

6.0 MITIGATION STRATEGY

§ 201.6(c)(3)	A mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.
§ 201.6(c)(3)(ii)	A section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure. All plans approved by FEMA after October 1, 2008, must also address the jurisdiction's participation in the NFIP, and continued compliance with NFIP requirements, as appropriate.
§ 201.6(c)(3)(iii)	An action plan describing how the actions identified in paragraph (c)(3)(ii) of this section will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost-benefit review of the proposed projects and their associated costs.

This section uses the information presented thus far as the basis of a mitigation action plan comprised of specific projects to reduce or eliminate hazard-related losses throughout Adams County.

6.1 Update Process Summary

Mitigation goals are general guidelines that explain what the county wants to achieve. Goals are usually broad policy statements representing desired long-term results. Mitigation objectives describe strategies or implementation steps to attain the identified goals. Objectives are more specific statements than goals, and the described steps are usually measurable and can have a defined completion date.

Adams County identified four goals with associated objectives in its 2015 plan. At its June 2019 meeting, the planning committee reviewed those objectives. In reviewing the goals, committee members recognized that they contained similar wording, and many of them focused on individual hazards. To better represent a cohesive effort, the committee consolidated five goals and revised it to apply to multiple hazards. The committee also retained a goal from 2015, and it deleted one of the goals. Committee members recognized the value of an efficient and effective response to hazard mitigation, and thus added a new goal to support the integration of mitigation and preparedness efforts. Similarly, committee members recognized the importance of source water protection and stormwater management efforts, and they added a second new goal supporting these efforts.



Table 6.1-1

GOALS AND OBJECTIVES	CONTINUE	CHANGE	DELETE	REASON/STATUS
Goal 1: Reduce potential injury/death and damage to existing community assets due to flooding.		X		Consolidated with Goals 2, 3, 4, and 5 into a single goal that addresses damage reduction at existing community assets from all hazards.
Objective 1.A: Identify by municipality and evaluate protection, acquisition, or relocation of homes and existing facilities with the highest relative vulnerability in the 1% chance floodplain.		X		Flooding continues to be a frequent and damaging hazard throughout Adams County; kept and consolidated with Objectives 1.B and 1.C.
Objective 1.B: Identify and evaluate strategies for repetitive loss properties and frequently impacted structures.		X		Flooding continues to be a frequent and damaging hazard throughout Adams County; kept and consolidated with Objectives 1.A and 1.C.
Objective 1.C: Provide public outreach/education regarding strategies (e.g. flood proofing) for property owners in 1%-chance floodplain.		X		Flooding continues to be a frequent and damaging hazard throughout Adams County; kept and consolidated with Objectives 1.A and 1.B.
Objective 1.D: Address identified data limitations regarding lack of detailed information about the County's high-hazard areas and individual structures located in the 1% chance floodplain.			X	Deleted, local officials can cross reference parcel and structure data with special flood hazard areas via currently-available GIS data.
Goal 2: Reduce potential injury/death and damage to existing community assets due to severe weather.		X		Consolidated with Goals 1, 3, 4, and 5 into a single goal that addresses damage reduction at existing community assets from all hazards.
Objective 2.A: Identify the most vulnerable and critical existing structures and infrastructure due to the effects of severe weather.		X		Kept because committee members recognized the importance of protecting vulnerable and critical structures/infrastructures; consolidated into the goal address damage reduction to multiple hazards.
Objective 2.B: Encourage the public to identify personal storm shelters and identify warning systems during the event of severe weather.	X	X		Education programs targeting personal resilience continue to be effective and desirable; kept and re-categorized under the appropriate "new" goal.
Objective 2.C: Assess the adequacy of municipal zoning/land-use ordinances and building code implementation.	X	X		Kept, but consolidated with Objective 6.A and 6.B and broadened into a "code enforcement" reference on a revised, more actionable goal.
Goal 3: Reduce potential injury/death and damage to existing community assets due to fires.		X		Consolidated with Goals 1, 2, 4, and 5 into a single goal that addresses damage reduction at existing community assets from all hazards.
Objective 3.A: Ensure adequate water supply for firefighting.	X	X		Ensuring response agencies have what they need to respond appropriate continued to be important; kept, but combined with notes about supporting other training and equipment projects designed to support an efficient response (and placed under the new, response-centric goal).
Goal 4: Reduce potential injury/death and damage to existing community assets due to environmental hazards.		X		Consolidated with Goals 1, 2, 3, and 5 into a single goal that addresses damage reduction at existing community assets from all hazards.
Objective 4.A: Develop comprehensive approach to reducing potential injury/damages for nearby critical facilities and vulnerable populace.		X		Consolidated with other goals and objectives to present a more unified, comprehensive approach to damage reduction to critical facilities, infrastructure, and vulnerable populations from all hazards.



GOALS AND OBJECTIVES	CONTINUE	CHANGE	DELETE	REASON/STATUS
Objective 4.B: Evaluate potential contamination of drinking water sources along transportation corridors.		X		Protecting drinking water and ensuring proper stormwater management continue to be important; kept, but subsumed under a new goal targeting stormwater management and source water protection.
Goal 5: Reduce potential injury/death and damage to existing community assets due to terrorism and nuclear incidents.		X		Consolidated with Goals 1, 2, 3, and 4 into a single goal that addresses damage reduction at existing community assets from all hazards.
Objective 5.A: Identify by municipality the most vulnerable and critical structures and infrastructure relative to terrorism and nuclear incidents and identify tactical vulnerability.		X		Consolidated with other goals and objectives to present a more unified, comprehensive approach to damage reduction to critical facilities, infrastructure, and vulnerable populations from all hazards.
Objective 5.B: Enhance response capability of County and municipal services.		X		Kept, but broadened into a goal that could help reduce risk to many hazards.
Goal 6: Promote disaster-resistant future development.	X	X		Retained, but made more specific (and actionable) by adding a code enforcement element.
Objective 6.A: Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	X	X		Kept, but consolidated with Objective 2.C and 6.B and broadened into a "code enforcement" reference on a revised, more actionable goal.
Objective 6.B: Ensure implementation of applicable provisions of the UCC to provide protection for new construction and substantial renovations from the effects of identified hazards.	X	X		Kept, but consolidated with Objective 2.C and 6.A and broadened into a "code enforcement" reference on a revised, more actionable goal.
Goal 7: Promote hazard mitigation as a public value in recognition of its importance to the health, safety, and welfare of the population.			X	Deleted, noted that public education actions could appear under the other remaining goals.
Objective 7.A: Provide public education to increase awareness of hazards, opportunities for hazard mitigation, and actions to take during an emergency.	X	X		Education programs targeting personal resilience continue to be effective and desirable; kept and re-categorized under the appropriate "new" goal.
Objective 7.B: Promote partnerships between the municipalities and the County to continue to develop a County-wide approach to identifying and implementing mitigation actions.		X		Kept, but subsumed under the new goal supporting a more efficient response capability.
Objective 7.C: Develop a comprehensive approach to reduce potential injury to vulnerable populace.		X		Kept, but subsumed under the new goal supporting a more efficient response capability.
Objective 7.D: Promote public education and outreach to address Pandemic and Infectious Disease and Invasive Species.			X	The committee kept the actions listed under this objective, but because those actions supported the new goal supporting an efficient response, the committee deleted this as a stand-alone objective.

Mitigation actions provide more detailed descriptions of specific work tasks to help the county and its municipalities achieve identified goals and objectives. There were 37 actions identified as part of the 2015 mitigation plan. The county's consultant worked individually with participating municipalities to discuss projects listed as applicable to their community in the previous version, as well as to discuss potential new projects to add to this version of the plan.



As such, the consultant worked with local representatives to classify each existing action as “completed,” “deleted,” “deferred,” “on-going,” or “new.” See Table 6.1-2 below. Additionally, committee members revised the mitigation action prioritization process (the updated methodology appears in Section 6.4 below).



Table 6.1-2

ACTION TITLE	COMPLETED	DELETED	DEFERRED	ON-GOING	DESCRIPTION OF PROGRESS OR REASON FOR DISCONTINUATION
<p>1.A.1: Identify and conduct cost-benefit analysis of protection, acquisition, or relocation of existing facilities with the highest relative vulnerabilities.</p> <p><i>REV: Identify mitigation projects such as acquisition and relocation, elevation, mitigation reconstruction, etc. in repetitively flood-prone areas, and work with homeowners to implement those projects.</i></p>				X	<p>The Gettysburg Municipal Authority (GMA) is looking to expand its office complex at East Middle and Sixth Streets, and the project includes a goal of creating safe spaces above the floodplain to protect records and to provide an area from which equipment could operate during a flood. At the time of this revision, GMA was in talks with Gettysburg Borough officials about zoning and related requirements. Additionally, Butler Township officials elevated a mobile home near Arendtsville by putting it on a larger (i.e., "higher") foundation.</p> <p>County officials recommended revising this project for the 2020 plan update to generalize the language and to emphasize working with property owners in repetitively-flooded areas.</p>
<p>1.A.2: Utilize generators, battery backups, and sump pumps in municipal buildings and other critical facilities.</p>				X	<p>Adams County Emergency Services (ACDES) indicates that many county-owned buildings have generator auxiliary power. For the next mitigation planning cycle, ACDES will continue its efforts to encourage municipalities to equip their municipal-owned buildings and infrastructure with auxiliary power. Arendtsville Borough indicated the completion of this project for its water and sewer plants in August of 2018. Biglerville Borough indicates generators present at the sewer plant, Upper Adams School District (physical location at 161 North Main Street), and Biglerville Hose & Truck Company station. Biglerville has a generator to support its water wells, but that generator is not currently online (and needs replacement).</p>
<p>1.B.1: Develop a strategy to address repetitive flooding impacting residential structures along Conewago Creek in Reading Township.</p>	X				<p>ACOPD noted the successful elevation of several homes in Reading Township.</p>
<p>1.B.2: Identify stormwater management improvements in Biglerville Borough and Butler Township.</p>				X	<p>Biglerville attempted to work with PennDOT regarding stormwater concerns, but that agency does not directly address those issues; PennDOT support borough efforts by providing flaggers when sinkhole/stormwater road repairs were underway. Borough efforts included stormwater piping to address washouts that had exposed pipes.</p>



ACTION TITLE	COMPLETED	DELETED	DEFERRED	ON-GOING	DESCRIPTION OF PROGRESS OR REASON FOR DISCONTINUATION
<p>1.B.3: Identify stormwater management improvements along Carrolls Tract Road in Hamiltonban Township.</p> <p>REV: Identify stormwater management improvements, to include green infrastructure/low-impact development, in Hamiltonban Township.</p>				X	<p>The Adams County Office of Planning and Development indicated that there have been improvements upstream of facilities such as the new post office to slow water flow. For the 2020 plan update, committee members felt broadening the intent of the project to consider green infrastructure or low-impact development options, to continue lessening the flow of runoff in strategically-selected areas, would be beneficial.</p>
<p>1.B.4: Assess locally owned (county/township/borough) bridges for direct flooding impacts and evaluate means to mitigate flood hazards to ensure bridges remain open during flood events.</p> <p>REV: Assess locally owned (county/township/borough) bridges for direct flooding impacts and share information (such as the PADEP guidelines for stream maintenance) regarding the mitigation of those flood hazards to ensure bridges remain open during flood events.</p>				X	<p>Committee members discussed the realization that bridges often serve as pinch points, where debris lodges and causes flooding problems. For instance, there are pinch points in Franklin Township in the Orrtanna area. There is another near Menallen. Resources such as the <i>Guidelines for Maintaining Streams in Your Community</i> from the Pennsylvania Department of Environmental Protection could be helpful to both jurisdictional leaders and property owners (i.e., outlining what one can and cannot do in a stream). The committee thus felt that making resources such as the guidelines available would support the on-going nature of this project.</p>
<p>1.C.1: Continue to conduct outreach with municipalities to provide information regarding flood mitigation actions.</p> <p>REV: Continue to conduct outreach with municipalities to provide information regarding flood mitigation actions, including administrative options, traditional projects, and the overlap of flood mitigation and stormwater management.</p>				X	<p>The U.S. Environmental Protection Agency (EPA) utilized FY2018 and FY2019 funds to support critical staff positions to begin implementation of countywide action plans for the Phase III Watershed Implementation Plan (which included Adams County as one of four pilot counties). Other flood mitigation options rest with consideration of stormwater management and low-impact development. An example would be the basin conversion at Colonial Ridge in Bonneville.</p>
<p>1.C.2: Promote the Community Rating System (CRS) to reduce insurance premiums and flood damage in Adams County municipalities prone to flooding.</p>				X	<p>FEMA released the final determination of modifications to floodplain mapping in areas of Adams County in March of 2020. Municipalities are reviewing floodplain ordinances and other insurance-related information in response to those changes. Based on changes, some communities may be interested in examining the CRS.</p>
<p>1.D.1: Use County GIS to inventory structures in floodplains.</p> <p>REV: Use county GIS to graphically depict flood-prone areas and structures.</p>				X	<p>The Adams County Office of Planning & Development maintains several GIS layers, including building footprints and up-to-date digital floodplain information. Together, these layers complete this project as it is written. Further, the department of planning actively maintains and supplements this data. For instance, in 2021, the county is scheduled to fly new aerials to update the accuracy of available data.</p>



ACTION TITLE	COMPLETED	DELETED	DEFERRED	ON-GOING	DESCRIPTION OF PROGRESS OR REASON FOR DISCONTINUATION
1.D.2: Obtain information for structures in areas with the highest relative vulnerability to determine the best property protection methods.				X	The county planning office has developed building footprint data which, when combined with spatial information in the risk assessment portion of this plan, can identify those structures in risk areas.
1.D.3: Obtain information for all remaining structures in the 1%-chance floodplain to determine the best property protection methods to promote with individual property owners.		X			As noted in the status for Action 1.D.1, the office of planning maintains the GIS data for the county. Committee members opted to consolidate this project with a generalized 1.D.1.
2.A.1: Conduct qualitative evaluation process for critical facilities and infrastructure to determine relative vulnerability and gather information for subsequent refinements of this mitigation plan.				X	Several municipalities indicated that this action is an on-going component of their municipal (or regional) emergency operations planning efforts. Additionally, the risk assessment portion of this plan is a qualitative consideration of vulnerability (generally), and it includes some inclusion of impacts to critical facilities and infrastructure.
2.A.2: Identify critical facilities with the highest relative vulnerability to the effects of power outage (i.e., hospitals, nursing homes, personal care facilities, day care facilities, fire, police, rescue, and emergency management).				X	Several municipalities indicated that this action is an on-going component of their municipal (or regional) emergency operations planning efforts.
2.A.3: Assist in developing action plans for reducing potential damage and loss of function at identified critical facilities and infrastructure.				X	Biglerville Borough completed a 2017 update on its sewer plant as well as a \$125,000 CDBG sewer line project. The GMA is replacing deteriorated major sewer pipes beginning at Water and Stratton Streets southwest to Middle Street and Bream Alley (west of West Street).
2.B.1: Continue to identify residents with the highest relative vulnerability to the effects of severe weather and prepare implementation plan.				X	The ACDES, municipal emergency managers, and local public health officials consider functional and access needs populations in emergency operations planning updates. Additionally, the steering committee for this update added "benefits to functional and access needs populations" as a project prioritization criterion.
2.C.1: Continue to monitor existing municipal ordinances from a hazard mitigation perspective.				X	Fairfield Borough indicated a new floodplain ordinance is in process (as of January 2020). The flood map modifications noted above have also served as the catalysts for several discussions regarding hazard-related updates to municipal ordinances. The Adams County Council of Governments (COG) serves as a collective resource for municipalities seeking support for updates to local ordinances. During the 2020 mitigation plan update, the steering committee identified the COG as a resource supporting mitigation plan maintenance, to include potentially naming a "mitigation subcommittee" within the COG. That effort would help to ensure that municipalities consider mitigation perspectives when reviewing ordinances.



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2.C.2: Ensure implementation of the UCC.	X				All municipalities fall under the UCC because it is a state requirement. Implementation the local level is through code enforcement officers. The officers have to be certified through the state, which ensures a level of consistency.
3.A.1: Continue to identify dry wells by municipality.	X				Participants in the 2020 update believe the term “dry wells” which typically refers to structures that dispose of unwanted water, is a typographical area (and should instead read “dry hydrant”). Various entities throughout Adams County have been aggressive in the installation of dry hydrants. For example, the Adams Electric Company provided materials to several communities years ago to install dry hydrants. The location of those hydrants, though, is not mapped. Committee members recommended creating a map of existing dry hydrants, along with radii that attempt to show areas served by the dry hydrants. This map would then allow for strategic consideration of additional hydrant installation.
3.A.2: Continue to encourage municipalities to address the adequacy of water for firefighting.				X	Arendtsville Borough began a project to address this action in April 2020. Additionally, several entities in Adams County have been installing dry hydrants to support firefighting. The identification of additional options, though, is on-going. See the status for Action 3.A.1 (regarding dry hydrants) as well.
3.A.3: Communicate with fire companies to identify any deficiencies in water supply for firefighting.		X			For efficiency purposes, the steering committee deleted this project, yet consolidated the participation of fire companies with Action 3.A.2 above.
4.A.1: The LEPC should work with facility owners and operators identified as having the greatest potential impact to ensure facilities are in compliance with all relevant local, state, and federal requirements; neighboring property owners understand the potential extent of the risk; traffic routing signs and trucker education are adequate; and alert and warning systems are appropriate to the situation.				X	The LEPC’s planner reaches out to facility owners and operators annually regarding Tier II submissions, payments, and off-site planning. The off-site planning requirements include local area vulnerability assessment (which may include participation by those whose businesses/residences fall in impact areas). The county completes this action annual as a matter of compliance.
4.A.2: Inform fire companies along rail lines of the potential for hazmat releases.	X				Local fire companies train on potential rail incidents, including those with hazardous material releases, regularly. The LEPC updates the county’s commodity flow study periodically, which includes a rail section, and shares it with local stakeholders as well.
4.A.3: Develop an evacuation plan for Lincoln Speedway in Berwick Township.	X			X	Per the township’s vice chairman, the EMC, fire chief, and speedway officials are working on the plan. The on-going aspect of the project is to bring the new speedway owners and new EMC up to speed.



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4.B.1: Distribute the commodity flow study to municipalities, municipal authorities, and fire departments.	X				The LEPC updates the county's commodity flow study periodically and shares it with local stakeholders.
5.A.1: Identify by municipality existing critical facilities with the highest relative vulnerability. <i>REV: Create a database that identifies and ranks the vulnerability of critical facilities by hazard; ensure that data can be sorted by municipality.</i>				X	The county's LEPC works with local covered facilities to develop off-site emergency response plans, and these off-site plans identify potentially-impacted critical facilities in local communities. Additionally, there is some consideration of vulnerable critical facilities in this hazard mitigation plan and on-going terrorism and nuclear preparedness efforts. Currently, there is not an overlay document that captures this information.
5.A.2: Work with PEMA, FEMA, and the U.S. Department of Homeland Security to stay abreast of developments in procedures for identifying and determining benefits/costs for potential mitigation actions for terrorist activities.				X	Adams County agencies participate in the South Central Regional Counterterrorism Task Force, which frequently shares information regarding mitigation and prevention of terrorist activity.
5.B.1: Work with the South Central Regional Counterterrorism Task Force and emergency responders to plan and prepare for terrorist activities, including training and exercises.				X	The task force's executive board meets monthly. Further, the task force sponsors frequent training throughout the region.
6.A.1: Distribute and promote the inclusion of vulnerability analysis information as part of periodic plan review and revisions at the township/borough level.				X	The ACDES provides copies of this plan to participating municipalities as updates occur. Further, as part of the 2020 update, the steering committee revised the plan maintenance section to include annual updates through the COG, which means that more frequent discussions surrounding risk and vulnerability will occur.
6.A.2: Continue to integrate evaluation of snow-removal and emergency access logistics with new development planning. <i>REV: Encourage developers to work with municipal officials to create emergency plans to ensure (or support) emergency ingress and egress to their communities.</i>				X	Fairfield Borough indicated that this action is on-going through SALDOs, and the county's office of planning agreed. Some municipalities, though, do not maintain roadways in subdivisions and other housing developments; some fall to the responsibility of homeowners' associations or developers. Committee members recommended revising this project to focus on the issue of emergency access. Some issues relative to access are dynamic. For instance, in a heavy winter that experiences significant snowfall, the access issue may be what to do with plowed snow. Thus, the action becomes one of preparedness planning and memorandum of understanding/mutual aid agreement preparation as new developments (or redeveloped areas) open.



ACTION TITLE	COMPLETED	DELETED	DEFERRED	ON-GOING	DESCRIPTION OF PROGRESS OR REASON FOR DISCONTINUATION
6.A.3: Update municipal subdivision and land development ordinances to address subsidence and sinkhole development due to identified near-surface limestone or Karst geologic features and require a carbonate study for development within Karst areas.				X	Some municipalities have completed this project, including Conewago Twp. Additionally, the Adams County Office of Planning & Development has a map on its website that depicts subsidence-prone areas, the location of known sinkholes, etc.
6.B.1: Ensure implementation of applicable provisions of the UCC.	X				Arendtsville Borough adopted changes in January 2020. Fairfield indicated that this project was on-going and supported by a third party. See Action 2.C.2 above.
6.B.2: Encourage adoption of International Building Code in all townships/boroughs.	X				Similarly to Action 2.C.2 above, the International Building Code is included in the UCC.
7.A.1: Continue to educate and conduct outreach pertaining to hazard mitigation and actions to take during an emergency.				X	The ACDES, the county's LEPC, municipal emergency coordinators, threat preparedness personnel with local public health authorities, etc. all regularly sponsor outreach campaigns to Adams County residents.
7.B.1: Convene regular meetings of the HMPC to discuss issues and progress related to the implementation of the plan. <i>REV: Convene regular meetings of the COG/steering committee to discuss issues and progress related to the implementation of the plan.</i>				X	Steering committee members acknowledged that it is difficult to schedule stand-alone hazard mitigation planning committee meetings during the five-year mitigation cycle, especially when there are so many other on-going multi-jurisdictional planning initiatives. During the 2020 update, the steering committee resolved to approach the Adams County COG to request a standing mitigation item on meeting agendas to serve as a vehicle for sharing progress related to implementing this plan. (For the update, the "HMPC" was replaced by "COG/steering committee.")
7.C.1: Identify special populations requiring additional emergency response during any hazard event and evaluate means to enhance response capability.				X	The ACDES, municipal emergency managers, and local public health officials consider functional and access needs populations in emergency operations planning updates. Additionally, the steering committee for this update added "benefits to functional and access needs populations" as a project prioritization criterion.
7.D.1: Work with appropriate county and regional partners to conduct public education on the County's Pandemic Plan.				X	Like many communities, public health authorities in Adams County regularly coordinate preparedness efforts with local, regional, and state partners. Further, public education efforts targeting information on seasonal flu, flu vaccinations, immunizations, etc. are regular occurrences. During the latter stages of the 2020 update to this plan, Adams County responded to the COVID-19 pandemic, which will likely alter available funding, planning efforts, and the nature of public education regarding pandemic incidents moving forward.



ACTION TITLE	COMPLETED	DELETED	DEFERRED	ON-GOING	DESCRIPTION OF PROGRESS OR REASON FOR DISCONTINUATION
7.D.2: Work with appropriate county and regional partners to conduct public education on the impacts of invasive species.				X	Fairfield indicated this project to be on-going via periodic newsletters. Additionally, the Adams County Conservation District partners with the Penn State Cooperative Extension service to share information, particularly regarding the spotted lanternfly. Committee members indicated that information sharing efforts should continue (and can be enhanced).



6.2 Mitigation Goals and Objectives

Based on the steps outlined in Section 6.1 above, the goals and objectives for Adams County's 2020 mitigation strategy appear in Table 6.2-1.

Table 6.2-1

ADAMS COUNTY MITIGATION GOALS AND OBJECTIVES	
Goal 1	Reduce potential injury/death and damage to existing community assets and critical infrastructure (i.e., bridges, water, sewer, natural gas, electricity, communications, etc.) from all hazards that could impact the county.
Objective 1.A	Educate citizens annually about the hazard risks they face and personal/household mitigation strategies.
Objective 1.B	Modernize the communications system used for emergency communications through training and technological upgrades.
Objective 1.C	Identify, by municipality, 100% of properties (homes and existing facilities) with the highest relative vulnerability in the 1%-chance floodplain; evaluate protection, acquisition, or relocation options; and educate property owners on personal mitigation strategies.
Goal 2	Realize hazard mitigation opportunities through stormwater management and source water protection initiatives.
Objective 2.A	Educate stakeholders (e.g., local officials and citizens) annually about the importance of stormwater management and source water protection and their links to hazard mitigation and risk reduction.
Goal 3	Promote disaster resilience in future development through code enforcement.
Objective 3.A	Educate citizens annually on compliance with applicable local codes and ordinances.
Objective 3.B	Update municipal floodplain ordinances within six months of official updates to flood insurance rate maps (FIRMs).
Goal 4	Reduce losses by facilitating a more efficient response to identified hazards.
Objective 4.A	Identify an emergency management coordinator (EMC) to represent all 34 municipalities in Adams County.
Objective 4.B	Ensure that 100% of the designated EMCs in Adams County have achieved a minimum baseline of training.
Objective 4.C	Facilitate communication prior to a hazard event by increasing the number of residents receiving emergency notifications by 10%.
Objective 4.D	Support all training, equipment, and infrastructure projects that would result in a more efficient emergency response for police, fire, emergency medical, public health, and medical agencies.

6.3 Identification and Analysis of Mitigation Techniques

There are five primary types of mitigation actions that can work to reduce long-term vulnerability: local plans and regulations, structure and infrastructure projects, natural systems protection, education programs, and preparedness and response activities (Coastal Hazards Research Center & Center for Sustainable Community Design, n.d.).

- **Local Plans and Regulations:** Local land use or comprehensive plans embody the goals, values, and aspirations of the community, as expressed through a process of community engagement. Local ordinances and review processes influence land development and building construction. In some cases, plans and regulations can work at cross-purposes. For example, a capital improvement plan may call for extending



water and sewer lines to an area that is vulnerable to natural hazards. Examples include the following.

- Comprehensive plans
 - Land use ordinances
 - Subdivision regulations
 - Development review
 - Building codes and enforcement
 - NFIP Community Rating System
 - Capital improvement programs
 - Open space preservation
 - Stormwater management regulations and master plans
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- **Structure and Infrastructure Projects:** These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. These projects could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct human-made structures to reduce the impact of hazards. Examples include the following.
 - Acquisitions and elevations of structures in flood-prone areas
 - Utility undergrounding
 - Structural retrofits
 - Floodwalls and retaining walls
 - Detention and retention structures
 - Culverts
 - Safe rooms
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- **Natural Systems Protection:** These are actions that minimize damage and losses while preserving or restoring the functions of natural systems. Examples include the following.
 - Sediment and erosion control
 - Stream corridor restoration
 - Forest management
 - Conservation easements
 - Wetland restoration and preservation



- **Education Programs:** These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Although this type of mitigation reduces risk less directly than structural projects or regulations, it is an important foundation. A greater understanding and awareness of hazards and risk among local officials, stakeholders, and the public can lead to direct actions. Examples include the following.
 - Radio or television spots
 - Websites with maps and information
 - Real estate disclosure
 - Presentations to school groups or neighborhood organizations
 - Mailings to residents in hazard-prone areas.
 - StormReady
 - Firewise Communities

- **Preparedness and Response Activities:** Mitigation actions that reduce or eliminate long-term risk are different from actions taken to prepare for or respond to hazard events. Mitigation activities lessen or eliminate the need for preparedness or response resources in the future. When analyzing risks and identifying mitigation actions, the planning team may also identify emergency response or operational preparedness actions.

For some hazards such as tornadoes, including preparedness actions in the mitigation plan may be necessary and practical. The mitigation plan may be the best place for your community to capture and justify the need for these actions. However, these will not supplant or meet the federal requirements for identifying mitigation actions. It is important that the planning team understands the difference and can distinguish between mitigation and other emergency management activities.

To help committee members and participating jurisdictions better understand the types of mitigation techniques that work best for the hazards identified in the risk assessment, planners kept Table 6.3-1 in this version of the plan.



Table 6.3-1

HAZARD	MITIGATION TECHNIQUES				
	<i>Local Plans & Regulations</i>	<i>Structure & Infrastructure Projects</i>	<i>Natural Systems Protection</i>	<i>Education Programs</i>	<i>Preparedness & Response Activities</i>
Drought	X	X	X	X	X
Earthquake	X			X	X
Extreme Temperature				X	X
Flood, Flash Flood, Ice Jam	X	X	X	X	X
Hailstorm				X	X
Hurricane, Tropical Storm, Nor'easter	X			X	X
Invasive Species			X	X	
Landslide	X		X	X	
Pandemic and Infectious Disease				X	X
Subsidence, Sinkhole	X			X	
Tornado, Wind Storm	X	X		X	X
Wildfire	X			X	X
Winter Storm	X	X		X	X
Dam Failure	X			X	X
Env. Haz. (Hazardous Materials Release)	X		X	X	X
Nuclear Incidents				X	X
Terrorism				X	X
Transportation Accidents	X			X	X

6.4 Mitigation Action Plan

The following action plan identifies the goals, objectives, and actions that comprise Adams County's 2020 mitigation action plan. The consulting team presented an initial version of this list to the planning committee at its final meeting in January 2020, and consultants revised it (based on committee member feedback) into the version that appears in Table 6.4-1 below.

The table lists the mitigation actions by goal and objective. A total of 32 actions appear in the 2020 version of the plan. The action plan includes at least one action for each identified hazard, but multiple actions contribute to the mitigation of several hazards. Each participating municipality has at least one action. The committee intends for each mitigation action to contribute towards achieving at least one of the goals and objectives identified in Section 6.2 above. Underlined actions will contribute toward continued compliance with (and participation in) the National Flood Insurance Program (NFIP). Note, by inclusion on this table, the numbering



associated with the action will change since the committee goals and objectives from the 2015 version. In this table, the actions appear with their previous numbers for clarity.

Table 6.4-1

ADAMS COUNTY 2020 MITIGATION GOALS, OBJECTIVES, AND ACTIONS	
Goal 1	Reduce potential injury/death and damage to existing community assets and critical infrastructure (i.e., bridges, water, sewer, natural gas, electricity, communications, etc.) from all hazards that could impact the county.
Objective 1.A	Educate citizens annually about the hazard risks they face and personal/household mitigation strategies.
<u>Action 1.A.1</u>	Obtain information for structures in areas with the highest relative vulnerability to determine the best property protection methods. (Old Number 1.D.2)
Action 1.A.2	Continue to identify residents with the highest relative vulnerability to the effects of severe weather and prepare implementation plan. (Old Number 2.B.1)
Action 1.A.3	Distribute and promote the inclusion of vulnerability analysis information as part of periodic plan review and revisions at the township/borough level. (Old Number 6.A.1)
Action 1.A.4	Continue to educate and conduct outreach pertaining to hazard mitigation and actions to take during an emergency. (Old Number 7.A.1)
Action 1.A.5	Work with appropriate county and regional partners to conduct public education on the impacts of invasive species. (Old Number 7.D.2)
Objective 1.B	Modernize the communications system used for emergency communications through training and technological upgrades.
Action 1.B.1	As technology advances, upgrade emergency communications capabilities throughout the county.
Objective 1.C	Identify, by municipality, 100% of properties (homes and existing facilities) with the highest relative vulnerability in the 1%-chance floodplain; evaluate protection, acquisition, or relocation options; and educate property owners on personal mitigation strategies.
<u>Action 1.C.1</u>	Identify mitigation projects such as acquisition and relocation, elevation, mitigation reconstruction, etc. in repetitively flood-prone areas, and work with homeowners to implement those projects. (Old Number 1.A.1)
Action 1.C.2	Assess locally owned (county/township/borough) bridges for direct flooding impacts and share information (such as the PADEP guidelines for stream maintenance) regarding the mitigation of those flood hazards to ensure bridges remain open during flood events. (Old Number 1.B.4)
Goal 2	Realize hazard mitigation opportunities through stormwater management and source water protection initiatives.
Objective 2.A	Educate stakeholders (e.g., local officials and citizens) annually about the importance of stormwater management and source water protection and their links to hazard mitigation and risk reduction.
<u>Action 2.A.1</u>	Identify stormwater management improvements in Biglerville Borough and Butler Township. (Old Number 1.B.2)
<u>Action 2.A.2</u>	Identify stormwater management improvements, to include green infrastructure/low-impact development, in Hamiltonban Township. (Old Project 1.B.3)
Goal 3	Promote disaster resilience in future development through code enforcement.
Objective 3.A	Educate citizens annually on compliance with applicable local codes and ordinances.
<u>Action 3.A.1</u>	Continue to conduct outreach with municipalities to provide information regarding flood mitigation actions, to include administrative options, traditional projects, and the overlap of flood mitigation and stormwater management. (Old Number 1.C.1)
<u>Action 3.A.2</u>	Use county GIS to graphically depict flood-prone areas and structures. (Old Number 1.D.1)
<u>Action 3.A.3</u>	Continue to monitor existing municipal ordinances from a hazard mitigation perspective. (Old Number 2.C.1)
Action 3.A.4	Encourage developers to work with municipal officials to create emergency plans to ensure (or support) emergency ingress and egress to their communities. (Old Number 6.A.2)



ADAMS COUNTY 2020 MITIGATION GOALS, OBJECTIVES, AND ACTIONS	
Action 3.A.5	Update municipal subdivision and land development ordinances to address subsidence and sinkhole development due to identified near-surface limestone or Karst geologic features and require a carbonate study for development within Karst areas. (Old Number 6.A.3)
Objective 3.B	Update municipal floodplain ordinances within six months of official updates to flood insurance rate maps (FIRMs).
<u>Action 3.B.1</u>	Promote the Community Rating System (CRS) in an effort to reduce insurance premiums and flood damage in Adams County municipalities prone to flooding. (Old Number 1.C.2)
Goal 4	Reduce losses by facilitating a more efficient response to identified hazards.
Objective 4.A	Identify an emergency management coordinator (EMC) to represent all 34 municipalities in Adams County.
Action 4.A.1	Convene regular meetings of the COG/steering committee to discuss issues and progress related to the implementation of the plan. (Old Number 7.B.1)
Objective 4.B	Ensure that 100% of the designated EMCs in Adams County have achieved a minimum baseline of training.
Action 4.B.1	In light of recent turnover of municipal EMCs, identify coordinators as quickly as possible once an opening occurs to ensure continual countywide coordination for hazard mitigation and preparedness. Ensure delivery of baseline training to new EMCs.
Objective 4.C	Facilitate communication prior to a hazard event by increasing the number of residents receiving emergency notifications by 10%.
Action 4.C.1	The LEPC should work with facility owners and operators identified as having the greatest potential impact to ensure facilities are in compliance with all relevant local, state, and federal requirements; neighboring property owners understand the potential extent of the risk; traffic routing signs and trucker education are adequate; and alert and warning systems are appropriate to the situation. (Old Number 4.A.1)
Action 4.C.2	Continue to encourage residents to sign up for mass notification alerts.
Objective 4.D	Support all training, equipment, and infrastructure projects that would result in a more efficient emergency response for police, fire, emergency medical, public health, and medical agencies.
Action 4.D.1	Utilize generators, battery backups, and sump pumps in municipal buildings and other critical facilities. (Old Number 1.A.2)
Action 4.D.2	Conduct qualitative evaluation process for critical facilities and infrastructure to determine relative vulnerability and gather information for subsequent refinements of this mitigation plan. (Old Number 2.A.1)
Action 4.D.3	Identify critical facilities with the highest relative vulnerability to the effects of power outage (i.e., hospitals, nursing homes, personal care facilities, day care facilities, fire, police, rescue, and emergency management). (Old Number 2.A.2)
Action 4.D.4	Assist in developing action plans for reducing potential damage and loss of function at identified critical facilities and infrastructure. (Old Number 2.A.3)
Action 4.D.5	Continue to encourage municipalities to address the adequacy of water for firefighting. (Old Number 3.A.2)
Action 4.D.6	Map the locations of existing dry hydrants, and draw radii around those hydrants denoting the potential service areas. Use the map to identify under-served areas.
Action 4.D.7	Create a database that identifies and ranks the vulnerability of critical facilities by hazard; ensure that data can be sorted by municipality. (Old Number 5.A.1)
Action 4.D.8	Work with PEMA, FEMA, and the U.S. Department of Homeland Security to stay abreast of developments in procedures for identifying and determining benefits/costs for potential mitigation actions for terrorist activities. (Old Number 5.A.2)
Action 4.D.9	Work with the South Central Regional Counterterrorism Task Force and emergency responders to plan and prepare for terrorist activities, including training and exercises. (Old Number 5.B.1)
Action 4.D.10	Identify special populations requiring additional emergency response during any hazard event and evaluate means to enhance response capability. (Old Number 7.C.1)
Action 4.D.11	Work with appropriate county and regional partners to conduct public education on the county's pandemic plan. (Old Number 7.D.1)



ADAMS COUNTY 2020 MITIGATION GOALS, OBJECTIVES, AND ACTIONS	
Action 4.D.12	Obtain a generator for auxiliary power to ensure continued access to wells in Biglerville in the event of a long-term power outage.

All of the mitigation actions listed in Table 6.4-1 above will require substantial time commitments from local officials to implement fully. While the planning committee believes these actions are attainable within the next five years, the reality of limited time and resources requires the evaluation and prioritization of mitigation actions.

Evaluating mitigation actions involves judging each action against certain criteria to determine whether or not it can be executed. The planning committee evaluated the feasibility of mitigation actions against the following ten criteria.

- The action addresses more than one hazard at once.
- The action aims to protect “functional and access needs” populations.
- The action attempts to reduce the negative impacts of frequent and severe hazards.
- The action is easy to implement (most of the population agrees with the project, and it does not have negative political ramifications).
- The action protects the environment.
- The action is easily paid for with local funds or attainable grants.
- The action is already scheduled to start or is in process.
- The action directly aligns with one or more of the goals set by the committee.
- The action promotes partnerships within the county.
- The action promotes the modernization and efficiency of information flow.

The committee spent most of Meeting 4 discussing prioritization criteria for mitigation actions. To support prioritization, committee members completed a worksheet indicating a “score” for each of the ten criteria by order of importance (i.e., with “1” being the highest importance). The consultant collected the worksheets and averaged the responses to derive a weighting for each of the criteria. The criterion with the lowest average score received a point value of ten (and so on, with the criterion receiving the highest average score receiving a point value of one). Table 6.4-2 shows the scoring for the ten criteria.



Table 6.4-2

CRITERIA	AVG. SCORE	RESULTANT WEIGHT
The action addresses more than one hazard at once.	4.8125	7
The action aims to protect “functional and access needs” populations.	3.0625	10
The action attempts to reduce the negative impacts of frequent and severe hazards.	3.9375	8
The action is easy to implement (most of the population agrees with the project, and it does not have negative political ramifications).	6.5625	3
The action protects the environment.	5.5	6
The action is easily paid for with local funds or attainable grants.	6.125	4
The action is already scheduled to start or is in process.	8.25	1
The action directly aligns with one or more of the goals set by the committee.	6.875	2
The action promotes partnerships within the county.	5.75	5
The action promotes the modernization and efficiency of information flow.	3.8125	9

Table 6.4-3 below is the full prioritization scoring tabulation for the mitigation actions in the 2020 version of the plan. The committee allowed tie scores for priority. In those instances, planners skipped the subsequent rankings corresponding to the number of items tied. For instance, if three items tied for priority ranking Number 3, those three items appears as a “3” priority, and the item(s) receiving the next highest score would pick up at Number 6.



Table 6.4-3

ACTION	POINT TOTALS										TOTAL SCORE	PRIORITY RANKING
	10	9	8	7	6	5	4	3	2	1		
	Aims to protect "functional and access needs" populations	Promotes the modernization and efficiency of information flow	Attempts to reduce the negative impacts of frequent and severe hazards	Addresses more than one hazard at once	Protects the environment	Promotes partnerships within the county	Easily paid for with local funds or attainable grants	Easy to implement (most of the population agrees with the project, and it does not have negative political ramifications)	Directly aligns with one or more of the goals set by the committee	Already scheduled to start or is in process		
1.A.1		X	X	X			X	X	X	X	34	10
1.A.2	X		X	X		X	X	X	X	X	40	2
1.A.3		X	X	X		X	X	X	X	X	39	3
1.A.4		X	X	X				X	X	X	30	17
1.A.5		X			X	X		X	X	X	26	19
1.B.1		X	X	X		X		X	X	X	35	8
1.C.1			X		X				X		16	29
1.C.2			X		X	X			X	X	22	22



ACTION	POINT TOTALS										TOTAL SCORE	PRIORITY RANKING	
	10	9	8	7	6	5	4	3	2	1			
	Aims to protect "functional and access needs" populations	Promotes the modernization and efficiency of information flow	Attempts to reduce the negative impacts of frequent and severe hazards	Addresses more than one hazard at once	Protects the environment	Promotes partnerships within the county	Easily paid for with local funds or attainable grants	Easy to implement (most of the population agrees with the project, and it does not have negative political ramifications)	Directly aligns with one or more of the goals set by the committee	Already scheduled to start or is in process			
2.A.1	Identify stormwater management improvements in Biglerville Borough and Butler Township.			X		X	X		X	X	X	25	20
2.A.2	Identify stormwater management improvements, to include green infrastructure/low-impact development, in Hamiltonban Township.			X		X	X		X	X	X	25	20
3.A.1	Continue to conduct outreach with municipalities to provide information regarding flood mitigation actions, to include administrative options, traditional projects, and the overlap of flood mitigation and stormwater management.		X	X		X	X		X	X	X	34	10
3.A.2	Use county GIS to graphically depict flood-prone areas and structures.		X	X			X	X	X	X	X	32	13
3.A.3	Continue to monitor existing municipal ordinances from a hazard mitigation perspective.			X	X	X		X		X	X	28	18
3.A.4	Encourage developers to work with municipal officials to create emergency plans to ensure (or support) emergency ingress and egress to their communities.	X		X	X		X	X		X	X	37	7
3.A.5	Update municipal subdivision and land development ordinances to address subsidence and sinkhole development due to identified near-surface limestone or Karst geologic features and require a carbonate study for development within Karst areas.			X			X	X		X	X	20	26
3.B.1	Promote the Community Rating System (CRS) in an effort to reduce insurance premiums and flood damage in Adams County municipalities prone to flooding.			X			X	X		X		19	27



ACTION	POINT TOTALS										TOTAL SCORE	PRIORITY RANKING	
	10	9	8	7	6	5	4	3	2	1			
	Aims to protect "functional and access needs" populations	Promotes the modernization and efficiency of information flow	Attempts to reduce the negative impacts of frequent and severe hazards	Addresses more than one hazard at once	Protects the environment	Promotes partnerships within the county	Easily paid for with local funds or attainable grants	Easy to implement (most of the population agrees with the project, and it does not have negative political ramifications)	Directly aligns with one or more of the goals set by the committee	Already scheduled to start or is in process			
4.A.1	Convene regular meetings of the COG/steering committee to discuss issues and progress related to the implementation of the plan.		X	X	X		X	X	X	X	X	39	3
4.B.1	In light of recent turnover of municipal EMCs, identify coordinators as quickly as possible once an opening occurs to ensure continual countywide coordination for hazard mitigation and preparedness. Ensure delivery of baseline training to new EMCs.		X	X	X		X	X	X	X	X	39	3
4.C.1	The LEPC should work with facility owners and operators identified as having the greatest potential impact to ensure facilities are in compliance with all relevant local, state, and federal requirements; neighboring property owners understand the potential extent of the risk; traffic routing signs and trucker education are adequate; and alert and warning systems are appropriate to the situation.	X	X				X	X	X	X	X	34	10
4.C.2	Continue to encourage residents to sign up for mass notification alerts.	X	X	X	X			X	X	X	X	44	1
4.D.1	Utilize generators, battery backups, and sump pumps in municipal buildings and other critical facilities.			X					X	X	X	14	31
4.D.2	Conduct qualitative evaluation process for critical facilities and infrastructure to determine relative vulnerability and gather information for subsequent refinements of this mitigation plan.		X		X				X	X	X	22	22



ACTION	POINT TOTALS										TOTAL SCORE	PRIORITY RANKING	
	10	9	8	7	6	5	4	3	2	1			
	Aims to protect "functional and access needs" populations	Promotes the modernization and efficiency of information flow	Attempts to reduce the negative impacts of frequent and severe hazards	Addresses more than one hazard at once	Protects the environment	Promotes partnerships within the county	Easily paid for with local funds or attainable grants	Easy to implement (most of the population agrees with the project, and it does not have negative political ramifications)	Directly aligns with one or more of the goals set by the committee	Already scheduled to start or is in process			
4.D.3	Identify critical facilities with the highest relative vulnerability to the effects of power outage (i.e., hospitals, nursing homes, personal care facilities, day care facilities, fire, police, rescue, and emergency management).	X		X	X			X	X	X	X	35	8
4.D.4	Assist in developing action plans for reducing potential damage and loss of function at identified critical facilities and infrastructure.			X	X				X	X	X	21	25
4.D.5	Continue to encourage municipalities to address the adequacy of water for firefighting.			X			X		X	X	X	19	27
4.D.6	Map the locations of existing dry hydrants, and draw radii around those hydrants denoting the potential service areas. Use the map to identify under-served areas.		X	X			X	X	X	X		31	14
4.D.7	Create a database that identifies and ranks the vulnerability of critical facilities by hazard; ensure that data can be sorted by municipality.		X	X			X		X	X	X	31	14
4.D.8	Work with PEMA, FEMA, and the U.S. Department of Homeland Security to stay abreast of developments in procedures for identifying and determining benefits/costs for potential mitigation actions for terrorist activities.						X	X	X	X	X	15	30
4.D.9	Work with the South Central Regional Counterterrorism Task Force and emergency responders to plan and prepare for terrorist activities, including training and exercises.				X		X	X	X	X	X	22	22



ACTION	POINT TOTALS										TOTAL SCORE	PRIORITY RANKING
	10	9	8	7	6	5	4	3	2	1		
	Aims to protect "functional and access needs" populations	Promotes the modernization and efficiency of information flow	Attempts to reduce the negative impacts of frequent and severe hazards	Addresses more than one hazard at once	Protects the environment	Promotes partnerships within the county	Easily paid for with local funds or attainable grants	Easy to implement (most of the population agrees with the project, and it does not have negative political ramifications)	Directly aligns with one or more of the goals set by the committee	Already scheduled to start or is in process		
4.D.10 Identify special populations requiring additional emergency response during any hazard event and evaluate means to enhance response capability.	X		X	X				X	X	X	31	14
4.D.11 Work with appropriate county and regional partners to conduct public education on the county's pandemic plan.	X	X	X			X		X	X	X	38	6
4.D.12 Obtain a generator for auxiliary power to ensure continued access to wells in Biglerville in the event of a long-term power outage.			X					X	X	X	14	31



A mitigation action plan for each action appears in Table 6.4-4 below. The action plans identify, to the extent possible, the following information.

- **Community(ies):** Communities assisted by implementing the mitigation action
- **Action Type:** The mitigation action category (local plans and regulations, structural and infrastructure projects, natural systems protection, education programs, and preparedness and response activities)
- **Hazard(s) Addressed:** Hazard (or hazards) addressed by the action
- **Priority:** Priority based on the scoring in Table 6.4-3 above
- **Estimated Cost:** An informal cost estimate or credible source from which to develop a cost estimate
- **Potential Funding Source(s):** The programs and agencies/entities that could fund the mitigation action
- **Lead Agency or Department:** The coordinating agency for the mitigation action
- **Implementation Schedule:** An approximate timeframe for completion

Table 6.4-4

ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 1.A.1	Obtain information for structures in areas with the highest relative vulnerability to determine the best property protection methods.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	Dam Failure Flood, Flash Flood, Ice Jam Landslide Subsidence, Sinkhole
Priority	10
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	Adams County Office of Planning & Development (ACOPD) Adams County Department of Emergency Services (ACDES)
Implementation Schedule	On-Going



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 1.A.2	Continue to identify residents with the highest relative vulnerability to the effects of severe weather and prepare implementation plan.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Preparedness & Response Activities
Hazard(s) Addressed	Hailstorm Hurricane, Tropical Storm, Nor'easter Tornado, Wind Storm Winter Storm
Priority	2
Estimated Cost	TBD
Potential Funding Source(s)	EMPG, Local Funds
Lead Agency or Department	ACDES Municipal Emergency Management Coordinators (EMCs)
Implementation Schedule	On-Going
Action 1.A.3	Distribute and promote the inclusion of vulnerability analysis information as part of periodic plan review and revisions at the township/borough level.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	All
Priority	3
Estimated Cost	N/A
Potential Funding Source(s)	N/A
Lead Agency or Department	ACDES
Implementation Schedule	1 Year
Action 1.A.4	Continue to educate and conduct outreach pertaining to hazard mitigation and actions to take during an emergency.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Education Programs
Hazard(s) Addressed	All
Priority	17
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	ACDES Adams County Local Emergency Planning Committee (LEPC) Municipal EMCs
Implementation Schedule	On-Going



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 1.A.5	Work with appropriate county and regional partners to conduct public education on the impacts of invasive species.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Education Programs
Hazard(s) Addressed	Invasive Species
Priority	19
Estimated Cost	Coordination with partners should require little no direct funding (especially since entities like the Penn State Extension Service conduct similar efforts as a matter of regular business).
Potential Funding Source(s)	Local Funds
Lead Agency or Department	Adams County Conservation District Penn State Extension Service
Implementation Schedule	On-Going
Action 1.B.1	As technology advances, upgrade emergency communications capabilities throughout the county.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Preparedness & Response Activities
Hazard(s) Addressed	All
Priority	8
Estimated Cost	TBD
Potential Funding Source(s)	SHSP, HSGP, EMPG, State Funds, Local Funds
Lead Agency or Department	ACDES Adams County 911 Center Municipal EMCs First Responder Agencies
Implementation Schedule	5 Years
Action 1.C.1	Identify mitigation projects such as acquisition and relocation, elevation, mitigation reconstruction, etc. in repetitively flood-prone areas, and work with homeowners to implement those projects.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Structure & Infrastructure Projects
Hazard(s) Addressed	Flood, Flash Flood, Ice Jam
Priority	29
Estimated Cost	TBD (per individual projects)
Potential Funding Source(s)	HMGP, PDM, Local Funds
Lead Agency or Department	ACOPD ACDES
Implementation Schedule	On-Going



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 1.C.2	Assess locally owned (county/township/borough) bridges for direct flooding impacts and share information (such as the PADEP guidelines for stream maintenance) regarding the mitigation of those flood hazards to ensure bridges remain open during flood events.
Community(ies): Fairfield Borough, Freedom Township, Germany Township, Menallen Township	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	Flood, Flash Flood, Ice Jam
Priority	22
Estimated Cost	TBD
Potential Funding Source(s)	HMGP, PDM, FMA, Pennsylvania Infrastructure Bank
Lead Agency or Department	Municipal EMCs
Implementation Schedule	5 Years
Action 2.A.1	Identify stormwater management improvements in Biglerville Borough and Butler Township.
Community(ies): Biglerville Borough, Butler Township	
Action Type	Structure & Infrastructure Projects
Hazard(s) Addressed	Flood, Flash Flood, Ice Jam
Priority	20
Estimated Cost	TBD
Potential Funding Source(s)	HMGP, PDM, FMA, PENNVEST, Local Funds
Lead Agency or Department	Borough/Township Managers ACOPD
Implementation Schedule	5 Years
Action 2.A.2	Identify stormwater management improvements, to include green infrastructure/low-impact development, in Hamiltonban Township.
Community(ies): Hamiltonban Township	
Action Type	Structure & Infrastructure Projects
Hazard(s) Addressed	Flood, Flash Flood, Ice Jam
Priority	20
Estimated Cost	TBD
Potential Funding Source(s)	HMGP, PDM, FMA, PENNVEST, Local Funds
Lead Agency or Department	Township Secretary ACOPD
Implementation Schedule	5 Years
Action 3.A.1	Continue to conduct outreach with municipalities to provide information regarding flood mitigation actions, to include administrative options, traditional projects, and the overlap of flood mitigation and stormwater management.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Education Programs
Hazard(s) Addressed	Flood, Flash Flood, Ice Jam
Priority	10
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	ACDES ACOPD
Implementation Schedule	On-Going



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 3.A.2	Use county GIS to graphically depict flood-prone areas and structures.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	Flood, Flash Flood, Ice Jam
Priority	13
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	ACOPD
Implementation Schedule	On-Going
Action 3.A.3	Continue to monitor existing municipal ordinances from a hazard mitigation perspective.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	All
Priority	18
Estimated Cost	N/A
Potential Funding Source(s)	N/A
Lead Agency or Department	ACOPD Municipal Managers Municipal EMCs
Implementation Schedule	On-Going
Action 3.A.4	Encourage developers to work with municipal officials to create emergency plans to ensure (or support) emergency ingress and egress to their communities.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	All
Priority	7
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	Municipal EMCs
Implementation Schedule	5 Years



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 3.A.5	Update municipal subdivision and land development ordinances to address subsidence and sinkhole development due to identified near-surface limestone or Karst geologic features and require a carbonate study for development within Karst areas.
Community(ies): Berwick Township, Carroll Valley Borough, Conewago Township, Fairfield Borough, Franklin Township, Germany Township, Hamiltonban Township, Huntington Township, Littlestown Borough, McSherrystown Borough, Mount Pleasant Township, Oxford Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	Subsidence, Sinkhole
Priority	26
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	Municipal Managers ACOPD
Implementation Schedule	On-Going
Action 3.B.1	Promote the Community Rating System (CRS) in an effort to reduce insurance premiums and flood damage in Adams County municipalities prone to flooding.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	Flood, Flash Flood, Ice Jam
Priority	27
Estimated Cost	Participation in the program will not require direct costs; however, participants may incur personnel costs associated with program maintenance.
Potential Funding Source(s)	Local Funds
Lead Agency or Department	Municipal EMCs Municipal Managers ACOPD ACDES
Implementation Schedule	5 Years
Action 4.A.1	Convene regular meetings of the COG/steering committee to discuss issues and progress related to the implementation of the plan.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	All
Priority	3
Estimated Cost	N/A
Potential Funding Source(s)	N/A
Lead Agency or Department	Adams County Council of Governments (COG) ACDES
Implementation Schedule	1 Year (and On-Going afterward)



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 4.B.1	In light of recent turnover of municipal EMCs, identify coordinators as quickly as possible once an opening occurs to ensure continual countywide coordination for hazard mitigation and preparedness. Ensure delivery of baseline training to new EMCs.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Preparedness & Response Activities
Hazard(s) Addressed	All
Priority	3
Estimated Cost	N/A
Potential Funding Source(s)	N/A
Lead Agency or Department	ACDES
Implementation Schedule	5 Years
Action 4.C.1	The LEPC should work with facility owners and operators identified as having the greatest potential impact to ensure facilities are in compliance with all relevant local, state, and federal requirements; neighboring property owners understand the potential extent of the risk; traffic routing signs and trucker education are adequate; and alert and warning systems are appropriate to the situation.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	Environmental Hazards: Hazardous Materials Release Transportation Accidents
Priority	10
Estimated Cost	TBD
Potential Funding Source(s)	Act 165, PennDOT HSF, PennDOT MLFF, Local Funds
Lead Agency or Department	Adams County LEPC
Implementation Schedule	On-Going
Action 4.C.2	Continue to encourage residents to sign up for mass notification alerts.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Education Programs
Hazard(s) Addressed	All
Priority	1
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	ACDES Municipal EMCs
Implementation Schedule	On-Going



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 4.D.1	Utilize generators, battery backups, and sump pumps in municipal buildings and other critical facilities.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Structure & Infrastructure Projects
Hazard(s) Addressed	Flood, Flash Flood, Ice Jam Tornado, Wind Storm Winter Storm
Priority	31
Estimated Cost	TBD
Potential Funding Source(s)	HMGP, PDM, Local Funding
Lead Agency or Department	Utility Departments
Implementation Schedule	5 Years
Action 4.D.2	Conduct qualitative evaluation process for critical facilities and infrastructure to determine relative vulnerability and gather information for subsequent refinements of this mitigation plan.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	All
Priority	22
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	ACDES Adams County LEPC Municipal EMCs
Implementation Schedule	On-Going



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 4.D.3	Identify critical facilities with the highest relative vulnerability to the effects of power outage (i.e., hospitals, nursing homes, personal care facilities, day care facilities, fire, police, rescue, and emergency management).
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	Hailstorm Pandemic & Infectious Disease Tornado, Wind Storm Winter Storm
Priority	8
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	ACDES Adams County LEPC Municipal EMCs
Implementation Schedule	On-Going
Action 4.D.4	Assist in developing action plans for reducing potential damage and loss of function at identified critical facilities and infrastructure.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Preparedness & Response Activities
Hazard(s) Addressed	All
Priority	25
Estimated Cost	TBD
Potential Funding Source(s)	HSGP, EMPG, Local Funds
Lead Agency or Department	ACDES Adams County LEPC Municipal EMCs
Implementation Schedule	On-Going



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 4.D.5	Continue to encourage municipalities to address the adequacy of water for firefighting.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Preparedness & Response Activities
Hazard(s) Addressed	Drought Wildfire
Priority	27
Estimated Cost	TBD
Potential Funding Source(s)	CDBG, State Funds, Local Funds
Lead Agency or Department	Municipal EMCs
Implementation Schedule	On-Going
Action 4.D.6	Map the locations of existing dry hydrants, and draw radii around those hydrants denoting the potential service areas. Use the map to identify under-served areas.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Preparedness & Response Activities
Hazard(s) Addressed	Drought Wildfire
Priority	14
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	ACDES ACOPD
Implementation Schedule	3 Years
Action 4.D.7	Create a database that identifies and ranks the vulnerability of critical facilities by hazard; ensure that data can be sorted by municipality.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	All
Priority	14
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	ACDES Municipal EMCs Adams County LEPC ACOPD
Implementation Schedule	5 Years



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 4.D.8	Work with PEMA, FEMA, and the U.S. Department of Homeland Security to stay abreast of developments in procedures for identifying and determining benefits/costs for potential mitigation actions for terrorist activities.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Local Plans & Regulations
Hazard(s) Addressed	Terrorism
Priority	30
Estimated Cost	TBD
Potential Funding Source(s)	SHSP, EMPG, Act 165, Local Funds
Lead Agency or Department	ACDES
Implementation Schedule	On-Going
Action 4.D.9	Work with the South Central Regional Counterterrorism Task Force and emergency responders to plan and prepare for terrorist activities, including training and exercises.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Preparedness & Response Activities
Hazard(s) Addressed	Terrorism
Priority	22
Estimated Cost	N/A
Potential Funding Source(s)	N/A
Lead Agency or Department	ACDES
Implementation Schedule	On-Going
Action 4.D.10	Identify special populations requiring additional emergency response during any hazard event and evaluate means to enhance response capability.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Preparedness & Response Activities
Hazard(s) Addressed	All
Priority	14
Estimated Cost	TBD
Potential Funding Source(s)	Local Funds
Lead Agency or Department	ACDES Municipal EMCs
Implementation Schedule	On-Going



ADAMS COUNTY 2020 MITIGATION ACTION PLAN	
Action 4.D.11	Work with appropriate county and regional partners to conduct public education on the county's pandemic plan.
Community(ies): Abbottstown Borough, Arendtsville Borough, Bendersville Borough, Berwick Township, Biglerville Borough, Bonneauville Borough, Butler Township, Carroll Valley Borough, Conewago Township, Cumberland Township, East Berlin Borough, Fairfield Borough, Franklin Township, Freedom Township, Germany Township, Gettysburg Borough, Hamilton Township, Hamiltonban Township, Highland Township, Huntington Township, Liberty Township, Littlestown Borough, McSherrystown Borough, Menallen Township, Mount Joy Township, Mount Pleasant Township, New Oxford Borough, Oxford Township, Reading Township, Straban Township, Tyrone Township, Union Township, York Springs Borough	
Action Type	Education Programs
Hazard(s) Addressed	Pandemic, Infectious Disease
Priority	6
Estimated Cost	TBD
Potential Funding Source(s)	State Funds, Local Funds
Lead Agency or Department	Adams County State Health Center
Implementation Schedule	On-Going
Action 4.D.12	Obtain a generator for auxiliary power to ensure continued access to wells in Biglerville in the event of a long-term power outage.
Community(ies): Biglerville Borough	
Action Type	Structure & Infrastructure Projects
Hazard(s) Addressed	Drought Flood, Flash Flood, Ice Jam Hurricane, Tropical Storm, Nor'easter Tornado, Wind Storm Winter Storm
Priority	31
Estimated Cost	Up to \$25,000
Potential Funding Source(s)	HMGP, PDM, Local Funds
Lead Agency or Department	Biglerville Borough Manager
Implementation Schedule	5 Years

