**Mitigation Strategy 5-Year Mitigation Plan Review**

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| Name: |  | Title: |
| Jurisdiction: |  | Email: |

***Purpose:*** To fulfill the requirement that maintenance of the hazard mitigation plan (HMP) has been completed since the publication of the original or previous version, and to obtain early feedback from the planning team to incorporate into the update process.

***Instructions:*** Complete the *Goal and Objective Review Worksheet* and *Mitigation Action Plan Review Worksheet* on the next pages keeping the following questions in mind:

* Do the goals, objectives, and actions address current and expected conditions?
* Should each goal be carried forward into the updated plan? Should a goal be changed based on current conditions in the community? Should a goal be discontinued, and if so, why?
* What is the status of each action? What progress has been made? Should an action be continued in the updated plan? Should an action be discontinued, and if so, why?
* Has the nature or magnitude of hazard risk changed?
* Are current resources adequate to implement the plan?
* Should additional local resources be committed to address identified hazard threats?
* Are there any issues that have limited the current implementation schedule?
* Has the implementation of identified mitigation actions resulted in expected outcomes?
* Has the Steering Committee measured the effectiveness of completed hazard mitigation projects in terms of specific dollar losses avoided?
* Did the jurisdictions, agencies, and other partners participate in the plan implementation process as proposed?
* Are there other concerns that should be identified?

Before completing the worksheets, the group may wish to discuss the above questions in a round-robin format, using a flip chart. The questions are standard; however, it is important to check the existing HMP maintenance section for additional questions that may need to be considered.

# Goal and Objective Review Worksheet

**Instructions**: Write each goal and objective identified in the existing hazard mitigation plan. Use the comment boxes to provide feedback or to suggest modification of any of the proposed goals or objectives. You may suggest additional objectives below each goal, or new goals and objectives on the last page of this exercise.

| **Goals and Objectives** | **Comments** |
| --- | --- |
| **Goal 1** | Reduce potential injury/death and damage to existing community assets due to floods, flash floods, and ice jams. |  |
| Objective 1.1 | Identify, evaluate, and implement strategies for repetitive loss and severe repetitive loss properties. |
| Objective 1.2 | Provide public outreach/education to decrease the impact of flooding, flash flooding, and ice jam flooding. |
| Objective 1.3 | Address identified data limitation regarding lack of detailed information about individual structures located in the special flood hazard area (SFHA). |
| Objective 1.4 | Complete actions and projects to decrease the impact of flooding and to acquire, elevate, demolish or demolish/reconstruct properties, repetitive loss properties and severe repetitive loss properties. |
| Objective 1.5 | Minimize the financial impact of personal mitigation measures on residents. |
| **Goal 2**  | Reduce potential injury/death and damage to existing community assets due all hazards. |  |
| Objective 2.1 | Identify communities that do not have warning systems and shelters. |
| Objective 2.2 | Implement measures to reduce the likelihood of all natural and human caused hazards. |
| Objective 2.3 | Develop a comprehensive approach to reducing potential injury/damages for critical facilities and vulnerable populace in hazard areas. |
| Objective 2.4 | Evaluate water sources that could be impacted by contamination. |
| Objective 2.5 | Identify key roadways that are adequate to support vehicles transporting hazardous materials. |
| Objective 2.6 | Enhance response capability of county and municipal services. |
| **Goal 3**  | Promote disaster-resistant future development. |  |
| Objective 3.1 | Review and maintain comprehensive plan and encourage municipalities to implement zoning/land use ordinances that avoid high-hazard areas. |
| Objective 3.2 | Encourage municipalities to enforce building codes that provide protection for new construction and substantial renovations from the effects of identified hazards. |
| Objective 3.3 | Provide adequate and consistent enforcement of ordinances and codes within and between jurisdictions. |
| **Goal 4**  | Promote hazard mitigation as a public value in recognition of its importance to the health, safety, and welfare of the population. |  |
| Objective 4.1 | Provide public education to increase awareness of hazards and opportunities for mitigation. |
| Objective 4.2 | Promote partnerships between municipalities and the county to continue to develop a county-wide approach to identifying and implementing mitigation actions. |
| Objective 4.3 | Continue the promotion of disaster resistance in the business community via the hazard mitigation planning initiative. |
| **Goal 5** | Improve response and recovery capabilities. |  |
| Objective 5.1 | Increase awareness by residents (e.g., through public out-reach/education) of actions to take during an emergency. |
| Objective 5.2 | Enhance response capabilities of county and municipal fire, police, and emergency medical services personnel to special populations. |
| Objective 5.3 | Ensure adequate emergency planning is conducted.  |
| **Goal 6** | Protect critical infrastructure in hazard areas. |  |
| Objective 6.1 | Identify the most vulnerable and critical structures and infrastructure due to the effects of natural and human caused hazards. |
| Objective 6.2 | Protect utilities from natural and human caused hazards. |
| Objective 6.3 | Enhance planning and mitigation strategy development for high hazard dams and levees. |

| **Suggested Additional Goals and/or Objectives** | **Comments** |
| --- | --- |
| **Goal** |  |
| **Objective** |  |  |
| **Objective** |  |
| **Objective** |  |

| **Goal** |  |
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| **Objective** |  |  |
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# Mitigation Action Plan Review Worksheet

**Instructions**: List each mitigation action from the existing hazard mitigation plan and identify its status as “No Progress / Unknown,” “In Progress / Not Yet Complete,” “Continuous,” “Completed,” or “Discontinued.” Include review comments for each action.

| **Existing Mitigation Action** | **Status** | **Review Comments** |
| --- | --- | --- |
| **No Progress/ Unknown** | **In Progress/ Not Yet Complete** | **Continuous** | **Completed** | **Discontinued** |
| **Countywide (Multiple Municipalities)** |
| **1.1.1** | Identify existing repetitive loss and severe repetitive loss properties |  |  |  |  |  |  |
| **1.1.2** | Investigate options for mitigating repetitive-loss properties within the floodplain |  |  |  |  |  |  |
| **1.1.3** | Protect natural wetlands that may absorb floodwaters. |  |  |  |  |  |  |
| **1.2.1** | Work with township/borough officials to increase awareness among property owners, including informational mailings to property owners in the special flood hazard area (SFHA), and sponsoring a series of workshops about costs and benefits of:* Acquiring and minimizing the cost of flood insurance coverage
* Property acquisition, relocation, elevation, dry flood proofing, and wet flood proofing.
 |  |  |  |  |  |  |
| **1.3.1** | Obtain information for structures in the areas with the highest rela-tive vulnerability to determine the best property protection methods. The information to be obtained includes:* Lowest-floor elevation
* Number of stories
* Presence of a basement
* Market and/or replacement value
 |  |  |  |  |  |  |
| **1.3.2** | Obtain information for all remain-ing structures in the special flood hazard area (SFHA) to determine the best property protection meth-ods to promote with individual property owners. Techniques for gathering information over time should include developing and im-plementing a program for integrat-ed information “capture” at key points in normal township admin-istrative procedures, including ap-plications for building permits at township/borough offices. |  |  |  |  |  |  |
| **1.3.3** | Apply to PEMA for funding to un-dertake detailed flood studies for county’s high-hazard areas to de-termine base flood elevation (BFE) and a full range of flood- recurrence intervals (50%, 20%, 10%, 4%, 2% and 1% chance events) for use in future refinements of the mitigation plan. |  |  |  |  |  |  |
| **1.4.1** | Engage or collaborate with munici-palities to identify repetitive flood properties that do not qualify as a severe repetitive or repetitive loss properties. |  |  |  |  |  |  |
| **1.4.2** | Elevate structures to above the base flood elevation. |  |  |  |  |  |  |
| **1.4.3** | Encourage regular maintenance on stormwater management structures (culverts, drainage ditches, etc.) and replace any stormwater management structures as needed. |  |  |  |  |  |  |
| **1.4.4** | Raise roadways that routinely flood to above the base flood elevation. |  |  |  |  |  |  |
| **1.4.5** | Upgrade and replace manholes to prevent the release of sewage during a flood. |  |  |  |  |  |  |
| **1.5.1** | Encourage participation of all munic-ipalities in the National Flood Insur-ance Program (NFIP). |  |  |  |  |  |  |
| **2.1.1** | Identify at risk populations with the highest relative vulnerability to all hazards impacting Somerset County |  |  |  |  |  |  |
| **2.1.2** | Conduct qualitative evaluation pro-cess for managing stranded travelers (e.g., temporary shelters). |  |  |  |  |  |  |
| **2.2.1** | Complete a new digitized parcel pro-ject and develop a GIS data layer that would be used to assist with damage assessment and estimation of loss during mitigation efforts. |  |  |  |  |  |  |
| **2.3.1** | Retrofit manufactured homes with anchors or tie-down straps. |  |  |  |  |  |  |
| **2.4.1** | Obtain detailed topographic and planimetric surveys for areas along interstate highways in Somerset County identified as crossing points for tributaries that feed drinking water reservoir(s). Follow-up efforts would include preliminary engi-neering studies to determine earth-work and/or other diversions need-ed to prevent hazardous material spills in these areas from contami-nating drinking water supplies. |  |  |  |  |  |  |
| **2.5.1** | Maintain the county's commodity flow study to identify those roadways most travelled by vehicles transport-ing hazardous materials. |  |  |  |  |  |  |
| **2.5.2** | Perform studies on roadways used to transport hazardous materials to ensure that they are adequate for this purpose. |  |  |  |  |  |  |
| **2.6.1** | Work with Southwestern Regional Counterterrorism Task Force (PA Region 13) to plan and prepare for terrorist activities and all hazards, including training and exercises. |  |  |  |  |  |  |
| **3.1.1** | Ensure that land use, zoning, and related regulations require an ade-quate setback of structures from the edge of wild lands. |  |  |  |  |  |  |
| **3.1.2** | Distribute and promote the inclusion of vulnerability analysis information as part of the periodic plan review to all at the public/private levels. |  |  |  |  |  |  |
| **3.1.3** | Present cost/benefit analysis to townships/boroughs that do not have comprehensive plans and/or zoning/land use ordinances. |  |  |  |  |  |  |
| **3.1.4** | Integrate evaluation of snow removal and emergency access logistics with new development planning. |  |  |  |  |  |  |
| **3.2.1** | Enforce building codes include the use of roofing shingles that are less likely to be blown off of roofs. |  |  |  |  |  |  |
| **3.2.2** | Enforce building codes include the use of fire-resistant materials for structures near wild lands. |  |  |  |  |  |  |
| **3.2.3** | Enhance building codes at the municipal level. |  |  |  |  |  |  |
| **3.2.4** | Create an ordinance requiring all buildings to have a fire break free of brush or trees of at least 100 feet around them in rural areas. |  |  |  |  |  |  |
| **3.3.1** | Provide updated training to municipal building inspectors. |  |  |  |  |  |  |
| **3.3.2** | Work with township/borough officials to increase awareness among mobile homeowners (i.e., informational mailings, workshops) about requirements for proper anchoring for wind protection. |  |  |  |  |  |  |
| **4.1.1** | Continue to distribute quarterly newsletter to members of the public on current EMA projects hazard mitigation efforts. |  |  |  |  |  |  |
| **4.1.2** | Educate residents to follow recommendations made by healthcare professionals to protect themselves from current risks. |  |  |  |  |  |  |
| **4.1.3** | Identify and publicize easily prevent-ed reasons for emergencies (e.g., careless smoking resulting in fires). |  |  |  |  |  |  |
| **4.2.1** | Convene regular meetings of the LPT to discuss issues and progress related to theimplementation of the hazard mitigation plan. |  |  |  |  |  |  |
| **4.3.1** | Renew and expand commitments to hazard mitigation planning among partner organizations through the local planning team. |  |  |  |  |  |  |
| **5.1.1** | The LEPC should work with SARA facility owners and operators to ensure compliance with the emergency off-site response plan. |  |  |  |  |  |  |
| **5.1.2** | Increase awareness by residents of actions to take during an emergency, including sheltering and evacuation procedures. Methods to be used can include public outreach and education. |  |  |  |  |  |  |
| **5.1.3** | Continue to collaborate with local law enforcement and authorities to promote public awareness of the prevention, intervention, and treatment of drug abuse. |  |  |  |  |  |  |
| **5.1.4** | Collaborate with partnering agencies to promote awareness of invasive species (i.e. spotted lantern fly). |  |  |  |  |  |  |
| **5.2.1** | Identify and maintain lists of functional needs populations requiring additional emergency response. |  |  |  |  |  |  |
| **5.2.2** | Evaluate means to enhance response capability for functional needs residents. |  |  |  |  |  |  |
| **5.2.3** | Continue to actively engage with the first responder community through outreach to enhance and secure our local level emergency service capabilities. |  |  |  |  |  |  |
| **5.3.1** | Maintain county and municipal emergency operations plans in accordance with Title 35 requirements. |  |  |  |  |  |  |
| **5.3.2** | Encourage organizations responsible for critical infrastructure to maintain current Continuity of Operations (COOP) plans. |  |  |  |  |  |  |
| **5.3.3** | Ensure that a current emergency plan is in place for each facility that uses, manufactures, or stores hazardous materials. |  |  |  |  |  |  |
| **5.3.4** | Conduct post-disaster community recovery planning. |  |  |  |  |  |  |
| **5.3.5** | Maintain debris management plan. |  |  |  |  |  |  |
| **5.3.6** | Enhance the public safety agency personnel and equipment update system to allow input of data from first responders and public works. |  |  |  |  |  |  |
| **6.1.1** | Investigate options for protecting critical infrastructure impacted by all-hazards. |  |  |  |  |  |  |
| **6.1.2** | Conduct cost-benefit analysis of protection of critical infrastructure. |  |  |  |  |  |  |
| **6.1.3** | Conduct qualitative evaluation process for critical facilities and residents to determine relative vulnerability and gather information for subsequent refinements of this mitigation plan. |  |  |  |  |  |  |
| **6.1.4** | Develop action plan for reducing potential damage and loss of function at identified critical facilities and infrastructure. |  |  |  |  |  |  |
| **6.2.1** | Amend development regulations to require below ground power and telephone transmission lines and bury lines already in existence. |  |  |  |  |  |  |
| **6.3.1** | Review, update, and exercise high hazard dam plans. |  |  |  |  |  |  |
| **6.3.2** | Further examine inundation areas and how to better-inform and protect vulnerable populations. |  |  |  |  |  |  |

**Notes:**

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| *\* The letters associated with the initiative number indicate the lead agency (i.e., Somerset County or municipality).**\*\* Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.**CAFO = Consolidated Animal Feeding Operation**CART = County Animal Response Team**CEO = Code Enforcement Officer**Depts. = Departments**DPW = Department of Public Works**EMA = Emergency Management Agency**EMC = Emergency Management Coordinator**EMS = Emergency Medical Services**FEMA = Federal Emergency Management Agency**FMA = Flood Mitigation Assistance [grant]**FMP = Flood Mitigation Program**FPA = Floodplain Administrator**Hazmat = Hazardous Materials**HMGP = Hazard Mitigation Grant Program**LEPC = Local Emergency Planning Committee**Med. = Medium**NFIP = National Flood Insurance Program**OIE = World Organisation for Animal Health**PA DCED = Pennsylvania Department of Community and Economic Development**PA DCNR = Pennsylvania Department of Conservation and Natural Resources**PDM = Pre-Disaster Mitigation Program**PEMA = Pennsylvania Emergency Management Agency**PennDOT = Pennsylvania Department of Transportation**PSU = Penn State University**RACP = Redevelopment Assistance Capital Program**TIP = Transportation Improvement Program**USDA = United States Department of Agriculture**USPS = United States Postal Service* | *Costs:**These rough estimates should be used where actual project costs cannot reasonably be established at this time:**Low = < $10,000**Medium = $10,000 to $100,000**High = > $100,000**Timeline:**Short Term = 1 to 2 years* *Medium Term = 2 to 5 years**Long Term = 5 years or greater* |