**Hanover Township, Lehigh County Annex**

**Hazard Mitigation Plan Points-of-Contact**

|  |  |
| --- | --- |
| **Primary:** | **Alternate:** |
| Melissa WehrTownship Manager2202 Grove Road610-264-1069mwehr@hanleco.org | Chris Spadaccia Emergency Management Coordinator2202 Grove Road610-264-1069spadacciachris@gmail.com |

**Municipal Profile**

Hanover Township is a suburban township located in the east-central part of Lehigh County, on the border with Northampton County. It encompasses an area of approximately 4.2 square miles and has a population of 1,689 (2010 Census). The township is bordered by; Hanover Township (Northampton County) to the east; Bethlehem to the southeast; Allentown to the south; Whitehall Township and Catasauqua Borough to the west; and Allen and East Allen Townships (both in Northampton County) to the north.

Hanover Township is drained primarily by the Lehigh River, which forms the township’s southwestern border with Whitehall Township. Two smaller tributaries of the Lehigh River cut southwest across the northern part of the township and across the southern border of the township.

Highway 22 crosses the township East-West and interchanges with Airport Road, which extends northeast toward Bath Borough (Northampton County) as State Route 987 and south into Allentown. Other significant local roads include Catasauqua Road, Dauphin Street, Irving Street, Pennsylvania Avenue, Postal Road, Race Street, and Schoenersville Road. Race Street and Schoenersville Road meet State Route 987 in the village of Schoenersville in Northampton County. Hanover Township is also home to the Lehigh Valley International Airport.

**Municipal Participation**

1. Identify municipal stakeholders to be involved in the planning process such as, floodplain administrator, public works, emergency management, engineers, planners, etc., and include their specific role in the process.

|  |  |
| --- | --- |
| Melissa Wehr, Township ManagerRole: Administration | Chris Spadaccia, Emergency Management CoordinatorRole Emergency Management  |
| Joe Fragnito, Maintenance Supervisor Role: Public Works |

*\*please update table as needed*

1. Identify community stakeholders such as; neighborhood groups, religious groups, major employers / businesses, etc., that will be informed and / or involved in the planning process and describe how they will be involved.

B Braun Medical

 Lehigh Valley International Airport

 Lehigh Valley Health Network

 St. Luke’s University Health Network

1. Describe how the public **will be engaged** in the current planning process (examples, newsletters, social media, etc.), **and how they were engaged** since the 2018 Hazard Mitigation Plan.

 Current: Township newsletters (twice / year), Township website, and Facebook

 Past: Same

**Compliance with the National Flood Insurance Program (NFIP)**

| **Topic** | **Identify source of information, if different from the one listed.** | **Additional Comments** |
| --- | --- | --- |
| **1. Staff Resources** |
| Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified? | Community FPA | No |
| Is floodplain management an auxiliary function? | Community FPA | Yes |
| Provide an explanation of NFIP administration services (e.g., permit review, GGIS, education or outreach, inspections, engineering capability) | Community FPA | Township will provide these services |
| What are the barriers to running an effective NFIP program in the community, if any? | Community FPA | None |
| **2. Compliance History** |
| Is the community in good standing with the NFIP? | State NFIP Coordinator, FEMA NFIP Specialist, or community records | Yes |
| Are there any outstanding compliance issues (i.e., current violations)? |  | No |
| When was the most recent Community Assistance Visits (CAV) or Community Assistance Contact (CAC)? |  | Unknown |
| Is a CAV or CAC scheduled or needed? |  | No |
| **3. Regulation** |
| When did the community enter the NFIP? | NFIP Community Status Book | Uncertain |
| Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping? | Community FPA | Paper |
| Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways? | Community FPA | Meet |
| Describe the permitting process | Community FPA, State, FEMA NFIP | Per floodplain ordinance |
| **4. Insurance Summary** |
| How many NFIP policies are in the community?What is the total premium and coverage? | State NFIP Coordinator orFEMA NFIP Specialist | Unknown |
| How many claims have been paid in the community? What is the total amount of paid claims? How many substantial damage claims have there been? | FEMA NFIP or Insurance Specialist | None |
| How many structures are exposed to flood risk within the community? | Community FPA or GIS Analyst | 1 |
| Describe any areas of flood risk with limited NFIP policy coverage | Community FPA or FEMA Insurance Specialist | N/A |
| **5. Community Rating System (CRS)** |
| Does the community participate in CRS? | Community FPA, State, or FEMA NFIP | No |
| If so, what is the community’s CRS Class Ranking? | Flood Insurance Manual (http://www.fema.gov/floodinsurancemanual.gov) | N/A |
| What categories and activities provide CRS points and how can the Class be improved? |  | N/A |
| Does the plan include CRS planning requirements? | Community FPA, FEMA CRS Coordinator, or ISO representative | N/A |

**Community Assets**

Community assets are defined to include anything that is important to the character as well as the function of a community, and can be described in four categories, they are; people, economy, natural environment and built environment. Please identify the community assets and location under each category.

1. **People**
* Concentrations of vulnerable populations such as the elderly, physically or mentally disabled, non-English speaking, and the medically or chemically dependent.

None

* Types of visiting populations where large numbers of people are concentrated such as visitors for special events and students.

 Hanover Township Community Night @ Canal Park

 Lehigh Valley International Airport

1. **Economy**
* Major employers, primary economic sectors such as agriculture and commercial centers where losses would have a severe impact on the community.

Hanover Township has a number of large employers, especially in Lehigh Valley Industrial Park III. In addition, consideration should be given to the Lehigh Valley International Airport and two major shopping centers, Valley Plaza Shopping Center on Catasauqua Road in the Township and Airport Center located off Airport Road in Hanover Township. Examples of large employers in LVIP III include B Braun Medical, Lehigh Valley Health Network Labs, and St. Luke’s Offices.

1. **Natural Environment**
* Those areas / features that can provide protective functions that reduce the magnitude of hazard events such as, wetlands or riparian areas, and other environmental features important to protect.

Canal Park and Lehigh Canal along with Catasauqua Lake will flood initially, thus holding flooding from the highway structure.

1. **Built Environment**
* Existing structures such as, concentrations of buildings that may be more vulnerable to hazards based on location, age, construction type and / or condition of use.

Industrial buildings situated in LVIP II on Race Street and LVIP III situated off Airport Road, as well as the Lehigh Valley International Airport.

* Infrastructure systems such as water and wastewater facilities, power utilities, transportation systems, communication systems, energy pipelines and storage.

The sewer pumps stations, which support the shopping centers, industrial parks and neighboring area, are critical to the Township. There is a natural gas transmission line running through a portion of the Township. The Norfolk Southern railway transverses through the western portion of the Township and a large fiber optic communication line is also in the Township. The Lehigh Valley International Airport’s geographic land area covers more than half of the Township with all flight paths (runways) running over the municipality. Airport Road, Route 22, Schoenersville Road, and Race Street carry a massive amount of tractor-trailer and vehicular traffic daily.

* High potential loss facilities such as, dams, locations that house hazardous materials, military and / or civilian defense installations.

Navy Operational Support Center & Marine Reserves

* Critical facilities such as, hospitals, medical facilities, police and fires stations, emergency operations centers, shelters, schools and airports / heliports.

LVHN Emergi-Center

Lehigh Valley International Airport

Han-Le-Co Voluntary Fire Company No. 1 located on Postal Road

* Cultural / historical resources such as, museums, parks, stadiums, etc.

Canal Park located off Dauphin Drive in the Township, which is part of the National Heritage Corridor

**Capability Assessment**

| **Capability** | * **Regulatory**
* **Tools**
* **Programs**
 | **Status** | **Department /** **Agency** **Responsible** | **Effect on Hazard Loss Reduction:** **-Supports****-Neutral****-Hinders** | **Change since 2018 Plan?****+ Positive****- Negative** | **Has the 2018 Plan been integrated into the Regulatory Tool/Program? If so, how?** | **How can these capabilities be expanded and improved to reduce risk?** | **Additional Comments** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **In Place** | **Date Adopted or Updated** | **Under Development** |
| **1. Planning & Regulatory** | Comprehensive Plan |  | 19742003 Update | X | Administration & Engineering | S | + | N/A | OngoingConsideration is pursued | Completion in Spring 2023 |
| Capital Improvement Plan | X | Yearly, Since 1976 |  | Administration & Engineering | S | + | N/A | OngoingConsideration is pursued |  |
| Economic Development Plan | N/A |  |  |  |  |  |  |  |  |
| Continuity of Operations Plan | X | 2021 |  | Emergency Management | S | + |  | Completed |  |
| Stormwater Management Plan / Ordinance | X | 2022 |  | Engineering | S | + | N/A | N/A |  |
| Open Space Management Plan (or Parks/Rec., Greenways Plan) | N/A |  |  |  |  |  |  |  |  |
| Natural Resource Protection Plan | N/A |  |  |  |  |  |  |  |  |
| Transportation Plan | N/A |  |  |  |  |  |  |  |  |
| Historic Preservation Plan | N/A |  |  |  |  |  |  |  |  |
| Floodplain Management Plan | X | 2021 |  | Administration & Engineering | S | + | No comments | No comments |  |
| Farmland Preservation | N/A |  |  |  |  |  |  |  |  |
| Evacuation Plan | X | 2021 |  | Administration | S | + | N/A | N/A | 2023 update |
| Disaster Recovery Plan | N/A |  |  |  |  |  |  |  |  |
| Hazard Mitigation Plan | X | 2018 |  | Administration | S | + | N/A | N/A |  |
| Emergency Operations Plan | X | 2021 |  | Administration | S | + | N/A | N/A |  |
| Zoning Regulations | X | 2022 |  | Administration | S | + | N/A | N/A |  |
| Floodplain Regulations | X | 2017 |  | Administration & Engineering | S | + | N/A | N/A |  |
| NFIP Participation | X | 4/2012 |  | Administration & Engineering | S | + | N/A | N/A |  |
| Building Code | X | 2022 |  | Administration | S | + | N/A | N/A |  |
| Fire Code | X | 2009 |  | Administration | S | + | N/A | N/A |  |
| Other |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Capability** | * **Staff**
* **Personnel**
* **Resources**
 | **Yes** | **No** | **Department / Agency** | **Change since 2018 Plan?****+ Positive****- Negative** | **How can these capabilities be expanded and improved to reduce risk?** | **Additional Comments** |
| **2. Administrative & Technology** | Planners (with land use / land development knowledge) | X |  | Township Engineer | Np |  |  |
| Planners or engineers (with natural and / or human-caused hazards knowledge) | X |  | Township Engineer | No |  |  |
| Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors) | X |  | Township Engineer | No |  |  |
| Emergency Manager | X |  | Administration | No |  |  |
| Floodplain administrator / manager | X |  | 3rd Party | No |  |  |
| Land surveyors | X |  | Township Engineer |  |  |  |
| Staff familiar with the hazards of the community | X |  | All Staff (Administration, Engineering, Public Works) |  |  |  |
| Personnel skilled in Geographical Information Systems (GIS) and / or FEMA’s HAZUS program | X |  | Public Works/Engineering |  |  |  |
| Grant writers or fiscal staff to handle large / complex grants | X |  | Township Manager |  |  |  |
| Other |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Capability** | * **Staff**
* **Personnel**
* **Resources**
 | **Yes** | **No** | **Department / Agency** | **Change since 2018 Plan?****+ Positive****- Negative** | **How can these capabilities be expanded and improved to reduce risk?** | **Additional Comments** |
| **3. Financial Resources** | Capital improvement programming | X |  | Township Manager | N/A | N/A |  |
| Community Development Block Grants (CDBG) | X |  | Township Manager | N/A | N/A |  |
| Special purposes taxes |  | X |  |  |  |  |
| Gas / Electricity utility fees |  | X |  |  |  |  |
| Water / Sewer fees | X |  | Township Manager |  |  |  |
| Stormwater utility fees |  | X | Engineering | No |  |  |
| Development impact fees |  | X |  |  |  |  |
| General obligation, revenue, and / or special tax bonds |  | X |  |  |  |  |
| Partnering arrangements or intergovernmental agreements | X |  | Township Manager | No |  |  |
| Other |  |  |  |  |  |  |
| **4. Education & Outreach** | Firewise Communities Certification |  | X |  |  |  |  |
| StormReady Certification |  | X |  |  |  |  |
| Natural disaster or safety-related school programs |  | X |  |  |  |  |
| Ongoing public education or information programs such as, responsible water use, fire safety, household preparedness, and environmental education.  | X |  | Emergency Management | No | No |  |
| Public-private partnership initiatives addressing disaster related issues.  |  | X |  |  |  |  |
| Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.  |  | X |  |  |  |  |
| Other |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Capability** |  | **Degree of Capability** | **Change since the 2018 Hazard Mitigation Plan?****If so, how?** | **Additional Comments** |
| **Limited** | **Moderate** | **High** |
| **5. Self – Assessment** | Planning and Regulatory |  |  | X | No |  |
| Administrative and Technical |  |  | X | No |  |
| Financial |  |  | X | No |  |
| Education and Outreach |  | X |  | N/A |  |

**Known or Anticipated Future Development / Redevelopment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Development /** **Property Name** | **Type of Development** | **Number of Structures** | **Location** | **Known Hazard Zone** | **Description / Status** |
| Rockefeller Group | 456,000 sq ft Warehouse | 1 | Willowbrook Rd |  | Building |

**Natural & Non-Natural Event History Specific to Hanover Township**

|  |  |  |
| --- | --- | --- |
| **Type of Event and Date(s)** | **FEMA Disaster #****(if applicable)** | **Local Damage(s) or Loss(es)** |
| Winter Storm Jonas – 1/2016 | DR-4267-PA | Exact amount not available at this time |
| Pennsylvania COVID-19 Pandemic – 1/2020 | DR-4506-PA | Emergency Protective measures to combat COVID-19 Pandemic. |
| Tropical Storm Isaias |  | Sinkhole in Chestnut Grove and flooding of roadways |

**2018 Municipal Action Plan Status**

| **Existing Mitigation Action****(from 2018 Hazard Mitigation Plan)** | **Status** | **Additional Comments** |
| --- | --- | --- |
| **No Progress /** **Unknown** | **In Progress** | **Continuous** | **Completed** | **Discontinued** |
| **1** | Continue to monitor flood vulnerability of the limited number of structures located in the NFIP SFHA. If flood vulnerability appears to increase, work with property owners to mitigate their properties. Specifically include these property owners in public education and outreach efforts (see following initiative). |  |  | X |  |  | Monitor flood vulnerability |
| **2** | Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives 2-8 (below).  |  |  | X |  |  | Maintain NFIP compliance |
| **3** | Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding. |  |  | X |  |  | Public education and outreach |
| **4** | Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements) and sinkhole risk (e.g. carbonate bedrock standards).  | X |  |  |  |  | Higher regulatory standards |
| **5** | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. | X |  |  |  |  | Community assistance visit |
| **6** | Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM and/or pursue relevant continuing education training such as FEMA Benefit-Cost Analysis. |  |  |  | X |  | NFIP FPA become a certified floodplain manager.Action carried through to the 2018 Action Plan. |
| **7** | Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community’s current compliance with the NFIP is established. | X |  |  |  |  | Join Community Rating System |
| **8** | Obtain and archive elevation certificates for NFIP compliance. | X |  |  |  |  | Archive elevation certificates |
| **9** | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0. |  |  | X |  |  | Support plan maintenance and update |
| **10** | Complete the Ongoing updates of the Comprehensive Emergency Management Plans. |  |  | X |  |  | Update CEMP |
| **11** | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. |  |  |  | X |  | Enhance mutual aid agreements.Action carried through to the 2018 Action Plan. |
| **12** | Develop and maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record-keeping. |  |  |  | X |  | Identify post disaster capabilities.Action carried through to the 2018 Action Plan. |
| **13** | Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers). |  |  | X |  |  | Develop post-disaster capabilities |
| **14** | Coordinate with the County Emergency Management Agency and PA Department of Health, which is responsible for setting up points of distribution and providers for immunizations. |  |  | X |  |  |  |
| **15** | Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks. |  |  | X |  |  |  |
| **16** | Devise a municipal continuity of operations plan to keep essential services running in the event that a significant portion of the workforce is affected. |  |  | X |  |  |  |
| **17** | Devise a public education and outreach plan regarding disease prevention.  |  |  | X |  |  |  |
| **18** | Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures. |  |  | X |  |  |  |
| **19** | Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form. |  |  | X |  |  |  |
| **20** | Provide training and education for first responders to ensure effective emergency care. |  |  | X |  |  |  |
| **21** | Provide education and outreach, especially in K-12, regarding drug abuse prevention. |  |  | X |  |  |  |

**Notes:**

1. Actions not carried through to the 2023 Action Plan are so noted.
2. To maintain National Flood Insurance Program (NFIP) compliance, actions related to the NFIP were carried through to the 2023 Action Plan even if identified by the municipality as completed.

**2023 Mitigation Action Plan**

| **Mitigation Action** | **Regional Action Category** | **Mitigation Technique Category** | **Hazard(s) Addressed** | **Priority****(H / M / L)** | **Estimated Cost** | **Potential Funding** | **Lead Agency / Department** | **Implementation Schedule** | **Applies to New and / or Existing Structures** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | Continue to monitor flood vulnerability of the limited number of structures located in the NFIP SFHA. If flood vulnerability appears to increase, work with property owners to mitigate their properties. Specifically include these property owners in public education and outreach efforts (see following initiative). | 4 | Structure andInfrastructure | Flood | High | Low (monitoring flood vulnerability, Outreach). High- mitigation of structures | MunicipalBudget(monitoring, outreach);FEMA HMA grants for mitigation | Municipality(via MunicipalEngineer/NFIP FloodplainAdministrator) with support from PEMA,ISO FEMA | Ongoing | Existing |
| **2** | Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives 2-8 (below).  | 3 | Local plans & Regulations | Flood | High | Medium | Municipal Budget | Municipality(via MunicipalEngineer/NFIP FloodplainAdministrator) with support from PEMA,ISO FEMA | Ongoing | New & Existing |
| **3** | Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding. | 4 | Education & Awareness | All Hazards | High | Low-Medium | Municipal Budget | Municipality with support from Planning Partners, PEMA, FEMA | Short-term | N/A |
| **4** | Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements) and sinkhole risk (e.g. carbonate bedrock standards).  | 5 | Education & Awareness | Flood, Subsidence/Sinkholes | High | Low | Municipal Budget | Municipality(via MunicipalEngineer/NFIP FloodplainAdministrator) with support from PEMA, FEMA.LVPC forCarbonateBedrockStandard model ordinance | Short-term | New &Existing |
| **5** | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. | 3 | Local plans & Regulations | Flood | High | Low | Municipal Budget | NFIPFloodplainAdministrator with support from PADEP, PEMA, FEMA | Short-term | N/A |
| **6** | Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM and/or pursue relevant continuing education training such as FEMA Benefit-Cost Analysis. | 6 | Local plans & Regulations | Flood | Medium | Low | Municipal Budget | NFIP Floodplain Administrator | Short-term (depending upon funding) | N/A |
| **7** | Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community’s current compliance with the NFIP is established. | 7 | Local Plans andRegulations | Flood | High | Low | Municipal Budget | NFIP Administrator with support from PA DEP, PEMA, FEMA | Short-term (depending upon funding) | N/A |
| **8** | Obtain and archive elevation certificates for NFIP compliance. | 8 | Public Education and Awareness | Flood | Low | Low | Municipal Budget | NFIP Floodplain Administrator | Ongoing | N/A |
| **9** | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0. | 9 | All Categories | All Hazards | High | Low-High (for 5 year update) | Municipal Budget, possibly FEMA Mitigation Grant Funding for 5-year update | Municipality(via mitigation planningpoint ofcontacts) withsupport fromPlanningPartners(through their Points ofContact),PEMA. | Ongoing | New & Existing |
| **10** | Complete the Ongoing updates of the Comprehensive Emergency Management Plans. | 10 | Local plans & Regulations | All Hazards | Medium | Low | Municipal Budget | Municipality with support from PEMA | Ongoing | New & Existing |
| **11** | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. | 11 | All Categories | All Hazards | Medium | Low | Municipal Budget | Muncipality w/support from surrounding municipalities and County | Ongoing | New & Existing |
| **12** | Develop and maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record-keeping. | 12 | Education & Awareness | All Hazards | Low | Medium | Municipal Budget | Municipality with support from County, PEMA, FEMA | Short-term | N/A |
| **13** | Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers). | 13 | Education & Awareness | All Hazards | Medium | Medium | Municipal budget,FEMA HMAGrantPrograms | Municipality with support from County, PEMA | Short-term (depending upon funding) | N/A |
| **14** | Coordinate with the County Emergency Management Agency and PA Department of Health, which is responsible for setting up points of distribution and providers for immunizations. | 11 | Local plans & Regulations | Pandemic and Infectious Disease | Medium | Low | Municipal Budget | Municipality working with County EMA and PA Department of Health | Ongoing | N/A |
| **15** | Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks. | 10 | Local plans & Regulations | Pandemic and Infectious Disease | Medium | Low | Municipal Budget | Municipality | Short-term | N/A |
| **16** | Devise a municipal continuity of operations plan to keep essential services running in the event that a significant portion of the workforce is affected. | 10 | Local plans & Regulations | Pandemic and Infectious Disease | Medium | Low | Municipal Budget | Municipality | Ongoing | N/A |
| **17** | Devise a public education and outreach plan regarding disease prevention.  | 4 | Education & Awareness | Pandemic and Infectious Disease | High | Low | Municipal Budget | Municipality | Ongoing  | N/A |
| **18** | Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures. | 4 | Education & Awareness | Invasive Species | High | Low | Municipal Budget | Municipality | Ongoing | N/A |
| **19** | Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form. | 27 | Education & Awareness | Invasive Species | High | Low | Municipal Budget | Municipality | Short-term | N/A |
| **20** | Provide training and education for first responders to ensure effective emergency care. | 27 | Local plans & Regulations | Drug Overdose Crisis | High | Low | Municipal Budget | Municipality | Ongoing | N/A |
| **21** | Provide education and outreach, especially in K-12, regarding drug abuse prevention. | 4 | Education & Awareness | Drug Overdose Crisis | High | Low  | Municipal Budget | Municipality/School District | Ongoing | N/A |

**Notes:**

***Estimated Costs:***

* Where actual project costs have been reasonable estimated: Low = < $10,000; Medium = $10,000 to $100,000; High = > $100,000;
* Where actual project costs cannot reasonably be established at this time:

 **Low** = Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.

 **Medium** = Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment,

 or the cost of the project would have to be spread over multiple years.

 **High** = Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing

 funding levels are not adequate to cover the costs of the proposed project.

***Potential Funding (FEMA HMA):***

* **BRIC =** Building Resilient Infrastructure andCommunities
* **FMA** = Flood Mitigation Assistance Grant Program
* **HMGP** = Hazard Mitigation Grant Program
* **HSGP** = Homeland Security Grant Program
* **EMPG** = Emergency Management Performance Grant

***Implementation Schedule:***

* **Short Term** = 1 to 5 years
* **Long Term** = 5 years or greater
* **DOF** = Depending on Funding

***Applies to New and/or Existing Structures:***

* **N/A** = Not Applicable