



MIDDLE PENINSULA

Regional All Hazards Mitigation Plan Update

Local Planning Team – Meeting 3

February 22, 2021

Middle Peninsula All Hazards Mitigation Plan Update

LOCAL PLANNING TEAM

Meeting 3

Monday, February 22, 2021 at 10am

Agenda

1. Welcome & Local Planning Team Introductions
2. Follow ups from Meeting 2
 - Dewberry Contract
 - Capability Assessment and NFIP Survey
3. Hazards
 - Survey Results and Recommendations
 - Hazards Assessment
4. Public Survey Review
5. Mitigation Strategies
6. Next meeting(s)
 - Monday, March 15th at 10am
 - Monday, March 29th at 10am

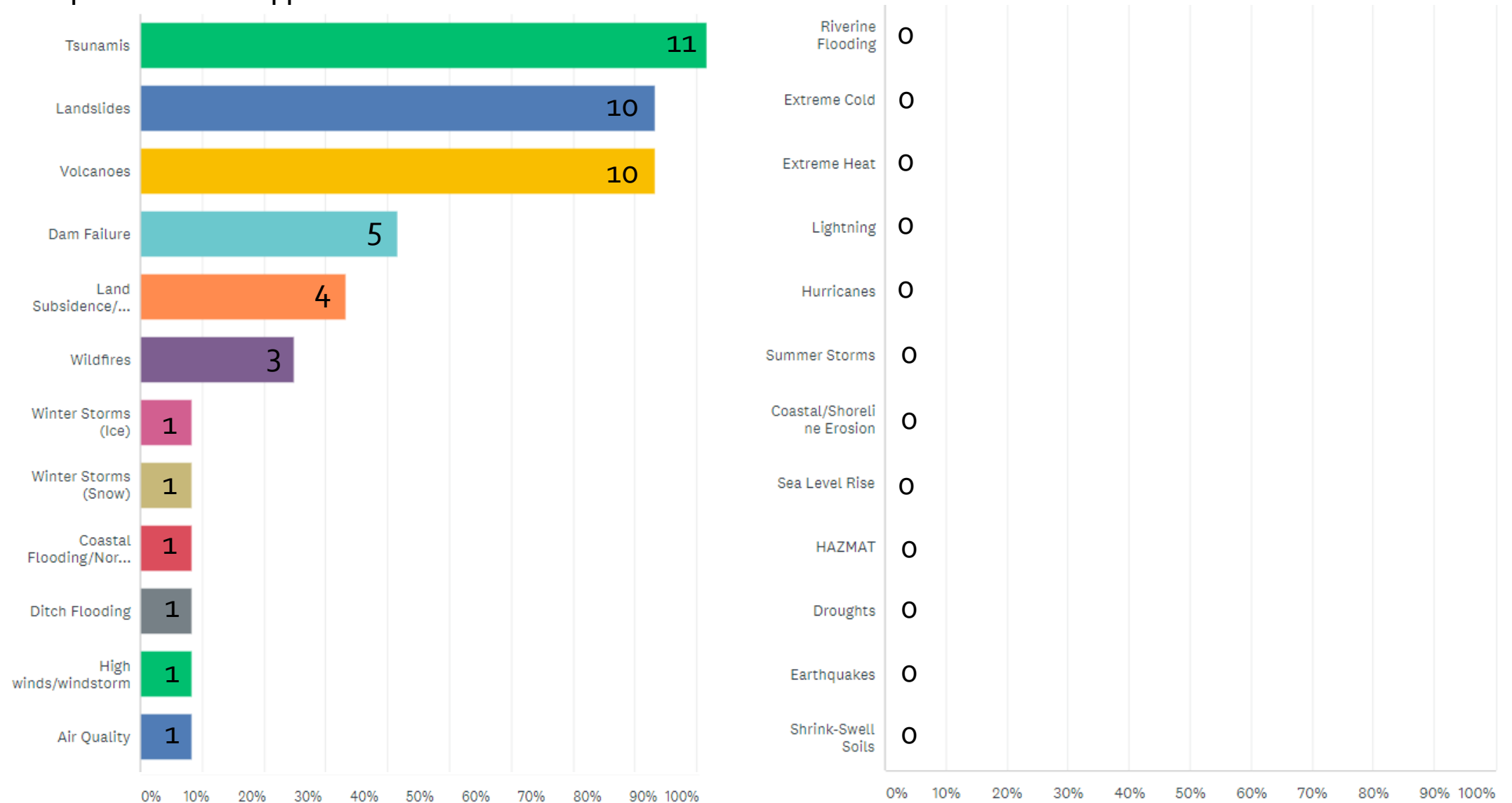


Locality and Tribe HAZARDS

SURVEY

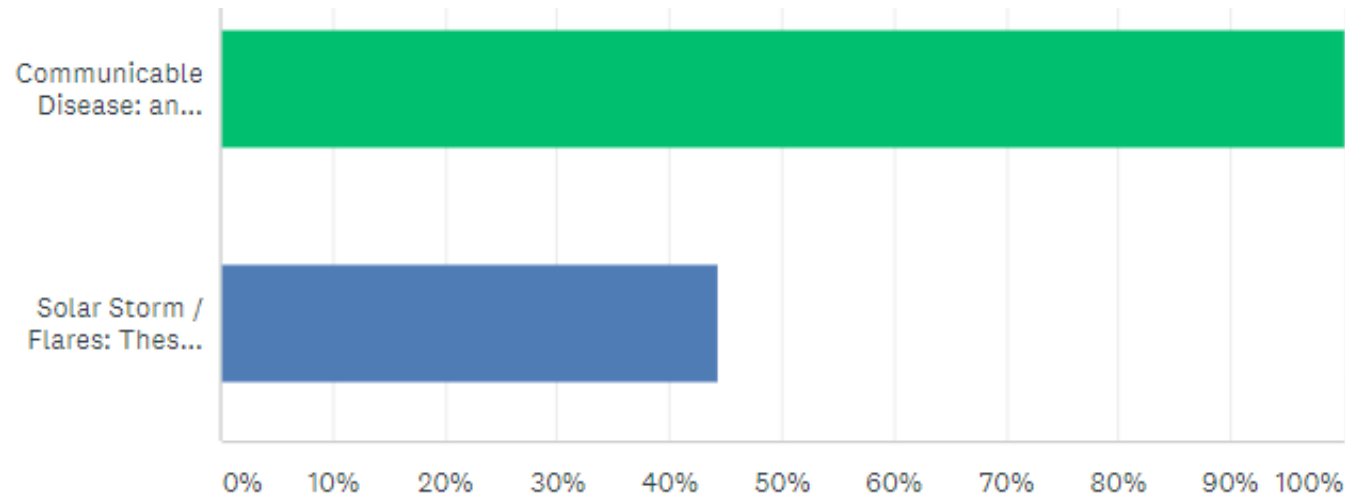
Question: Below is a list of hazards listed in the 2016 AHMP. Please select up-to four hazards that you consider having little or no vulnerability/risk to your locality.

Results: 12 Respondents 0 Skipped



Question: The following hazards are within the Virginia Hazards Mitigation (2018), but not currently in the 2016 AHMP. Please check the hazards below that you may want to see added to the 2021 Middle Peninsula AHMP update.

Results: 9 Respondents 3 Skipped



ANSWER CHOICES	RESPONSES
▼ Communicable Disease: an illness caused by an infectious agent or its toxic products that develops when the agent or its product is transmitted from an infected person, animal or arthropod to a susceptible host. Infectious agents include viruses, bacteria, fungi, parasites, or aberrant proteins called prions.	100.00% 9
▼ Solar Storm / Flares: These storms generally occur due to eruptions on the sun known as solar flares. They have the potential to disrupt use of technology and magnetic fields on Earth.	44.44% 4

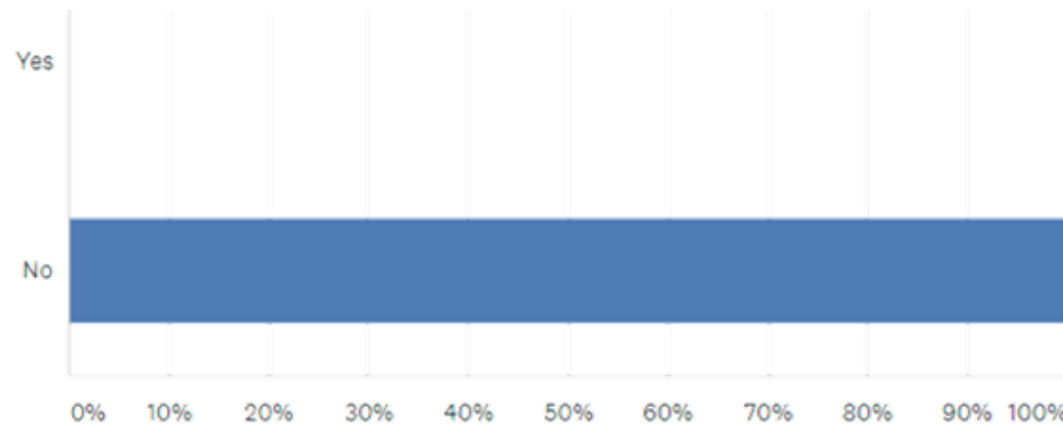
Total Respondents: 9

Question: Based on the list 2016 hazards, I have consolidated some hazards so they appear under a single hazard title. Please review the below list of hazards that I have consolidated.

- Winter Weather – this includes Winter Storm (ice) and Winter Storm (snow) hazards identified in the 2016 AHMP
- Flooding – this includes coastal, riverine, and ditch flooding hazards identified in the 2016 AHMP
- Extreme Temperatures - this includes the extreme cold and extreme heat hazards identified in the 2016 AHMP.

Do you object to this consolidation?

Results: 12 Respondents 0 Skipped



ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	100.00% 12
Total Respondents: 12	

Comments:

- Everything that can be consolidated should be for simplicity.
- Concern with flooding is often VDEM would not allow ditch flooding as an acceptable “flood”. I have no objection to consolidation but desire clarity on whether NFIP would have issue

Question: Additional comments – feel free to share additional thoughts about hazards impacting your locality or share any other hazards you would like to see in the AHMP update.

Results: 1 Respondents | 1 Skipped

I agree with following the Virginia Hazards Mitigation (2018) outline

2/10/2021 2:51 PM

[View respondent's answers](#)

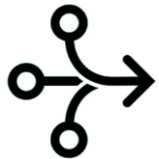
[Add tags](#) ▼

FINAL RECOMMENDATIONS – based on survey results



REMOVE

- Tsunamis, Landslides, and Volcanoes from the Hazards list



CONSOLIDATE

- Winter Storm (ice) and Winter Storm (snow) to **Winter Weather**
- Coastal, riverine, and ditch flooding hazards to **Flooding**
- Extreme cold and extreme heat to **Extreme Temperatures**



ADD

- Communicable Diseases to Hazards list



2021 Local Hazards List

- Winter Weather (ice & snow)
- Flooding (coastal, riverine, and ditch)
- Lightning
- Hurricanes
- Summer Storms
- Tornadoes
- Coastal/shoreline Erosion
- Wildfires
- Sea level Rise
- High winds/Windstorms
- HAZMAT
- Droughts
- Extreme Temperatures (cold & heat)
- Dam failure
- Earthquakes
- Air Quality
- Shrink-Swell Soils
- Landslides
- Land Subsidence/Karst
- Communicable Diseases



LOCAL HAZARD ASSESSMENT

Kaiser Permanente Hazard Vulnerability Assessment tool

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

**Priority
Worksheet for
Hazards**

EVENT	PROBABILITY					UNMITIGATED	
		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>
SCORE	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:

PUBLIC SURVEY REVIEW

This survey requests information on local hazards and your thoughts on mitigation actions.

MITIGATION STRATEGIES

Mitigation Strategies

- Goals, objectives, and past mitigation actions/strategies to reduce overall risk from hazards. For example:



- Primary types of mitigation actions:
 - ❖ **Local plans and regulations**
 - ❖ **Structure and Infrastructure projects** (*Elevations, acquisitions, retrofits, culverts, safe rooms, etc.*)
 - ❖ **Natural systems protection** (*sediment and erosion control, forest management, conservation easements, etc.*)
 - ❖ **Education programs** (*real estate disclosure statements, mailings, websites, radio, etc.*)
 - ❖ **Preparedness and response actions** (*mutual aid agreements, purchasing equipment, etc.*)

Reviewing Mitigation Strategies

- Section 8 of the 2016 AHMP (page 301):
https://mppdc.com/articles/reports/AHMP_2016_FEMA_Approved_RED.pdf
- Note the status of the strategy – completed, in progress, on-going, by request
- Note potential for new goals/objectives/actions



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, March 15th 10am
 - Monday, March 29th 10am



Contact

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