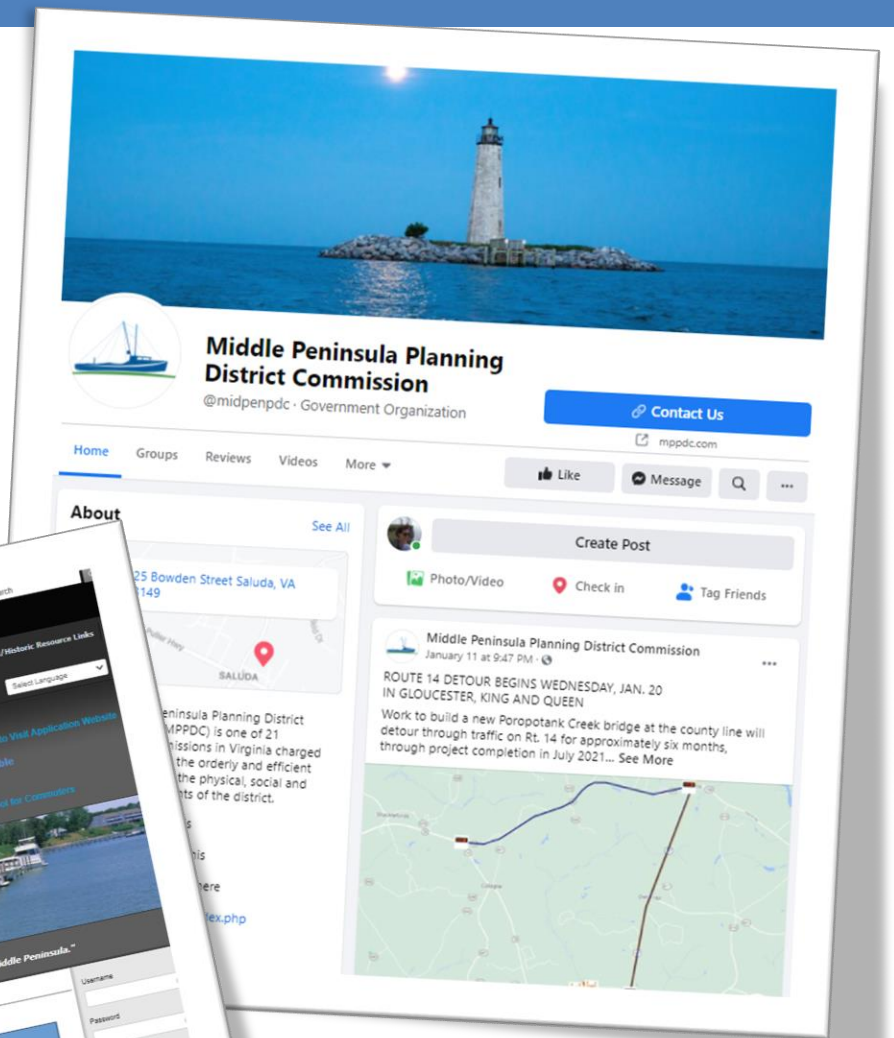
Agenda

1. Welcome & Local Planning Team Introductions
2. Follow ups from Meeting 1
 - Public Outreach
 - Hazus Contract with Dewberry
 - Community Profiles
3. Capability Assessment
4. Local Hazards
5. Next meeting(s)
 - Monday, February 22nd at 10am
 - Monday, March 15th at 10am
 - Monday, March 29th at 10am



Outreach Suggestions

- PDC meeting updates
- Monthly or bi-monthly updates to locality boards and councils
- MPPDC website
- Social Media
- Surveys
- Print Media



Proposed Outreach – 4 part

I

OUTREACH METHOD: Public Information Website (including Social Media Integration)

AVAILABILITY: Throughout the plan update.

BRIEF DESCRIPTION: A project information website will be hosted by the MPPDC and will be available to the general public and to members of the Local Planning Team for the duration of the project at the following web address:

<https://mppdc.com/index.php/service-centers/mandates/hazards>.

DETAILS: Specific resources to be included on this site include:

- Project information fact sheet
- Drafts of Regional All - Hazard Mitigation Plan sections
- List of Local Jurisdiction Leads
- List of project tasks and general timeline
- PowerPoint files from Local Planning Team meetings and minutes
- PDF of existing local hazard mitigation plans for reference during the plan update process
- Links to planning resources, including recently published FEMA hazard mitigation planning guidance
 - FEMA mitigation planning guidance
 - Local Mitigation Planning Handbook
 - Mitigation Ideas
 - Integrating Hazard Mitigation into Local Planning
- Social media integration including MPPDC Facebook

2

OUTREACH METHOD: Project Information Fact Sheet

AVAILABILITY: Throughout the plan update and on the public information website.

BRIEF DESCRIPTION: A 1-page (double-sided) project information fact sheet will be available online in PDF format for the duration of the project. The primary purpose of this document will be to provide information on the regional planning process and to provide project contact information and links for interested parties to engage in the planning effort. This resource will be available on the project information website. Printed copies may be made available on an as-needed basis.

DETAILS: Specific information to be provided in this fact sheet includes:

- Project overview (who, what, where, when, how)
- Overview of the regional hazard mitigation planning process, including:
 - Public outreach
 - Risk assessment
 - Capability assessment
 - Mitigation strategy development
 - Plan maintenance
 - Plan adoption
- Explanation of project leadership, including the Local Planning Team and project manager.
- Project schedule
- Contact information and links to project information website
- Project graphics/illustrations

3

OUTREACH METHOD: Print Media

AVAILABILITY: Periodically through the plan update.

BRIEF DESCRIPTION: MPPDC staff will work with Consociate Media write press releases that describe the AHMP Update process, timeline, and establishing expectations of the plan.

DETAILS: As local newspapers are a widely used source of communication within the Middle Peninsula, MPPDC staff will work with Consociate Media and the local newspapers (Gazette Journal, Southside Sentential, County Courier) to get articles printed about the AHMP update. Topics may include:

- An introduction to the Update – Who, What, Where, Why of AHMP
- Assessing Hazards – Local Assessment and HAZUS
- Public Comment Period
- Local Adoption



4

OUTREACH METHOD: Public Participation Survey

AVAILABILITY: Periodically throughout the plan update

BRIEF DESCRIPTION: An online public participation survey will be hosted by MPPDC using the SurveyMonkey and will be open to the public. The primary purpose of this survey will be to solicit input about local hazard concerns and mitigation actions of interest, and feedback on plan updates. The survey will be made accessible through hyperlinks posted on the project information website, locality websites, and circulated via email, Facebook, etc. The feedback received will be evaluated and incorporated into the Local Planning Team’s decision-making process and the final plan.

DETAILS: Types of specific questions to be asked as part of this survey may include:

- Personal history with natural hazards
- Natural hazard concerns
- Perception of vulnerable community assets
- Importance of community assets
- Priorities concerning natural hazard preparedness
- Steps local government can take to reduce natural hazard risk
- Types of mitigation activities deemed important
- Personal interest in natural hazard mitigation
- Effective ways to communicate with residents
- Location in the floodplain
- Questions regarding flood insurance
- Personal actions to mitigate property
- Mitigation activities planned for the respondent’s household
- Location within the planning area
- Age (optional)*
- Gender (optional)*
- Highest level of education (optional)*
- Length of time living in the planning area
- Ownership of property versus rental status
- Type of dwelling
- Open comments**

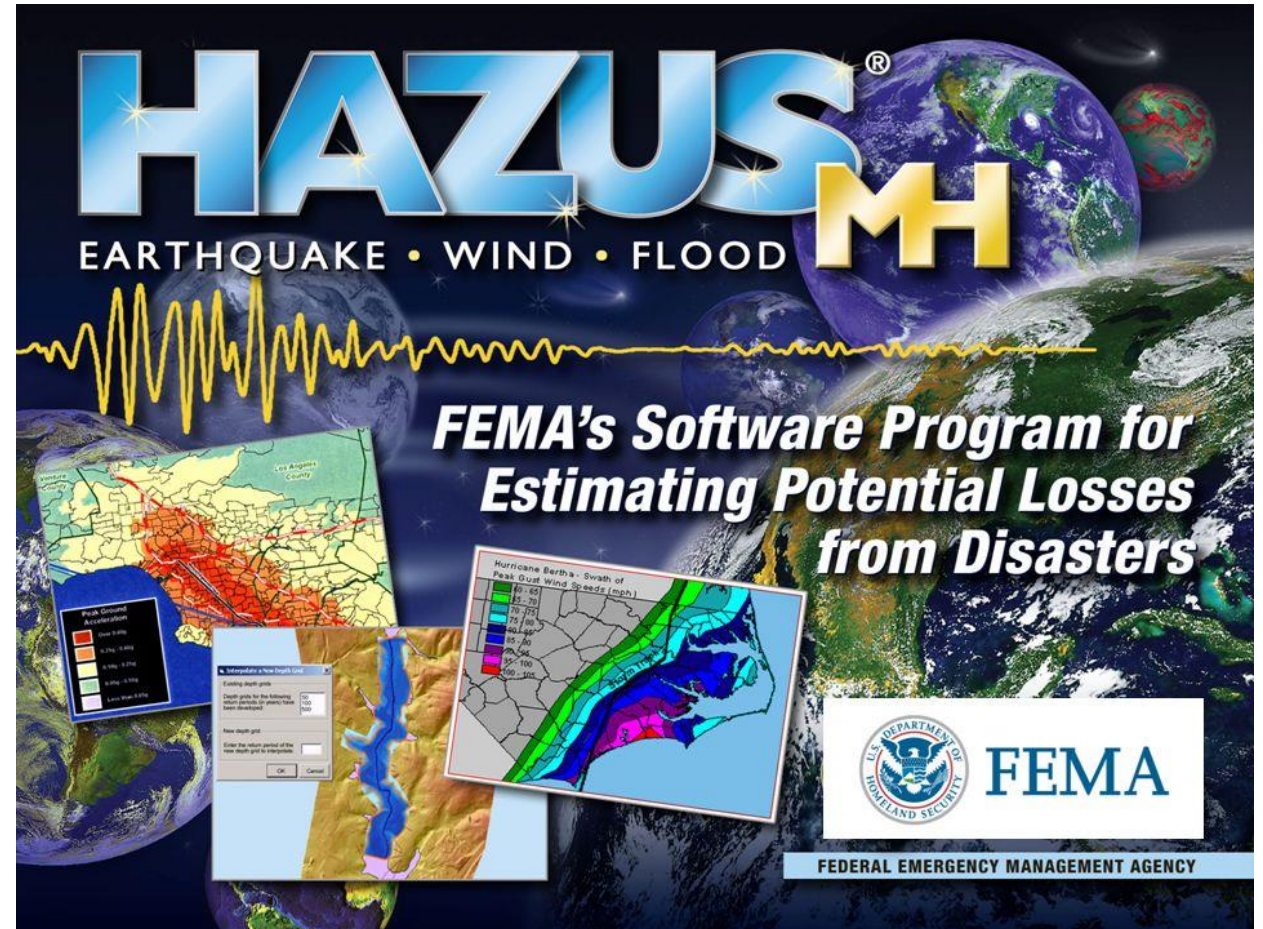
** All information will be kept strictly confidential*

*** Information will be processed and summarized by MPPDC in order to produce summary statistics and summary responses*



HAZUS

- Waiting for Dewberry to update proposal with sea level rise scenarios
- 4-month process
- MPPDC staff will keep the LPT Updated along the way



HAZUS[®]
EARTHQUAKE • WIND • FLOOD **MH**

*FEMA's Software Program for
Estimating Potential Losses
from Disasters*

Los Angeles County

Peak Ground Acceleration

0.00 - 0.10
0.10 - 0.20
0.20 - 0.30
0.30 - 0.40
0.40 - 0.50

Enter the value (in feet) of the sea depth for this location.

OK Cancel

Hurricane Bertha - Swath of Peak Gust Wind Speeds (mph)

60 - 65
70 - 75
75 - 80
80 - 85
85 - 90
90 - 95
95 - 100
100 - 105

U.S. DEPARTMENT OF HOMELAND SECURITY **FEMA**

FEDERAL EMERGENCY MANAGEMENT AGENCY

Capability Assessment

- Each community has a unique set of capabilities including:
 - Authorities
 - Policies
 - Programs
 - Staff
 - Funding
 - Other resources
- Identifying capabilities helps to:
 - accomplish mitigation strategies
 - reduce long-term vulnerability.
 - Reduce disaster losses
 - Identify gaps that may inadvertently increase risks



Capabilities

- **Planning and regulatory** – based on implementation or ordinances, polices, local laws and State statues, and plans and program that relate to guiding and managing growth and development
 - **EXAMPLES:** comprehensive land use plans, capital improvement programs, transportation plans, enforcement of ordinances and building codes
- **Administrative and technical** – community’s staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. Also it’s the ability to access and coordinate the resources (public or private sector)
- **Financial** – the resources that a jurisdiction has access to or is eligible to use to fund mitigation actions
 - **EXAMPLES:** local, State, and Federal resources; recurring local sources like property, sales and income taxes; grant funding
- **Education and outreach** – programs and methods already in place within your community that could be used to deliver mitigation strategies
 - **EXAMPLES:** fire safety programs, hazard awareness campaigns

Capability Worksheet Review

FEMA REGION III
HAZARD MITIGATION PLAN GUIDANCE
Community Capability Assessment Worksheet



JURISDICTION: _____

PLANNING AND REGULATORY

Planning and regulatory capabilities are plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards.

PLANS AND POLICIES

Indicate if the jurisdiction has the following plans or policies in place.

- If YES, complete the remaining rows in the table to the extent possible.
- If NO, refer to the planning team to consider development of the plan/policy as part of the mitigation strategy
- If you do not know (IDK), see Attachment A for recommended agencies or organizations to contact.

In the "Relation to Hazard Mitigation" field, answer the following general questions:

- Does the plan/policy address hazard impacts? If so, how? For example, does the plan/policy include limitations to building in areas of risk, noted by the hazard mitigation plan? If so, what are those restrictions?
- Does the plan/policy identify projects that could be included in the mitigation strategy?
- Can the plan/policy be used to implement mitigation actions?
- How can the plan/policy be expanded and improved to reduce risk?

In addition, see Attachment A for additional questions or considerations for specific plans or policies.

COMPREHENSIVE/MASTER LAND USE PLAN	Overall policy guide for future community growth and development.
Is this Plan/Policy in Place?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> IDK (see Attachment A)
Title:	
Author/Owner:	
Effective Date:	
Next Scheduled Update (if known):	
Relation to Hazard Mitigation:	

National Flood Insurance Program Survey

- Survey to capture locality's progress made on implementing the National Flood Insurance Program (NFIP)
- **Community Rating System (CRS)** - a voluntary incentive program that recognizes and encourages community floodplain management practices that exceed the minimum requirements of the NFIP

Hazard and Risk Assessment

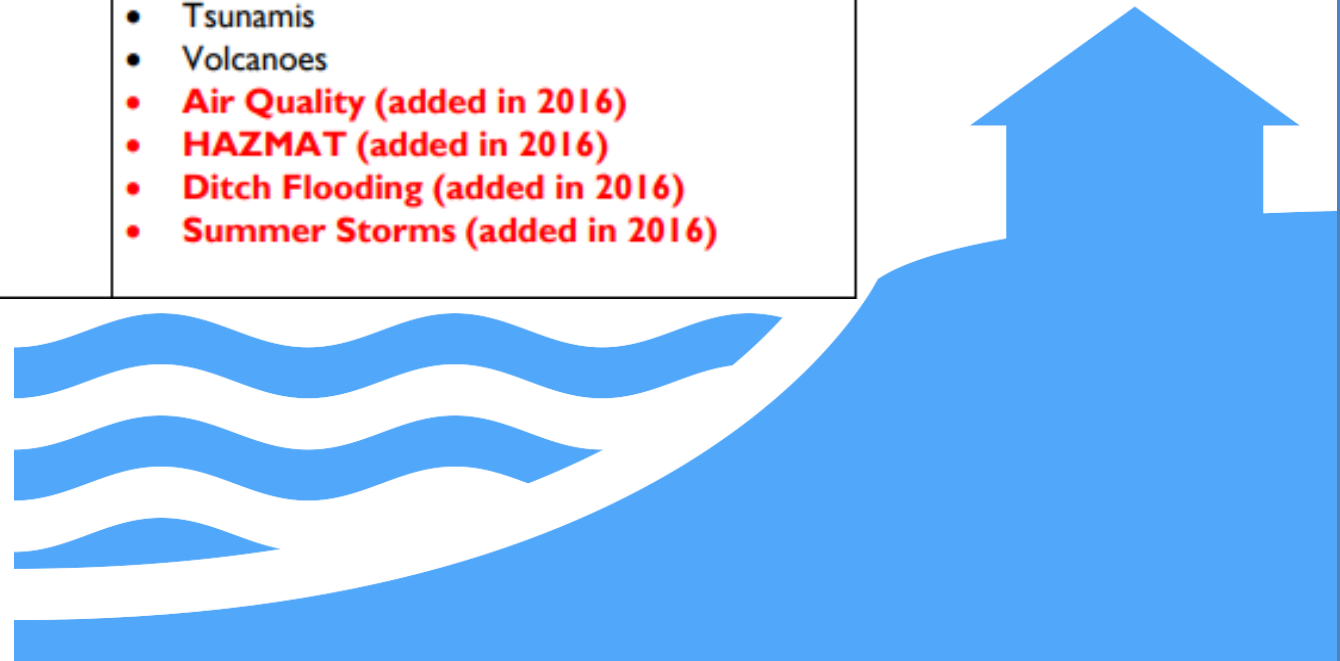


Local Hazard Identification

Table 2: List of Hazards. *The LPT identified the following as hazards that may impact the region.*

<ul style="list-style-type: none">• Hurricanes• Ice Storms• Tornadoes• Coastal Flooding/Nor-easters• Coastal/Shoreline Erosion• Sea Level Rise (added in 2010)• Snow Storms• Riverine Flooding• Wildfires• High Winds/Windstorms• Dam Failure• Droughts• Lightning	<ul style="list-style-type: none">• Earthquakes• Shrink-swell Soils• Extreme Cold• Extreme Heat• Land Subsidence/Karst• Landslides• Tsunamis• Volcanoes• Air Quality (added in 2016)• HAZMAT (added in 2016)• Ditch Flooding (added in 2016)• Summer Storms (added in 2016)
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- Based on comments from FEMA:
 - Remove volcanoes



Local vs. State Hazards

Middle Peninsula 2016 AHMP

- **Winter Storms (ice)** (Hazard Rank = High)
- **Coastal Flooding/Nor-easters** (Hazard Rank = High)
- **Lightning** (Hazard Rank = High)
- **Hurricanes** (Hazard Rank = High)
- **Summer Storms (added in 2016)** (Hazard Rank = High)
- **Tornadoes** (Hazard Rank = Moderately Critical)
- **Winter Storms (Snow)** (Hazard Rank = Moderately Critical)
- **Coastal/shoreline Erosion** (Hazard Rank = Moderately Critical)
- **Wildfires** (Hazard Rank = Moderately Critical)
- **Riverine Flooding** (Hazard Rank = Moderately Critical)
- **Sea level Rise** (Hazard Rank = Moderately Critical)
- **High winds/Windstorms** (Hazard Rank = Moderately Critical)
- **HAZMAT (added in 2016)** (Hazard Rank = Moderately Critical)
- **Ditch Flooding (added in 2016)** (Hazard Rank = Moderately Critical)
- **Droughts** (Hazard Rank = Non-Critical)
- **Extreme Cold** (Hazard Rank = Non-Critical)
- **Extreme Heat** (Hazard Rank = Non-Critical)
- **Dam failure** (Hazard Rank = Non-Critical)
- **Earthquakes** (Hazard Rank = Non-Critical)
- **Air Quality (Added in 2016)** (Hazard Rank = Non-Critical)
- **Shrink-Swell Soils** (Hazard Rank = Non-Critical)
- **Landslides** (Hazard Rank = Non-Critical)
- **Land Subsidence/Karst** (Hazard Rank = Non-Critical)
- **Tsunamis** (Hazard Rank = Non-Critical)
- **Volcanoes** (Hazard Rank = Non-Critical)

VA Hazards Mitigation Plan

- **Flood** (Hazard Rank = High)
- **Tornado** (Hazard Rank = Medium-High)
- **Non-Rotational Wind** (Hazard Rank = Medium)*
- **Winter Weather** (Hazard Rank = Medium)*
- **Communicable Disease** (Hazard Rank = Medium-Low)*
- **Drought** (Hazard Rank = Medium-Low)
- **Earthquake** (Hazard Rank = Medium-Low)
- **Landslide** (Hazard Rank = Medium-Low)
- **Wildfire** (Hazard Rank = Medium-Low)
- **Flooding Due to Impoundment Failure** (Hazard Rank = Low)
- **Karst (Sinkholes)** (Hazard Rank = Low)
- **Land Subsidence** (Hazard Rank = Low)
- **Solar Storm/Flare** (Hazard Rank = Low)*



HAZARD AND VULNERABILITY ASSESSMENT TOOL

**MIDDLE PENINSULA HAZARD AND VULNERABILITY ASSESSMENT TOOL
NATURAL HAZARDS -- SUMMARY SHEET**

**Priority
Worksheet for
Hazards**

EVENT	PROBABILITY	HUMAN IMPACT	PROPERTY AND FACILITY IMPACT	BUSINESS IMPACT	Mitigation Options	RISK	RANKING
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury to public and responders</i>	<i>Physical losses and damages</i>	<i>COOP and Interruption of services</i>	<i>Pre-Planning</i>	<i>Relative Threat</i>	<i>Based only on probability and threat</i>
	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 - 100%
Winter Storms (Ice)	3	3	2	2	2	75%	1
Lightning	3	2	2	2	1	58%	2
Hurricanes	2	2	3	2	2	50%	3
Coastal Flooding	3	2	3	2	2	75%	1
Summer Storms	3	2	2	1	1	50%	3
Tornados	2	2	2	2	2	44%	4
Coastal/Shoreline Erosion	2	2	2	1	2	39%	5
Winter Storm (Snow)	2	2	2	2	2	44%	4
Wildfire	2	2	2	1	2	39%	5
Riverine Flooding	2	2	2	1	2	39%	5
Sea Level Rise	2	1	2	1	2	33%	6
High Wind/Windstorms	2	2	2	1	1	33%	6
HAZMAT	2	2	2	1	1	33%	6
Drought	2	1	2	1	1	28%	7
Extreme Cold	2	2	1	1	1	28%	7
Extreme Heat	2	2	1	1	1	28%	7
Ditch Flooding	2	1	2	1	2	33%	6
Dam Failure	1	1	1	1	1	11%	8
Earthquake	1	1	1	1	1	11%	8
Air Quality	1	1	1	1	1	11%	8
Shrink-Swell Soils	1	0	1	0	1	6%	9
Landslides	1	1	1	0	0	6%	9
Land Subsidence/Karst	1	0	0	0	0	0%	10
Tsunami	0	0	0	0	0	0%	10
Volcano	0	0	0	0	0	0%	10
AVERAGE	1.76	1.44	1.56	1.04	1.24	32%	

*Threat increases with percentage.

UNMITIGATED RISK=	PROBABILITY * IMPACT	
0.32	0.70	0.46

Spreadsheet developed by:

Modifications by:

2016 Hazard Ranking

- | | |
|------------------------------|-------------------------|
| 1. Winter Storms (ice) | 6. Ditch Flooding |
| ① Coastal Flooding | ⑦ Drought |
| 2. Lightning | 7. Extreme Cold |
| 3. Hurricanes | 7. Extreme Heat |
| 3. Summer Storms | ⑧ Dam Failure |
| ④ Tornadoes | ⑧ Earthquakes |
| 4. Winter Storms (snow) | 8. Air Quality |
| 5. Coastal/Shoreline Erosion | 9. Shrink-Swell Soils |
| ⑤ Wildfire | 9. Landslide |
| 5. Riverine Flooding | ⑩ Land Subsidence/Karst |
| 6. Sea Level Rise | 10. Tsunami |
| 6. High Wind/Windstorms | 10. Volcano |
| 6. HAZMAT | |

Upcoming Trainings

➤ **VDEM and DCR**

Substantial Damage Estimator Training with Crisis Track

Region 1: February 24, 2021, 2-3:30pm

Region 5: February 17, 2021, 2-3:30pm

Crisis Track is web-based tool that VDEM has purchased for local use statewide that provides a solution for both assessments and has an interface with FEMA's substantial damage estimator tool. This is a resource to make both processes more streamline and to reduce the administrative burden of assessing damages.

To register, visit: Virginia Learning Center - <https://covlc.virginia.gov/>

➤ **FEMA Region III – Coffee Break**

Connecting Climate Change to Hazard Mitigation Planning

March 17, 2021 11AM ET - 12PM ET

Communities throughout FEMA Region 3 are no stranger to the increasing frequency and severity of natural disasters caused by climate change. Intense storms, heat waves, and extreme flooding all significantly challenge our communities and result in cascading impacts that we need to better prepare for. This webinar will explore where to get data on climate change and how to effectively support mitigation through incorporating this data into hazard mitigation planning efforts.

To register, visit: <https://femaregion3coffeebreaks.eventbrite.com>

Next Meetings

- Suggested:
 - Monday, February 22nd 10am
 - Monday, March 15th 10am
 - Monday, March 29th 10am



Contact

Jackie Rickards
Senior Planning Project Manager
Email: jrickards@mppdc.com

