

2023 Calvert County Mitigation Actions		MITIGATION ACTION EVALUATION CRITERIA CONSIDERATIONS (+)											TOTAL SCORE
Action #	Action	Life Safety	Property Protection	Technical	Political	Legal	Environmental	Social	Administrative	Local Champion	Historic Preservation	Other Community Objectives	
1.1.1	Continue to support a regular maintenance program for emergency generators at the county's critical facilities and community lifeline facilities.	+	N	+	+	+	N	+	+	+	N	+	8 (+), 3 (N), 0 (-)
1.1.2	Continue to conduct routine inspections, regular maintenance, and annual tests in all emergency communications equipment, public address systems, and hazard alert sirens to ensure unhindered operation during an emergency event.	+	N	+	+	+	N	+	+	+	N	+	8 (+), 3 (N), 0 (-)
1.1.3	Continue to ensure that a planned, coordinated, and effective public warning dissemination program exists at the local level and is well maintained.	+	N	+	+	+	N	+	+	+	N	+	8 (+), 3 (N), 0 (-)
1.1.4	Continue to maintain early warning systems through a variety of tools for designated critical facilities and community lifeline facilities.	+	N	+	+	+	N	+	+	+	N	+	8 (+), 3 (N), 0 (-)
1.1.5	Implement FEMA's Integrated Public Alert and Warning System (IPAWS) for sudden onset hazards such as tornados, thunderstorms, or flash floods.	+	+	+	+	+	N	+	+	+	N	+	9 (+), 2 (N), 0 (-)
1.1.6	Continue to prepare for and coordinate sheltering during extreme weather events, including but not limited to vulnerable populations.	+	N	+	+	+	N	+	+	+	N	+	8 (+), 3 (N), 0 (-)
1.2.1	Continue to identify at-risk populations (elderly, homeless, persons with physical or mental disabilities) to various hazards and maintain records of those vulnerable populations and the types of assistance they may need before, during, or after a hazard.	+	N	+	+	+	N	+	+	+	N	+	8 (+), 3 (N), 0 (-)
1.2.2	Utilize existing technical proficiency at the local level for conducting post-disaster damage assessments.	N	+	+	+	+	+	+	-	+	+	+	9 (+), 1 (N), 1 (-)
1.2.3	Continue to maintain and replace county owned critical infrastructure and community lifelines.	+	+	+	+	+	+	+	-	+	+	+	10 (+), 0 (N), 1 (-)

1.3.1	Develop a program for identification of areas that will be economically impacted by a hazard event.	N	+	+	+	+	N	+	+	+	N	+	8 (+), 3 (N), 0 (-)
1.3.2	Examine and research cybersecurity directives, best practices, and resources from the United States Department of Homeland Security's (US DHS) Cybersecurity & Infrastructure Security Agency (CISA) to lessen the impact of a potential cybersecurity event at the county.	+	+	+	+	+	+	+	+	+	+	+	11 (+), 0 (N), 0 (-)
1.3.3	Implement any directives, best practices, or resources from CISA that would increase the resiliency of Calvert County from cyberterrorism and cyberattack.	+	+	+	+	+	+	+	+	+	+	+	11 (+), 0 (N), 0 (-)
1.3.4	Continue to support county-wide response to the opioid epidemic.	+	N	+	+	+	+	+	+	+	N	+	9 (+), 2 (N), 0 (-)
1.3.5	Continue to prepare for and coordinate response to extreme heat and cold weather events.	+	+	+	+	+	N	+	+	+	+	+	10 (+), 1 (N), 0 (-)
1.3.6	Continue to support the provision of county-wide mental health resources, education, and response.	+	+	+	+	+	N	+	+	+	+	+	10 (+), 1 (N), 0 (-)
1.3.7	Continue to support the implementation of critical incident stress management resources for career and volunteer first responders in the county.	+	+	+	+	+	N	+	+	+	+	+	10 (+), 1 (N), 0 (-)
1.4.1	Conduct an assessment of Calvert County emergency shelter locations and equipment at those shelters.	+	N	+	+	+	N	+	+	+	N	+	8 (+), 3 (N), 0 (-)
1.4.2	Cross training county staff for emergency response or a hazard specific position during a disaster event.	+	+	+	+	+	+	+	-	+	+	+	10 (+), 0 (N), 1 (-)
1.5.1	Research funding with the towns of Chesapeake Beach and North Beach to reinforce critical facilities and community lifelines including but not limited to emergency service locations, hospitals, and utility infrastructure.	+	+	+	+	+	+	+	N	+	+	+	10 (+), 1 (N), 0 (-)
2.1.1	Ensure reconstruction activities are compliant with NFIP substantial damage/improvement requirements and existing codes.	+	+	+	+	+	+	+	+	+	+	+	11 (+), 0 (N), 0 (-)
2.1.2	Continue to provide technical assistance to local residents in applying for hazard mitigation assistance for acquisition/demolition, elevation, and localized flood risk reduction.	+	+	+	+	+	+	+	N	+	+	+	10 (+), 1 (N), 0 (-)

2.1.3	Continue to coordinate with the County, municipality and/or the Maryland Department of Transportation on the potential feasibility of replacing, removing, or enlarging those bridge and culvert stream crossings that are unable to pass the 10-year frequency flood flow.	+	+	+	+	+	+	+	N	+	+	+	10 (+), 1 (N), 0 (-)
2.2.1	Support the identification and implementation of stormwater management projects for flood risk reduction.	+	+	+	+	+	+	+	-	+	+	+	10 (+), 0 (N), 1 (-)
2.3.1	Reduce vulnerability to wildfires by providing public education on increasing buffers and defensible spaces.	+	+	+	+	+	+	N	+	+	+	+	10 (+), 1 (N), 0 (-)
2.3.2	Make recommendations to the state realtor board to develop a disclaimer for developing along the cliffs.	+	+	+	N	+	+	-	+	+	+	+	9 (+), 1 (N), 1 (-)
2.3.3	Collaborate on environmental features map for cliff mapping by category.	+	+	+	+	+	+	+	+	+	+	+	11 (+), 0 (N), 0 (-)
3.1.1	Update the Comprehensive Plan's Hazard Mitigation Section and its assessment of hazard vulnerability and mitigation actions.	+	+	+	+	+	+	N	+	+	+	+	10 (+), 1 (N), 0 (-)
3.1.2	Develop and implement a post-disaster recovery plan.	+	+	+	+	+	+	+	+	+	+	+	11 (+), 0 (N), 0 (-)
3.1.3	Continue to ensure County and municipal compliance with local Stormwater Management Plans.	+	+	+	+	+	+	+	N	+	+	+	10 (+), 1 (N), 0 (-)
3.1.4	Coordinate with town centers to integrate the Calvert County hazard mitigation plan into the town center master plans.	+	+	+	+	+	+	N	+	+	+	+	10 (+), 1 (N), 0 (-)
3.1.5	Continue to ensure compliance with approved Erosion and Sedimentation Control Plans and continue to work with local farmers to implement BMPs.	N	+	+	+	+	+	+	+	+	+	+	10 (+), 1 (N), 0 (-)
3.1.6	Integrate a hazard mitigation section into the Chesapeake Beach and North Beach Comprehensive Plans.	+	+	+	+	+	+	N	-	N	+	+	8 (+), 2 (N), 1 (-)
4.1.1	Research information on structure retrofitting to meet standards related to high-risk hazards.	+	+	+	N	+	+	+	-	+	+	+	10 (+), 1 (N), 0 (-)
5.1.1	Work with local radio stations to promote continuity of public awareness and disaster preparedness.	+	+	+	+	+	N	+	-	+	+	+	9 (+), 1 (N), 1 (-)

5.1.2	Distribute a public summary of this hazard mitigation plan including relevant information on hazard-prone areas, hazard specific “do’s” and “don’ts” and emergency contact information.	+	+	+	+	+	+	+	+	+	N	+	10 (+), 1 (N), 0 (-)
5.1.3	Continue to encourage Calvert County citizens to be better prepared to face hazards by promoting and offering Community Emergency Response Team (CERT) training/classes to increase the number of citizen responders in the municipalities and population centers.	+	+	+	+	+	N	+	-	+	+	+	9 (+), 1 (N), 1 (-)
5.1.4	Conduct seminars as requested in schools on various hazards that could threaten the County and provide informational packets for students to take home.	+	N	+	+	+	N	+	-	+	N	+	7 (+), 3 (N), 1 (-)
5.1.5	Develop a more formal program with Calvert County schools for presentations related to high-risk hazards.	+	N	+	N	+	N	N	-	+	N	+	5 (+), 5 (N), 1 (-)
5.1.6	Utilize support to update training and educational materials on hazard mitigation including presentations and hand-outs.	+	+	+	+	+	+	+	-	+	+	+	10 (+), 0 (N), 1 (-)
5.1.7	Outreach to other community groups as requested on hazard mitigation and preparedness.	+	+	+	+	+	+	+	-	+	+	+	10 (+), 0 (N), 1 (-)
5.1.8	Maintain the CalvertPrepare mobile app to present hazard education and preparedness information to all stakeholders in the county.	+	+	+	+	+	N	+	+	+	N	+	9 (+), 2 (N), 0 (-)
5.1.9	Develop mailings for category one and two cliff adjacent properties annually for residents and property owners in Calvert County.	+	+	+	-	+	+	-	+	+	N	+	8 (+), 1 (N), 2 (-)
5.1.10	Develop additional mailers for local lenders and realtors in Calvert County related to cliffs.	+	+	+	-	+	+	-	+	+	N	+	8 (+), 1 (N), 2 (-)
5.1.11	Develop educational videos for cliff vulnerability across the county.	+	+	+	-	+	+	-	+	+	N	+	8 (+), 1 (N), 2 (-)
5.1.12	Develop annual press releases on cliff vulnerability and distribute to the public.	+	+	+	-	+	+	-	+	+	N	+	8 (+), 1 (N), 2 (-)
5.1.13	Develop an Emergency Management "Brand" to be the face of Emergency Preparedness and provide a trusted and reliable source of information to the public. Raise awareness of the County's Emergency Management Division and their roles and responsibilities.	+	+	+	+	+	+	+	-	+	+	+	10 (+), 0 (N), 1 (-)

5.1.14	Conduct data analytics of the County's emergency websites and media outlets to track the reach and efficacy of information including news posts, bulletins, and reading materials.	+	N	N	+	+	+	+	+	+	N	+	8 (+), 3 (N), 0 (-)
5.1.15	Identify and coordinate public information programs and events such as contests and festivals with public and private partners.	+	+	+	+	+	+	+	-	+	N	+	9 (+), 1 (N), 1 (-)
5.2.1	Continue a community-specific stormwater maintenance program consisting of routine inspections and subsequent debris removal.	N	+	+	N	+	+	+	-	+	+	+	8 (+), 2 (N), 1 (-)
5.3.1	Develop a presentation for structural retrofitting and actions homeowners can take to address protection in the event of a flooding hazard event.	+	+	+	+	+	+	+	+	+	N	+	10 (+), 1 (N), 0 (-)
5.4.1	Research funding that is available for hazard mitigation in Calvert County and Maryland.	+	+	+	+	+	+	+	+	+	+	+	11 (+), 0 (N), 0 (-)
5.5.1	Work with local businesses and local industry owners to develop a continuity of operations plan.	+	+	+	+	+	+	+	-	+	+	+	10 (+), 0 (N), 1 (-)
5.6.1	Recommend to the Board of Education to develop and implement a natural hazards awareness curriculum.	+	N	+	+	+	N	+	-	+	N	+	7 (+), 3 (N), 1 (-)
5.6.2	Continue to maintain relationships with the County School Board to enhance the County's shelter capabilities.	+	N	N	+	+	N	+	+	+	N	+	7 (+), 4 (N), 0 (-)
5.6.3	Work with the Board of Education to introduce and conduct tornado drills in schools and educate children and families about the growing threat of tornados.	+	N	+	+	+	N	+	-	+	N	+	7 (+), 3 (N), 1 (-)
5.6.4	Continue to coordinate with County PIO to develop a "pre-approved" set of releases to be disseminated to the public in a timely manner in the event of an emergency.	+	+	+	+	+	N	+	+	+	N	+	9 (+), 2 (N), 0 (-)
6.1.2	Maintain zoning ordinance provisions for protection of all hazard areas.	+	+	+	+	+	+	+	+	+	+	+	11 (+), 0 (N), 0 (-)
6.2.1	Identify natural resources that provide natural mitigation such as wetlands, buffers, etc and make them a priority for conservation.	+	+	+	+	+	+	+	+	+	+	+	11 (+), 0 (N), 0 (-)
6.2.2	Give high priority to undeveloped floodplain areas, forested wetlands, and emergent wetlands for natural preservation.	+	+	+	+	+	+	+	+	+	+	+	11 (+), 0 (N), 0 (-)
7.1.1	Continue existing drills and exercises and expand those programs as able.	+	+	+	+	+	+	+	-	+	+	+	10 (+), 0 (N), 1 (-)

2023 Calvert County Mitigation Actions		Multi-objective mitigation action prioritization criteria					Priority
Action #	Action	Effectiveness	Efficiency	Multi-Hazard Mitigation	Addresses High Risk Hazard	Addresses Critical Communication s/Critical Infrastructure	
1.1.1	Continue to support a regular maintenance program for emergency generators at the county's critical facilities and community lifeline facilities.	2	3	3	3	3	2.8
1.1.2	Continue to conduct routine inspections, regular maintenance, and annual tests in all emergency communications equipment, public address systems, and hazard alert sirens to ensure unhindered operation during an emergency event.	2	3	3	3	3	2.8
1.1.3	Continue to ensure that a planned, coordinated, and effective public warning dissemination program exists at the local level and is well maintained.	2	3	3	3	3	2.8
1.1.4	Continue to maintain early warning systems through a variety of tools for designated critical facilities and community lifeline facilities.	2	3	3	3	3	2.8
1.1.5	Implement FEMA's Integrated Public Alert and Warning System (IPAWS) for sudden onset hazards such as tornados, thunderstorms, or flash floods.	2	3	3	3	3	2.8
1.1.6	Continue to prepare for and coordinate sheltering during extreme weather events, including but not limited to vulnerable populations.	2	2	3	2	2	2.2
1.2.1	Continue to identify at-risk populations (elderly, homeless, persons with physical or mental disabilities) to various hazards and maintain records of those vulnerable populations and the types of assistance they may need before, during, or after a hazard.	2	2	3	3	1	2.2
1.2.2	Utilize existing technical proficiency at the local level for conducting post-disaster damage assessments.	3	3	3	3	2	2.85
1.2.3	Continue to maintain and replace county owned critical infrastructure and community lifelines.	3	3	3	3	3	3
1.3.1	Develop a program for identification of areas that will be economically impacted by a hazard event.	2	2	3	2	2	2.2

1.3.2	Examine and research cybersecurity directives, best practices, and resources from the United States Department of Homeland Security's (US DHS) Cybersecurity & Infrastructure Security Agency (CISA) to lessen the impact of a potential cybersecurity event at the county.	2	2	2	2	3	2.15
1.3.3	Implement any directives, best practices, or resources from CISA that would increase the resiliency of Calvert County from cyberterrorism and cyberattack.	3	3	2	2	3	2.65
1.3.4	Continue to support county-wide response to the opioid epidemic.	2	2	1	3	1	1.8
1.3.5	Continue to prepare for and coordinate response to extreme heat and cold weather events.	2	2	2	3	2	2.15
1.3.6	Continue to support the provision of county-wide mental health resources, education, and response.	2	2	2	3	2	2.15
1.3.7	Continue to support the implementation of critical incident stress management resources for career and volunteer first responders in the county.	2	2	2	3	3	2.3
1.4.1	Conduct an assessment of Calvert County emergency shelter locations and equipment at those shelters.	1	1	3	3	3	2
1.4.2	Cross training county staff for emergency response or a specific position during a disaster event.	2	2	3	3	3	2.5
1.5.1	Research funding with the towns of Chesapeake Beach and North Beach to reinforce critical facilities and community lifelines including but not limited to emergency service locations, hospitals, and utility infrastructure.	2	1	3	2	3	2.05
2.1.1	Ensure reconstruction activities are compliant with NFIP substantial damage/improvement requirements and existing codes.	2	2	3	3	2	2.35
2.1.2	Continue to provide technical assistance to local residents in applying for hazard mitigation assistance for acquisition/demolition, elevation, and localized flood risk reduction.	2	2	3	3	1	2.2
2.1.3	Continue to coordinate with the County, municipality and/or the Maryland Department of Transportation on the potential feasibility of replacing, removing, or enlarging those bridge and culvert stream crossings that are unable to pass the 10-year frequency flood flow.	1	2	2	3	3	2.1

2.2.1	Support the identification and implementation of stormwater management projects for flood risk reduction.	3	3	2	3	3	2.8
2.3.1	Reduce vulnerability to wildfires by providing public education on increasing buffers and defensible spaces.	2	3	1	1	1	1.8
2.3.2	Make recommendations to the state realtor board to develop a disclaimer for developing along the cliffs.	2	3	1	3	1	2.1
2.3.3	Collaborate on environmental features map for cliff mapping by category.	1	3	1	3	1	1.9
2.4.1	Continue to maintain Storm Ready Community certification (by the National Weather Service StormReady® Program).	2	2	3	3	2	2.35
3.1.1	Update the Comprehensive Plan's Hazard Mitigation Section and its assessment of hazard vulnerability and mitigation actions.	1	1	3	3	3	2
3.1.2	Develop and implement a post-disaster recovery plan.	2	2	3	3	3	2.5
3.1.3	Continue to ensure County and municipal compliance with local Stormwater Management Plans.	3	3	2	3	3	2.8
3.1.4	Coordinate with town centers to integrate the Calvert County hazard mitigation plan into the town center master plans.	1	1	3	3	3	2
3.1.5	Continue to ensure compliance with approved Erosion and Sedimentation Control Plans and continue to work with local farmers to implement BMPs.	3	3	2	3	3	2.8
3.1.6	Integrate a hazard mitigation section into the Chesapeake Beach and North Beach Comprehensive Plans.	3	3	3	3	3	3
4.1.1	Research information on structure retrofitting to meet standards related to high-risk hazards.	2	2	3	3	3	2.5
5.1.1	Continue to work with local radio stations to promote continuity of public awareness and disaster preparedness.	2	2	3	3	1	2.2
5.1.2	Continue to distribute a public summary of this hazard mitigation plan including relevant information on hazard-prone areas, hazard specific "do's" and "don'ts" and emergency contact information.	2	2	3	3	2	2.35

5.1.3	Continue to encourage Calvert County citizens to be better prepared to face hazards by promoting and offering Community Emergency Response Team (CERT) training/classes to increase the number of citizen responders in the municipalities and population centers.	2	2	3	3	1	2.2
5.1.4	Conduct seminars as requested in schools on various hazards that could threaten the County and provide informational packets for students to take home.	2	2	3	3	2	2.35
5.1.5	Develop a more formal program with Calvert County schools for presentations related to high-risk hazards.	2	2	3	3	2	2.35
5.1.6	Utilize support to update training and educational materials on hazard mitigation including presentations and hand-outs.	3	1	3	3	1	2.1
5.1.7	Outreach to other community groups as requested on hazard mitigation and preparedness.	2	2	3	3	2	2.35
5.1.8	Maintain the CalvertPrepare mobile app to present hazard education and preparedness information to all stakeholders in the county.	2	2	3	3	1	2.2
5.1.9	Develop mailings for category one and two cliff adjacent properties annually for residents and property owners in Calvert County.	3	3	1	3	1	2.3
5.1.10	Develop additional mailers for local lenders and realtors in Calvert County related to cliffs.	3	3	1	3	1	2.3
5.1.11	Develop educational videos for cliff vulnerability across the county.	3	3	1	3	1	2.3
5.1.12	Develop annual press releases on cliff vulnerability and distribute to the public.	3	3	1	3	1	2.3
5.1.13	Develop an Emergency Management "Brand" to be the face of Emergency Preparedness and provide a trusted and reliable source of information to the public. Raise awareness of the County's Emergency Management Division and their roles and responsibilities.	2	2	3	3	1	2.2
5.1.14	Conduct data analytics of the County's emergency websites and media outlets to track the reach and efficacy of information including news posts, bulletins, and reading materials.	1	3	3	3	1	2.3
5.1.15	Identify and coordinate public information programs and events such as contests and festivals with public and private partners.	2	2	3	3	2	2.35

5.2.1	Continue routine inspections and subsequent debris removal of stormwater facilities	3	3	2	3	3	2.8
5.2.2	Continue to inspect storm drains and culverts prior to road repairs and implement culvert upgrade projects, as they are identified	3	3	3	3	3	3
5.3.1	Develop a presentation for structural retrofitting and actions homeowners can take to address protection in the event of a flooding hazard event.	3	3	3	3	1	2.7
5.4.1	Research funding that is available for hazard mitigation in Calvert County and Maryland.	2	2	3	3	2	2.35
5.5.1	Work with local businesses and local industry owners to develop a continuity of operations plan.	3	3	3	3	1	2.7
5.6.1	Recommend to the Board of Education to develop and implement a natural hazards awareness curriculum.	1	2	3	3	1	2
5.6.2	Continue to maintain relationships with the County Board of Education to enhance the County's shelter capabilities.	2	2	3	3	1	2.2
5.6.3	Work with the Board of Education to introduce and conduct tornado drills in schools and educate children and families about the growing threat of tornados.	1	2	3	3	1	2
5.6.4	Continue to coordinate with County PIO to develop a "pre-approved" set of releases to be disseminated to the public in a timely manner in the event of an emergency.	3	3	3	3	1	2.7
6.1.2	Maintain zoning ordinance provisions for protection of all hazard areas.	2	3	3	3	1	2.5
6.2.1	Identify natural resources that provide natural mitigation such as wetlands, buffers, etc and make them a priority for conservation.	3	3	3	3	2	2.85
6.2.2	Give high priority to undeveloped floodplain areas, forested wetlands, and emergent wetlands for natural preservation.	3	3	3	3	2	2.85
7.1.1	Continue existing drills and exercises and expand those programs as able.	2	2	3	3	2	2.35
7.1.2	Coordinate with the state to implement a recurring training and exercise program to validate plans, maintain capabilities, and ensure NIMS compliance.	2	2	3	3	2	2.35
7.2.1	Develop agreements between Calvert County and local jurisdictions, regional organizations, and the state of Maryland to share GIS data and vulnerability datasets to address hazards.	3	3	3	3	3	3

8.1.1	Distribute educational materials about the HHPD program to municipalities, communities, and county residents.	2	2	1	1	1	1.5
8.2.1	Provide education on local mitigation policies and programs that address high-hazard potential dams to municipalities and county residents.	2	2	1	1	1	1.5
8.3.1	Acquire or maintain digitized dam inundation GIS polygons to determine at risk populations for dams designated High-Hazard Potential Dams by FEMA.	2	2	1	1	1	1.5